



safety glazing certification council

July 1, 2016

certified products directory
safety glazing material used in buildings
visit our website @ sgcc.org

SGCC® 2016 Certification Meeting Announcement

Toronto, ON

October 13-14, 2016



Sheraton Toronto Airport Hotel & Conference Centre

801 Dixon Road

Toronto, Ontario M9W 1J5

Direct Hotel Phone: 1-416-675-6100

Reservations Phone: 1-866-932-7058

Meeting Schedule

Wednesday, October 12, 2016

6:30-8:30pm SGCC® Board of Directors Dinner (Location TBD) *Board and Guests Only

Thursday, October 13, 2016

7:30-8:00 Light breakfast *Board Members Only

8:00-12:00 SGCC® Board of Directors Meeting & Lunch (Macintosh Room) *Board Members Only

1:00-5:00 SGCC® Certification Committee Meeting (Macintosh Room)

5:00-5:15 SGCC® Participants Meeting (Macintosh Room)

6:00-7:00 Reception (Private Section of Olio Restaurant)

Friday, October 14, 2016

7:30-8:00 Light breakfast provided

8:00-12:00 SGCC® Certification Committee Meeting (Macintosh Room)

Hotel reservations can be made through Sheraton Reservations at 1-866-932-7058 under the "SGCC Meeting" room block. A traditional room is \$169 plus tax Canadian rate per night (est. \$131 US dollars) with options for room upgrades available at an extra cost. Registration for the meeting must be completed by September 12, 2016. Please RSVP with Kelly Jenness-Dalaba kdalaba@amscert.com to confirm your attendance. If you have any questions or experience any difficulties making reservations please contact us at 315-646-2234 Ext. 201

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Safety Glazing Certification Council Certified Products Directory (CPD)

Certification Program for safety glazing materials found to be in compliance with one or more of the following specifications:

"American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test: ANSI Z97.1-2015"

Copies of ANSI Z97.1-2015 may be obtained by calling (212) 642-4900, writing the following address or visiting the following website:

American National Standards Institute
11 W 42nd St., #13th Fl
New York, NY 10036-8002
<http://asc-z97-store.myshopify.com/collections/all>

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"Consumer Products Safety Commission Safety Standard for Architectural Glazing Materials - at Title 16, Part 1201 of the Code of Federal Regulations: 16 CFR 1201"

Copies of 16 CFR 1201 may be obtained by calling (202) 512-1800, writing the following address or visiting the following website:

Superintendent of Documents
PO Box 371954
Pittsburg, PA 15250-7954
www.access.gpo.gov

SGCC "Record of Compliance Testing" to support a manufacturer's CPSC Certificate of Compliance Testing may be obtained, when authorized by the SGCC licensee, at

<http://www.sgcc.org/Compliance-Testing.aspx>

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"National Standard of Canada - Tempered or Laminated Safety Glass CAN/CGSB 12.1-M90"

Copies of CAN/CGSB 12.1 may be obtained by calling (613) 238-3222, writing the following address or visiting the following website:

The Secretary  
Canadian General Standard Board  
Ottawa, Canada K1A 1G6  
[http://www.techstreet.com/standards/can-cgsb-12-1-m90?product\\_id=10492](http://www.techstreet.com/standards/can-cgsb-12-1-m90?product_id=10492)

Additional copies of this Certified Products Directory may be obtained by contacting the SGCC® office or by going to our website for a PDF copy

PO Box 730  
205 W. Main Street  
Sackets Harbor, NY 13685  
Phone: (315) 646-2234 Fax (315) 646-2297  
[staff@amscert.com](mailto:staff@amscert.com)  
Or visit our website @ [www.sgcc.org](http://www.sgcc.org)

SGCC® information and guidelines are included in the twice per year printing of the Certified Products Directory, or are available from SGCC® upon request. Re-printing of this information in any other manual, material or document without the written permission of SGCC® is in conflict with the desire of SGCC®, and should not be interpreted as being endorsed by or affiliated with SGCC®.

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**~ MEETINGS OF THE CERTIFICATION COMMITTEE ~**

The Certification Committee of the Safety Glazing Certification Council meets annually. Minutes of these meetings may be obtained by writing to the Administrative Manager of the Safety Glazing Certification Council (SGCC®) or by visiting the SGCC website at [www.sgcc.org](http://www.sgcc.org)

Certification in this directory is current as of the date of issue, however, products may be certified or have certification removed from time to time. For the most current information, please contact the Administrative Manager of SGCC® or visit the SGCC website at [www.sgcc.org](http://www.sgcc.org)

Any questions, comments, or requests for copies of this directory should be directed to the Administrative Manager of the Safety Glazing Certification Council:

**~ ADMINISTRATION ~**

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E-mail: [staff@amscert.com](mailto:staff@amscert.com)  
Website: [www.sgcc.org](http://www.sgcc.org)

**~ADMINISTRATIVE STAFF~**

|                                         |                                                |
|-----------------------------------------|------------------------------------------------|
| John G. Kent, Administrative Manager    | Kelly Jenness-Dalaba, Administrative Assistant |
| Katrina Stafford, Program Manager       | Sara Connor, Administrative Assistant          |
| Brandy Redder, Administrative Assistant |                                                |

**~ ROSTER ~**

**~ SGCC® BOARD OF DIRECTORS ~**

**~ SGCC® OFFICERS ~**

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| President      | Mr. Peter Weismantle |
| Vice President | Mr. Richard Paschel  |
| Secretary      | Mrs. June Willcott   |
| Treasurer      | Ms. Elaine S Rodman  |

**~ REPRESENTING PUBLIC INTEREST ~**

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July 1, 2016

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Phone: (423) 229-7222

~ Honorary Non-Voting Lifetime Member ~  
Mr. Norman Nitschke

**~ COMMUNICATIONS ~**

In all matters concerning the administration and implementation of the SGCC® certification program, correspondence may be directed to any of the following:

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SGCC® Certification Committee  
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**~ FINANCIAL AUDITORS ~**

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**SGCC Certification Committee**

| <b>Licensee</b>                                  | <b>Primary Member</b> | <b>First Alternate</b> | <b>Second Alternate</b> |
|--------------------------------------------------|-----------------------|------------------------|-------------------------|
| AAG-AI Abbar Architectural Glass                 | Jean Lelievre         | Ezhilenth Narayanan    |                         |
| AGC Flat Glass North America                     | Mark B. Cody          | Jon Hughes             |                         |
| AGNORA (Architectural Glass North America)       | Jeff Wilkins          |                        |                         |
| Aldora Aluminum and Glass Products, Inc.         | Manny Valladares      |                        |                         |
| All Team Glass & Mirror, Ltd.                    | Lee Timoll            | Joseph Montiano        |                         |
| Allglass Tempering Inc.                          | Mariusz Lojowski      |                        |                         |
| Alumana Industries                               | Rey John Elape        |                        |                         |
| Aluminum Technology Auxiliary Industries         | Thampi Narayanan      |                        |                         |
| American Insulated Glass Inc.                    | Rick Freeman          |                        |                         |
| American Shower Door                             | Tom Hori              |                        |                         |
| Amsco Windows                                    | Joe Jonely            |                        |                         |
| Anthony International                            | Matt Rolek            | Don Sokol              |                         |
| Architectural Glass Products, LLC.               | Sharon Gambill        |                        |                         |
| Arlene Stained Glass & Door                      | Son Nguyen            |                        |                         |
| Ascent Glass Products (Zhong Shan) Limited       | Yong Jian Huang       |                        |                         |
| ATI Windows                                      | Stephen Schwartz      |                        |                         |
| ATN Holding Inc.                                 | Rey Nea               |                        |                         |
| Avic Sanxin Co, Ltd                              | Wang Jinlin           |                        |                         |
| Basco Engineered Products                        | Dale Schmidt          | Gary Brown             |                         |
| Beijing Wuhua Tianbao Glass Co.                  | Jesse                 |                        |                         |
| Bendheim Wall Systems                            | Robert Jayson         |                        |                         |
| Berkowitz J. E., LP                              | Jim Stinsman          |                        |                         |
| Best Deal Millworks                              | Tam Van Le            |                        |                         |
| Blue Star Glass Inc.                             | Maureen Poole         |                        |                         |
| Bronco Industries, Inc.                          | Bronson Lam           |                        |                         |
| Cameron Glass, Inc.                              | John Alajaji          | Troy Gillion           |                         |
| Cardinal IG                                      | Bernie Herron         | Rob Grommesh           | Oak Moser               |
| Cardinal Tempering                               | Greg Abrams           |                        |                         |
| Carey Glass                                      | Michael Carew         |                        |                         |
| Cat-I Manufacturing, Inc.                        | Ryan O'Connell        |                        |                         |
| Changshu Hard Glass Co., Ltd.                    | Zinger Yu             |                        |                         |
| Changshu Weier Glass Products Co. Ltd.           | Denise Weier          |                        |                         |
| Changshu Xingfu Glass Building Material Co., LTD | Zhong Chun            |                        |                         |
| Changshu ZhongCheng Building Materials Co., Ltd. | Denise Lu             |                        |                         |
| Changshu Zhouxing Glass Co. Ltd.                 | Xiaodong Qian         |                        |                         |
| Chicago Tempered Glass, Inc.                     | Adam Kaczynski        |                        |                         |
| Clarus Glassboards                               | Matt Hoelzl           |                        |                         |
| Classy Glass Specialties Co., Ltd                | Hang Hongmei          |                        |                         |
| ClearEdge Glass                                  | Brian LaBorde         |                        |                         |
| Cleer Vision Tempered Glass                      | Joseph Santelli       |                        |                         |
| Clinton Glass Company                            | Gregory Stowell       |                        |                         |
| Columbia Commercial Bldg Prod.                   | Brian Baldridge       | Steve Burns            |                         |
| Commercial Insulating Glass Co.                  | Jeff Winsler          |                        |                         |
| Consolidated Armor Products, LLC                 | Paul Sivertson        |                        |                         |
| Consolidated Glass Corp.                         | Carl Carmen           | Shane Merryman         | Louis Merryman          |
| Contour Industries, Inc.                         | Lee Mulkey            | David Tomlinson        |                         |
| Contract Glass                                   | Bill Crawford         |                        |                         |
| Contractors Wardrobe                             | Jack Violante         |                        |                         |
| Coral Industries Glass Division                  | Patrick Conner        |                        |                         |
| Cristec Vipla SL                                 | Jaume Planes Olives   |                        |                         |
| Cuda Glass & Metals                              | Larry Abramowski      |                        |                         |

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| <b>Licensee</b>                                 | <b>Primary Member</b> | <b>First Alternate</b> | <b>Second Alternate</b> |
|-------------------------------------------------|-----------------------|------------------------|-------------------------|
| Custom Glass Products Inc.                      | Eric Reeder           |                        |                         |
| D3 Glass, LLC                                   | Doug Daubmann         |                        |                         |
| Dalian Huaying Glass Limited Liability Co.      | Becky Feng            |                        |                         |
| Dallas Flat Glass Distributors, Inc.            | Linda Jo Holman       |                        |                         |
| DDG Glass Manufacturing SDN BHD                 | Paul Nicholas         |                        |                         |
| Denver Glass Interiors, Inc.                    | David Uhey            |                        |                         |
| Deqing Sanxing Plastic Chemical Co. Ltd.        | Yang Min              |                        |                         |
| Diamond Sea Glaze                               | Mark Chesley          |                        |                         |
| Dillmeier Enterprise, Inc.                      | Cody Tran             |                        |                         |
| Dolphin Glass Specialists, LLC                  | Jose Prieto           |                        |                         |
| DongGuan CSG Architectural Glass Co., Ltd.      | Yu GuangHui           |                        |                         |
| Dongguan Dongfa Glass Product Co., Ltd          | Shenwen Li            |                        |                         |
| Dongguan Trillion Aluminum Glass Co., Ltd       | David Chia            |                        |                         |
| Downey Glass Industries, LLC                    | Hugh Higgins          |                        |                         |
| Eckelt Glas GmbH                                | Christian Eckelt      |                        |                         |
| EFCO Corporation                                | Mark Crane            |                        |                         |
| EFI                                             | Kenny McCutcheon      |                        |                         |
| Engineered Glass Products, L.L.C.               | Lurania Rollins       |                        |                         |
| Fairis C.A.                                     | Jorge Jaramillo       |                        |                         |
| Flat Glass Distributors, Inc.                   | Thomas Cruz           |                        |                         |
| Flat Glass Group Co., Ltd.                      | David Wei             | Li Chunpeng            |                         |
| Foshan NanHai Gangsheng Tempered Glass Factor   | Grace Chow            |                        |                         |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. | Zhiming Zeng          |                        |                         |
| Fujian Xihe Sanitary Ware Technology Co., Ltd   | Hunter Hao            |                        |                         |
| Future Architectural Glass LLC                  | Senaka Bandusena      |                        |                         |
| Galaxy Glass & Stone                            | Eugene Negrin         | John O'Keefe           |                         |
| Garibaldi Glass Ind. Inc.                       | Nick Meissner         |                        |                         |
| General Glass                                   | Greg Bakken           |                        |                         |
| GGI Glass Distributors Corp.                    | Bud Hudgins           | David S. Balik         |                         |
| Glas Works, Inc.                                | Salva Sorka           |                        |                         |
| Glass Design of Miami, Inc.                     | Ernesto Garcia        |                        |                         |
| Glass Dynamics, Inc.                            | Conrad Lankford       |                        |                         |
| Glass Enterprises Inc.                          | Joshua Burg           |                        |                         |
| GlassFab Tempering Services, Inc.               | Brian Frea            |                        |                         |
| Glasshape NA L.P.                               | Brian Brunette        |                        |                         |
| Glasswerks LA, Inc.                             | Robert Mastrapa       |                        |                         |
| Glaz-Tech Industries, Inc.                      | Bill Folino           |                        |                         |
| Glenny Glass Co.                                | Braxton Smith         |                        |                         |
| Global Security Glazing                         | Mark Johnson          |                        |                         |
| Goldray Industries Ltd.                         | Cathie Saroka         | Mike Saroka            |                         |
| Guangdong Golden Glass Technologies Limited     | Wu Congzhen           |                        |                         |
| Guardian Fabrication, Inc. - Webster            | Wayne Griffin         | Dave Cooper            | Mitch Edwards           |
| Guardian IG LLC                                 | Wayne Griffin         | Dave Cooper            | Mitch Edwards           |
| Gulf Glass Industries, Co. LTD                  | Samih Fatayerji       |                        |                         |
| Huahui Glass (China) Co., LD                    | Dong Shui Huang       |                        |                         |
| Industrial Tempering Glass                      | Alexander Weinberger  |                        |                         |
| Inkan Ltd                                       | Kevin Duke            |                        |                         |
| Innovative Glass of America, Inc.               | Derek Spears          |                        |                         |
| Insulite Glass Co., Inc.                        | Larry Vasholz         |                        |                         |
| Integral Seal Mfg. Inc.                         | Ben Nayot             |                        |                         |
| Interglass Corp                                 | Miguel Juliao         |                        |                         |



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|-----------------------------------------------------|------------------------|------------------------|-------------------------|
| Intex Glass (Xiamen) Co., Ltd.                      | Chris Snyder           |                        |                         |
| Intigral                                            | Mark Hutchinson        |                        |                         |
| Jiangmen Ligo Glass Manufacture Co., Ltd.           | Denis Xu               |                        |                         |
| Jiangyin Mingyang Glass Production                  | Mr. Guo                |                        |                         |
| Jiaxing Joinbath Corporation                        | Mr. Chuanping Zhang    |                        |                         |
| Jin Yao Chang Tempered Glass Co., Ltd               | Steven Shang           |                        |                         |
| JM Glass                                            | Mayreni Morales        | Jose Morales           |                         |
| JYC Glass Co. Ltd.                                  | Li Xiang Sheng         |                        |                         |
| Kensington Glass Arts                               | David Stone            |                        |                         |
| Kibing Special Glass Zhangzhou Co., Ltd.            | Helen Chang            |                        |                         |
| Kohler Company                                      | Matt Wright            | Doug Glisson           | Buddy Thompson          |
| Lamiver Inc.                                        | Edgar Cormier          | Chantel Theriault      |                         |
| Louisville Plate Glass                              | Bill Stone             |                        |                         |
| M Industria S.A. DE C.V.                            | Mauricio Millet Medina | Juan Polanco           | Ricardo Tonueyo         |
| M&M Tempering Inc.                                  | Joseph L. Stevens      |                        |                         |
| Maryland Glass & Mirror                             | Matthew Dalbke         |                        |                         |
| McGrory Glass                                       | Gary McGrory           |                        |                         |
| Mega Tempering                                      | Ioannis Mariollis      |                        |                         |
| Mercer Glass Fab LLC                                | Thomas Wenczel         |                        |                         |
| Milgard Tempering                                   | Oscar Alacon           | Eric Yarbrough         |                         |
| Nashville Tempered Glass Corp.                      | Bernard Boussaauh      | Richard Paschel        |                         |
| New Angle Beveling                                  | Marc Martell           |                        |                         |
| New Century Glass & Aluminum LLC                    | Jason Cao              |                        |                         |
| Ningbo XinShuGuang Safety Glass Limited Co., Ltd.   | Luo Feng               |                        |                         |
| NY Tempering LLC                                    | Haidong Weng           |                        |                         |
| Oldcastle BuildingEnvelope®                         | Rick Wright            | Robert Williams        |                         |
| Paragon Tempered Glass                              | T. Copsey              |                        |                         |
| Patio Enclosures                                    | Jack Garforth          | Craig Cox              |                         |
| Pennsylvania Insulating Glass                       | Tim Wilkins            |                        |                         |
| Perficom S.A. DE C.V.                               | Enrique Presa          |                        |                         |
| PFG Glass Industries                                | Steve Nielsen          |                        |                         |
| PG Building Glass Processing                        | Graham Cranswick       | Andrew De Jager        |                         |
| PGT Industries                                      | Rod Hershberger        |                        |                         |
| Phoenicia Flat Glass Industries                     | Mario Resch            |                        |                         |
| Poma Glass & Specialty Windows Inc. dba AGC Gla     | Mark Cody              | Dennis Ervin           |                         |
| PPG Inds. Inc.                                      | Paul W. Bush           | Wayne Boor             | Kevin Ramus             |
| Prelco Inc.                                         | Stephane Mercier       |                        |                         |
| PRL Glass Systems                                   | Ruben Gallegos         |                        |                         |
| Productos De Valor Agregado en Cristal S.A. de C.V. | Jaime Guzman Salazar   |                        |                         |
| Produits Verrier International Inc.                 | Victor Scherer         |                        |                         |
| PT Abebersa Pratama                                 | Mahud Malim            |                        |                         |
| Pulp Studio Inc.                                    | Bernard Lax            |                        |                         |
| Qingdao Apis Glass Industries Co. Ltd.              | Henry Hao              |                        |                         |
| Qingdao Jinjing Co., Ltd.                           | Mark Wang              |                        |                         |
| Qingdao Laurel Enterprise Co., Ltd.                 | Bruce Jia              |                        |                         |
| Qinhuangdao Ampac Building Products Co., Ltd.       | Gwang H. Park          |                        |                         |
| Qinhuangdao Dawei Glass Products Co. Ltd.           | Cui Songwu             |                        |                         |
| Qinhuangdao Detai Tempered Glass Co., Ltd.          | Yijing Wang            |                        |                         |
| Qinhuangdao Jingxin Glass Co., Ltd.                 | Dongsheng Yan          |                        |                         |
| Qinhuangdao Kunping Safety Glass Co. Ltd.           | Zhao Ping-Wang         |                        |                         |
| Qinhuangdao Mingjingyuan Safety Technology Tech     | Gavin Pan              |                        |                         |

July 1, 2016

***SGCC Certification Committee***

| <b>Licensee</b>                                    | <b>Primary Member</b>    | <b>First Alternate</b> | <b>Second Alternate</b> |
|----------------------------------------------------|--------------------------|------------------------|-------------------------|
| Qinhuangdao Qicaishi                               | Qifei Chen               |                        |                         |
| QinHuangDao Tianrui Tempered Technology Glass      | Zhu YanJun               | Cheng Yi Bin           |                         |
| Quaker Window Products, Inc.                       | Curtis Weavers           |                        |                         |
| Quality Glass & Mirror, Inc.                       | Tom Markowski            |                        |                         |
| Quest Window Systems                               | Daniel Zalcmán           |                        |                         |
| Ready Glass & Mirror, Inc.                         | Silverio Perez           |                        |                         |
| Reem Emirates Aluminum & Glass                     | Hamed Hussein            |                        |                         |
| RF Supply, Inc.                                    | Mike Hoelle              |                        |                         |
| Rizhao Huaye Glass Co., Ltd.                       | Alex Yin                 |                        |                         |
| Robover Inc.                                       | Alain Fortin             |                        |                         |
| SAAND Inc.                                         | Steve Callahan           |                        |                         |
| SAGE Electrochromics Inc.                          | Helen Sanders            |                        |                         |
| Saint Gobain Mexico, S.A. de C.V.                  | Sandino Estrada          |                        |                         |
| Saint-Gobain SOVIS                                 | Jean-Francois Royan      |                        |                         |
| Sanshiba                                           | Toshiaki Matsuda         |                        |                         |
| SCHOTT Gemtron - Sweetwater                        | Bill Long                | Jack Francis           |                         |
| SCHOTT Gemtron (Canada) Corporation                | Bill Bartlett            |                        |                         |
| Shanghai Yaohua Pilkington Glass Group Co., Ltd.   | Dr. Sun Dahai            |                        |                         |
| Shenzhen Kai Tai Glass Co., LTD                    | Zheng gang He            |                        |                         |
| Shower Doors & More Inc.                           | Larry Giacin             |                        |                         |
| SIGCO, Inc.                                        | David A. McElhinny       |                        |                         |
| Simonton Windows                                   | Kevin Baker              | Chuck Andersen         |                         |
| Sky Land Tempering Glass Corp                      | Ricky Zeng               |                        |                         |
| Solar Seal Company-CT                              | Alex Bradaran            | Eric Shaw              |                         |
| Solar Seal Company-MA                              | Alex Bradaran            | Eric Shaw              |                         |
| Solar Seal Company-VA                              | Alex Bradaran            | Eric Shaw              |                         |
| Specialty Glass                                    | David Bazzano            |                        |                         |
| Strong Tempering Glass Industry LLC                | Menghang Chen            |                        |                         |
| Sunglas Technics Co., Ltd.                         | Steven Chang             |                        |                         |
| Swift Glass Co., Inc.                              | Daniel J. Burke          | Kathleen B. Schweizer  | Charles Burke           |
| Syracuse Glass Co., Inc.                           | John Dwyer               |                        |                         |
| Tacoma Glass Mfg. Inc.                             | Tim Conroy               |                        |                         |
| Tai Shan City Da Heng Art Glass Ltd.               | Liu Woxian               |                        |                         |
| Tai Sheng (Dong Guan)Glass Co.,Ltd                 | Zhibing Liu              |                        |                         |
| Taiwan Glass USA Sales Corp.                       | Peter Chen               |                        |                         |
| Techni-Glass, Inc.                                 | Pat Murphy               | Jason Hooven           |                         |
| Tecnoglass S.A.                                    | Christian Daes           |                        |                         |
| Tempco Glass and Fabrication, LLC                  | Michelle Pascal          |                        |                         |
| Templados Del Centro SA DE C.V.                    | Susana Jaramillo Vazquez |                        |                         |
| TG Changjiang Glass Co., Ltd                       | Richard Chubb            |                        |                         |
| The Original Frameless Shower Door                 | John Serino              |                        |                         |
| Thermal Seal Insulating Glass                      | Ann Oliveira             |                        |                         |
| Thermo BSL                                         | Pierre-Luc Bellavance    |                        | Guy Poirier             |
| Thermoseal Industries, LLC                         | Richard Chubb            |                        |                         |
| Thompson I.G. , LLC.                               | Heather Abbas            |                        |                         |
| Tianjin CSG Energy Conservation Glass Co., LTD     | Zaida Liu                |                        |                         |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Sang Kuy Lee             |                        |                         |
| Tianjin Northglass Industrial Technical Co., Ltd.  | Zhang Xue                | Anna Wu                |                         |
| TRACO (Three Rivers Alum)-PA                       | Dale Pittman             |                        |                         |
| Tri-Star Glass, Inc.                               | Tim Kelley               |                        |                         |
| Triton Glass LLC                                   | Sahaj R. Patel           |                        |                         |

**SGCC Certification Committee**

| <b>Licensee</b>                                       | <b>Primary Member</b>   | <b>First Alternate</b> | <b>Second Alternate</b> |
|-------------------------------------------------------|-------------------------|------------------------|-------------------------|
| Triview Glass Industries                              | Alex Kastaniuk          |                        |                         |
| Troy Systems LLC                                      | Ali Guney               |                        |                         |
| Trulite Glass and Aluminum Solutions                  | Phil Danielson          |                        |                         |
| TVITEC                                                | David Lopez             | Alexandra Gonzalez     |                         |
| Tweddell's Inc.                                       | Corey Myer              | Ed Blair               |                         |
| U.S. Glass Distributors Inc.                          | Franco Alfano           |                        |                         |
| United Plate Glass Co., Inc.                          | Darin Vietmeier         |                        |                         |
| Unitex Glass Chengdu Co., Ltd                         | Andy Yu                 | Chen Xinhua            |                         |
| Upstate Glass Tempering Inc.                          | David Chavoly           |                        |                         |
| Valentini Glass & Components srl                      | Claudio Valentini       |                        |                         |
| Vetzeria F. Illi Paci                                 | Maurilio Paci           |                        |                         |
| Vidrio Bisel S.A. de C.V.                             | Ignacio Flores Suarez   |                        |                         |
| Vidrios Dellorto S.A.                                 | Santiago Yanez          |                        |                         |
| Vidrios el Castillo SC del RL de CV                   | Carlos Benet Trad       |                        |                         |
| View Inc.                                             | Joe Crouson             |                        |                         |
| Viracon Inc.                                          | Brian Louks             | Don Boutelle           |                         |
| Virginia Glass Products Corp.                         | Benjamin Beeler         | W. Chris Beeler        |                         |
| Vistamatic                                            | Kevin Roth              |                        |                         |
| Vitemex                                               | Edgar Alonso de la Cruz |                        |                         |
| Vitra Vidrios Transformados SA de CV                  | Miguel Larach           |                        |                         |
| Viwinco, Inc.                                         | Michael Duncan          |                        |                         |
| W. A. Wilson Inc.                                     | Robert Hartong          |                        |                         |
| White Aluminium Enterprises L.L.C                     | Jabr Doshan             |                        |                         |
| Wholesale Glass Distributors, Inc.                    | Kevin Boudreaux         |                        |                         |
| Wisconsin Shower Door & Supply Corp                   | Chuck Biesik            |                        |                         |
| Wolverine Glass Products, Inc.                        | Terry Foust             |                        |                         |
| WSD Glass, Inc.                                       | Gary Reece              |                        |                         |
| Wuhan Aozheng Science and Technology Co., Ltd.        | Daisy Wang              |                        |                         |
| Wujiang Golden Glass Technologies, Ltd.               | WuCong Zhen             |                        |                         |
| Xinyi Group (Glass) Co. Ltd.                          | Janette Huang           |                        |                         |
| Yao Xiang Glass Product Co. Ltd.                      | Mai Yao Dong            |                        |                         |
| Yong Feng Tai Foshan City Glas Co., LTD.              | Aijun Zhong             |                        |                         |
| Zhangjiagang City Daming Glass Product Co., Ltd       | Xiao Ruijuan            |                        |                         |
| Zhangjiagang City Zaofa Safety Glass Co., Ltd.        | Zaofang Tang            |                        |                         |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.          | Xuxiang Dong            |                        |                         |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd | Steven Shang            |                        |                         |

**Certification Committee Chairman - Mark Cody****Member by virtue of being a director**

|                 |                  |
|-----------------|------------------|
| Public Interest | William Nugent   |
| Public Interest | Elaine Rodman    |
| Public Interest | June Willcott    |
| Public Interest | Peter Weismantle |
| Glasstech, Inc  | Norman Nitschke  |
| Public Interest | Patrick Loughran |

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Revised 10/1/2014

**~PROGRAM CONCEPT~**

The Safety Glazing Certification Council (SGCC®) is a non-profit corporation, established in 1971 by manufacturers of safety glazing products, building code officials, and others concerned with public safety.

The purpose of SGCC is:

- (a) To promote public safety by encouraging maintenance of the highest standards of excellence in the manufacture of safety glazing materials.
- (b) To encourage and cooperate in developing standards related to other performance characteristics of glazing products.
- (c) To plan, organize, direct, coordinate and maintain a certification program for glazing materials to assure that glazing products meet applicable standards or performance requirements adopted or approved by the Council.

SGCC® maintains a program which provides for the certification of safety glazing materials found to be in compliance with one or more of the following specifications:

American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test: ANSI Z97.1-2015.

Consumer Product Safety Commission Safety Standard for Architectural Glazing Materials - codified at Title 16, Part 1201 of the Code of Federal Regulations: 16 CFR 1201

National Standard of Canada - Tempered or Laminated Safety Glass: CAN/CGSB 12.1-M90

These specifications subject safety glazing materials, used in buildings and architectural products, to practical tests designed to reduce or eliminate unreasonable risk of death and injury when safety glazing material is broken by human contact.

The specification(s) to which a safety glazing material is certified by SGCC®, is at the direction of the licensee.

SGCC® responsibilities are threefold: to conduct an independent routine sampling and testing program; to approve the form of a licensee's label; and to withdraw the licensee's authority to use that label if certified products do not meet specification(s).

Management and control of SGCC® is vested in a board of directors, half representing industry and half representing the public interest. To prevent industry dominance of SGCC® actions, half the voting power of the board resides in the public interest directors regardless of the number of directors present at a meeting.

The certification program uses approved testing laboratories under the supervision of a qualified Administrator, retained by and responsible to SGCC®, who is unaffiliated with any licensee of safety glazing materials.

The licensee of a product listed in this directory has certified that the labeled material complies with the applicable specification(s). Compliance of a certified product with the applicable specification(s) is checked periodically by an approved testing laboratory under the supervision of SGCC®.

All manufacturers of safety glazing products are eligible and encouraged to apply for SGCC® certification. Products may also be licensed by non-manufacturers. (See "Who Can Become a Licensee") However, products are not certified until a test to the applicable specification(s) conducted at an approved testing laboratory indicates compliance, the SGCC® certification invoice is paid, and SGCC® License Agreements are properly executed.

Once certified by SGCC®, a product is assigned an exclusive certification number to identify it and the plant at which it is made. After which, to ensure continued adherence to the specification(s), SGCC® independently

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selects, at least twice in each year, samples during visits to the manufacturing plant or randomly from the market place to be tested to the applicable specification(s). Consequent to a test result showing compliance with the applicable specification(s) SGCC® authorizes the continued use of the certification number and the product listing in this directory.

This directory is divided into three basic listings: the first is by numerical sequence of certified product numbers listing the licensee holding that number; the second is of manufacturing licensees listed alphabetically by plants and the approved products manufactured at those plants; the third is by product type listing all licensees and locations approved for each product type. The Table of Contents lists various procedural and administrative information, as well as information as to where officers and directors may be located. Upon request, information from SGCC® concerning a statement of procedures or copies of minutes are available to manufacturers, public interest groups, and individuals.



## **~PROCEDURAL GUIDE~ (SD-07)**

### **FOREWORD**

The acceptance of a certified safety glazing material comes from the conviction such certification assures a high level of safety and quality, and that the integrity of the identifying mark or certification label is reliably maintained by a competent certifying agency.

ANSI Z97.1, 16 CFR 1201 and CAN/CGSB 12.1 all provide sound technical basis for a high level of safety. With the addition of independent administration, plus periodic routine sampling and product evaluation, a program of product certification is maintained which provides an independent third-party certification and testing program. The Certification Program described herein is predicated upon the concept of independent and impartial administration of the certification procedures which are incorporated in the SGCC® License Agreement.

The SGCC® License Agreement is the governing document for the operation of the Certification Program. The Procedural Guide, which is not an extension of this document, is for information and guidance and serves to describe administrative procedures and to ensure the uniform and equitable operation of the Certification Program.

### **GENERAL INFORMATION**

#### **THE CERTIFICATION CONCEPT**

The SGCC® Certification Program is based on the conviction no standard of safety or quality is good without the continuous adherence of the licensees' certified products to that standard.

To buyers, specifiers, code officials and users, the SGCC® certification label offers the licensee assurance his safety glazing material has been produced in conformance to ANSI Z97.1 and/or 16 CFR 1201 and/or CAN/CGSB 12.1.

Federal law, many state statutes, municipal ordinances, and building codes require glazing materials installed in certain defined locations comply with ANSI Z97.1 and/or 16 CFR 1201 and/or CAN/CGSB 12.1.

#### **WHO CAN BECOME A LICENSEE?**

Any manufacturer of safety glazing materials or any party contracting for the manufacture of safety glazing materials is eligible, on a voluntary basis, to become a licensee.

#### **WHO CONDUCTS THE PROGRAM?**

The Safety Glazing Certification Council, a non-profit corporation, is the sponsor of the Certification Program. SGCC® supervises the Certification Program under which its Administrator periodically checks and reports compliance of the products having the SGCC® certification label with the requirements of ANSI Z97.1 and/or 16 CFR 1201 and/or CAN/CGSB 12.1.

### **ADMINISTRATION**

Administrative Management Systems (AMS), is the independent Administrator of the Certification Program. AMS maintains the SGCC® office of certification and conducts the routine day-to-day business. All transactions are done in the name of SGCC®.

#### **HOW CAN YOU BECOME A LICENSEE?**

The following must be accomplished before SGCC® can certify an item of safety glazing material:

- a1) The applicant signs two copies of the SGCC® License Agreement and sends these to SGCC®. SGCC® will countersign all copies and return one to the applicant. Non-manufacturing applicants must include the location and appropriate signatures of their manufacturer for each location.

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- a2) The applicant must complete the SGCC® Application, which includes all of the necessary information for the safety glazing product(s) and return to SGCC®. (Added 7/1/2016)
- b) The applicant directs an SGCC® approved testing laboratory, of its own choosing, to send SGCC® one copy of a valid test report indicating the “initial” or “prototype” samples submitted for testing are in full and complete compliance with ANSI Z97.1 and 16 CFR 1201 and/or CAN/CGSB 12.1. Test reports are valid for initial certification if the report date is within 60 days. (Revised 7/1/2016)
- c) The applicant sends to SGCC® the certification fee for each item to be certified. (Revised 11/4/2015)
- d) (Deleted 10/21/07)

Having received all of the above items, SGCC® sends to the licensee the notice of product certification which includes an SGCC® certification number. This number must be incorporated into the permanent label affixed to each piece of certified safety glazing material. The certified item will be listed in the next edition of the Certified Products Directory.

### **QUALITY ASSURANCE PROGRAM (Revised 10/12/2006)**

SGCC® requires licensees to have a working quality assurance program for the fabrication of safety glazing. Compliance to quality assurance requirements will be validated at the first plant inspection after products are certified. Adherence is verified during twice per year plant visits. These requirements were adopted to improve the overall quality of safety glazing products in the program. These requirements are in addition to the ANSI, CPSC and CAN/CGSB 12.1 compliance testing required by the SGCC® certification program. The intent is to enhance the quality of products produced in the interim production periods between test cycles. Although a quality assurance program is a fundamental element of good fabrication practices, only successful testing to ANSI Z97.1, 16 CFR 1201 or CAN/CGSB 12.1 is valid proof of compliance with these standards. A licensee's quality assurance program, as a minimum, must have the following elements:

- 1) A Quality Manual – a document that identifies, describes and contains the workings of the quality system.
- 2) A quality system representative – the designated point of contact for the quality system.
- 3) Production testing:
  - a. Test procedures
    - i. Tempered
      - 1. Center punch test and/or impactor test (For example ANSI Z97.1)
    - ii. Laminated (the following are examples)
      - 1. Pummel test (Recommend contacting interlayer supplier for guidance)
      - 2. Impact and/or boil test (For example ANSI Z97.1)
      - 3. Ball drop test (For example GANA LD 100-06)
  - b. Frequency (as a minimum)
    - i. Tempered
      - 1. First of each product thickness per shift
      - 2. Additional testing based upon square footage produced
    - ii. Laminated
      - 1. Based upon process, products produced and square footage, consult your interlayer supplier for guidance
  - c. Documentation and retention of product testing records as a minimum:
    - i. 10 years

### **HOW THE CERTIFICATION PROGRAM WORKS**

Safety glazing materials must meet or exceed the applicable specification(s) before they can be certified by SGCC®.

All tests are conducted by SGCC® approved testing laboratories. All laboratories, whose test reports are utilized by the Certification Program, shall be approved by the SGCC® Certification Committee. Initial or

prototype tests are performed at an approved testing laboratory selected by the licensee. An approved testing laboratory selected with the concurrence of the Administrator by the licensee, tests routine evaluation samples.

#### **ADMINISTRATOR AUTHORIZES CERTIFICATION**

As sole judge of compliance with the applicable specification(s), the Administrator authorizes a product, which has been approved to be listed in the Certified Products Directory (CPD).

Licensees label safety glazing material, with the assigned SGCC® number, within the limits of the product size tested. If 34 by 76 inches is the size of the initial or prototype test sample, certification is extended to all sizes and the permanent label contains the letter "U", designating unlimited size. The letter "L" contained within the permanent label denotes certification is limited to the width and length of the initial or prototype test sample.

#### **PRODUCTS LISTED IN CERTIFIED PRODUCTS DIRECTORY**

Approved products are listed in a Certified Products Directory (CPD). The directory is published every six months and is sent to door, sash and building products manufacturers, glazing contractors, home builders, architects, regulatory agencies, code-making groups, etc. Directory listings contain the licensee's name and product description of safety glazing material certified by SGCC®.

The Administrator selects, at least twice in each year, samples of certified safety glazing material to be tested to the applicable specification(s). These samples are selected during visits to the manufacturing plant or from the market place.

#### **COMPLIANCE SAFEGUARDS**

##### **HOW IS COMPLIANCE ASSURED (Revised 11/4/2015)**

Any certified product determined, in the course of routine sampling and evaluation, not in compliance with the applicable test specification(s), is upon first failure, subject to the retest requirements of guideline G.11. Should the G.11 retest fail to comply, the product shall be subject to the removal of certification. After the 2<sup>nd</sup> consecutive failure, the licensee is given 7 days in which to demonstrate to the satisfaction of the Administrator compliance, and if not, certification is automatically withdrawn at the end of the 7-day period.

When any program, audit or quality assurance requirements are found to be in non-compliance, the licensee is sent a request for corrective action giving 30 days in which to demonstrate to the satisfaction of the administrator, compliance with requirements. If the licensee does not respond, a warning of possible removal of authorization to use the SGCC® permanent label is sent giving an additional 30 days to respond. If the licensee does not respond acceptably, authorization to use the SGCC® permanent label is **automatically terminated** at the end of the second 30 day period. (Revised 11/4/2015)

##### **CHALLENGING A CERTIFIED PRODUCT (Deleted 10/1/2014)**

##### **COMPLAINTS AND/OR APPEALING A CERTIFIED PRODUCT (11/03/2015)**

Negative feedback, from any source, on any aspect of the certification program or program administration that requires a response will be deemed a Complaint that requires a response. A complaint that challenges the conformance of any safety glazing product to program requirements shall be deemed an Appeal, whether by a licensee or by a consumer or other third party. Complaints or Appeals must be in writing and are first handled by the Administrator following the below procedure:

- 1) Complaints and Appeals are logged for tracking.
- 2) Notification of receipt and of the Complaint and Appeal process is sent to the initiating party.
- 3) Information from all involved parties is gathered.
- 4) All information is reviewed and a determination is made by the Administrator.
- 5) Notification is sent to all involved parties of the outcome.
- 6) All Complaints and Appeals are reviewed in a timely fashion and once resolved are marked as such.

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To help determine how to best handle a Complaint or Appeal, they may be categorized by the type of party initiating the Complaint or Appeal, either from a Business (i.e., licensee, competitor, or industry party), Consumer (i.e. end user or retailer), or Program Participant (i.e. participant, supplier, or licensee). The Administrator will discuss and work with the initiating party to determine coverage of costs associated with handling the Complaint or Appeal (this can be waived at the discretion of the Administrator or SGCC President). Once costs are agreed upon, the Administrator will investigate and make a determination. If the Administrator's determination is in favor of the complainant or appellant, then any costs associated will be borne by the involved licensee, SGCC, or the Administrator. If the Administrator disagrees with the complainant or appellant, then the initiating party is responsible for any costs.

Determinations by the Administrator can be contested and if they are, the matter will be sent to the SGCC Quick Action Committee for determination. If the Quick Action Committee's determination is contested, then the matter is sent to the Certification Committee for final determination and resolution. No further appeal is permitted from the decision of the Certification Committee.

## **WITHDRAWAL OF CERTIFIED PRODUCT**

Any product which has been certified by SGCC®, may be voluntarily withdrawn from the Certification Program by a licensee at any time.

## **COSTS**

### **WHAT DOES THE PROGRAM COST?**

The licensee pays, in advance, all projected fees for future routine evaluations to SGCC® on a six-month basis. A licensee is invoiced for each certified item separately listed in the Certified Products Directory.

The certification period is from January 1 - June 30 or July 1 - December 31. The licensee's initial invoice will be determined by the payment schedule as is listed below. All subsequent invoices will be for a full certification period.

| <u>DATE</u>             | <u>ADMINISTRATIVE/BUSINESS ACCOUNT<br/>FEE</u> | <u>TEST FEE</u> |
|-------------------------|------------------------------------------------|-----------------|
| January 1 - March 31    | 100%                                           | None            |
| April 1 - June 30       | 50%                                            | None            |
| July 1 - September 30   | 100%                                           | None            |
| October 1 - December 31 | 50%                                            | None            |

Test reports are valid for initial certification if the report date is within 60 days. (Revised 11/4/2015)

Initial certification during the first three months of the initial six-month period will require a selection in the first three months of the following six-month certification period.

## **CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS**

### **LICENSE AGREEMENT**

This agreement, incorporating independent program administration and routine periodic independent sampling and evaluation, governs the relationship between SGCC® and the licensee.

Future amendments or revisions to the License Agreement will be recommended by the SGCC® Certification Committee and enacted by the SGCC® Board of Directors.

## **EFFECTIVE DATE, DURATION AND TERMINATION**

The License Agreement, effective from the date of its execution, has a validity of six months (adjustable to a January 1 to June 30 or a July 1 to December 31 basis) and, unless revoked by SGCC® for causes set forth in the document, is automatically renewed for successive additional periods of six months, unless either party gives notice at least 60 days prior to the date of expiration that cancellation is requested.

Upon its proper execution and acceptance by SGCC®, the Pre-issued Certification Number Bond informs a licensee of the certification number of an item to be certified in the future. If the licensee marks production with the certification number prior to actual certification, the bond is forfeited to SGCC®.

Upon its proper execution and acceptance by SGCC®, the test release bond permits the continuation of certification of an item when production facilities are shut down. If the licensee does not notify SGCC® within one week of the resumption of production, the bond is forfeited to SGCC®.

## **ADMINISTRATIVE SERVICE AGREEMENT**

This agreement entered into by SGCC® and AMS governs the relationship between SGCC® and AMS, the independent Administrator. In general, it provides that the Administrator

- a) samples certified products routinely;
- b) has the right to witness any and all testing required by the program;
- c) reviews all test reports in order to determine compliance of the certified product with the applicable specification(s);
- d) inspects and approves all in-plant and test laboratory test facilities for use in this Certification Program (test laboratories are approved by the SGCC® Certification Committee);
- e) publishes and mails the SGCC® Certified Products Directory on or about January 1 and July 1 of each year;
- f) handles all routine clerical duties of SGCC® with respect to certification matters;
- g) acts as SGCC® treasurer, invoices licensees, maintains a bank account, and disburses funds (fiscal reports are made to the SGCC® Certification Committee);
- h) furnishes all testing, except for initial or prototype tests;
- i) attends all scheduled meetings of the SGCC® Certification Committee; and
- j) in all of its actions, acts in the name of SGCC®.

## **CERTIFIED PRODUCTS DIRECTORY**

This directory contains a listing of the certified safety glazing materials of each licensee.

## **CERTIFICATION LABEL**

The certification label, containing a number that refers to the listing in the Certified Products Directory, is permanently affixed to each piece of certified safety glazing material by the licensee. The listing in the directory provides a complete product description including licensee's name, location, etc.

## **PROGRAM RESPONSIBILITY**

The SGCC® Board of Directors has overall responsibility for the well being and acceptance of the Certification Program by industry, building officials and the public. It also bears corporate legal responsibility.

The SGCC® Certification Committee has the responsibility for the general procedure and policy pertaining to the conduct of the Certification Program. As a part thereof, it:

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- a) establishes certification "guidelines";
- b) determines, where a question is raised by a licensee or the Administrator, the applicability of the specification(s) in specific situations;
- c) approves testing laboratories;
- d) determines which specifications are to be designated effective for the purposes of product certification and the date or dates on which they become effective; and
- e) recommends to the SGCC® Board of Directors changes to be made in the license agreement.

## **CERTIFICATION GUIDELINES AND INTERPRETATIONS**

For guidance in certifying safety glazing materials, the SGCC® Certification Committee has adopted the following:

### **GENERAL**

#### **G.1**

Participation in the Certification Program will be on a January 1 to June 30 and July 1 to December 31 basis.

#### **G.2**

Tests for initial compliance of safety glazing materials to ANSI Z97.1 / 16 CFR 1201 plus CAN/CGSB 12.1 will be accepted from any testing laboratory approved by the SGCC® Certification Committee. (Revised 7/1/2016)

#### **G.3 (Deleted 11/4/2015)**

#### **G. 4**

For insulating glass units to be considered safety glazing material, each lite in the construction must be of safety glazing material.

#### **G.5**

The SGCC® item number, when used as part of a permanent label, designates the name of the licensee (participant) and also the location of the manufacturing plant.

#### **G.6**

- a) All test specimens, except prototype samples, must be marked with the correct SGCC® permanent label prior to testing in order to be considered a valid sample. It is the responsibility of the licensee to ensure the specimens being represented to the Administrator's representative are properly labeled. The Administrator shall construe the absence of a correct permanent label as a failure to comply with the specifications. In such case of noncompliance, Sections a, c, and e of G.11 shall be followed. (Revised 3/16/1990)
- b) The laboratory shall verify that the label complies with SGCC® labeling requirements. (Revised 10/15/2008)
- c) The testing laboratory is to advise the Administrator of any specimen to which the correct SGCC® permanent label is not affixed. The testing laboratory will be instructed by the Administrator not to test but hold the sample.
- d) The Administrator will inform the licensee of the situation and direct (by letter) the testing laboratory to commence testing no later than 30 days hence. Although this set of samples will already be considered as noncompliant with label requirements, test specification testing will still occur for information only, unless otherwise requested not to be tested by the licensee. Until that time, the testing laboratory is instructed to make these specimens available to the licensee at their convenience (the specimens are to remain at the testing laboratory) in order that the licensee may point out or

show them that in fact the SGCC® permanent label is correct or agree that in fact the correct SGCC® permanent label is not present. In cases of any dispute between the licensee and the testing laboratory the decision of the Administrator shall be final. The licensee shall not mark specimens after receipt at the testing laboratory.

- e) Effective with the last of 2016 (L16) certification period, the SGCC® permanent label must contain ANSI Z97.1-2015 in order to be considered a correct permanent label for purposes of Guideline G.6. (Revised 7/1/2016)

G.7 (ANSI ONLY)

Safety glazing materials for which certification is requested for indoor use only shall be subjected to the provisions of section 5.1 (impact tests) and 5.4.3 (aging tests) of ANSI Z97.1 irrespective of the composition or construction of the glazing material. Like products and materials produced in the same manner as samples submitted for test shall be legibly and permanently marked in one corner with the words "Indoor Use Only" and the SGCC® identification number.

G.8 (Deleted 4/29/2010)

G. 9 (Deleted 7/1/2016)

G.10

In cases where the Administrator samples and identifies specimens for routine evaluation of the licensee's premises or requests licensee's samples when none are available at the time of sampling:

- a) The licensee is permitted six weeks in which to effect delivery of said specimens to the Administrator's designated testing laboratory.
- b) Failure to act as specified above shall be construed by the Administrator as failure of said specimens to comply with the specifications and the Administrator shall act as provided for in license agreement A.6.

G.11 (Revised 10/2/2014)

In cases where a routine evaluation sample fails to comply with the specifications:

- a) Written notice and an invoice shall be sent to the licensee by the Administrator stating that within 30 days from the date of such notice the licensee must submit a retest sample to the testing laboratory selected by the licensee with the concurrence of the Administrator.

Certification shall be removed if the sample and payment are not received within the allotted 30 days or if the sample submitted fails to comply with the specifications.

- b) All costs related to G.11 are to be borne by the licensee.
- c) If the retest procedure is required, all routine inspections and sample selections will continue. However, routine testing for the next period will be suspended pending the outcome of the retest procedure. If the product is decertified, the prepaid fee for routine testing for the next period (but not the Administrative and Contingency fees) will be refunded.

G.12

If a licensee who manufactures or contracts for the manufacture of a certified product outside the United States and Canada feels that in a particular instance that he will be unable to act as provided for in paragraph (a) of SGCC® Guideline G.11, he should notify the Administrator. The Administrator will then contact the chairman of the certification committee for a decision as to what action is to be taken.

G.13 (Deleted 5/6/1999)



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G.14

The semi-annual invoicing date for certification fees shall be April 1 and October 1 of each year and the Administrator is instructed to take those steps necessary to remove certification from licensees for failure of payment. (Modified 10/20/1989)

The Administrator shall initiate de-certification procedures on products for a given licensee's failure to pay any monies due to SGCC® within 60 days of invoice date. (Reference License Agreement A.2, A.7, A.12, and B.6.)

The invoice procedures will be as follows:

- a) Semi-Annual SGCC® invoices will be mailed on or before April 1 and October 1 of each year. Payment is due May 1 and November 1 respectively.
- b) For all overdue invoices as of May 1 and November 1, a phone call will be made as a reminder and to ensure that the licensee received the invoice. A letter will follow the phone call.
- c) For all overdue invoices as of May 15 and November 15, an overnight letter, return receipt requested, will be sent warning of de-certification if payment is not received within 15 days.
- d) Letters of de-certification will be sent certified mail fifteen (15) days from the mailing of the overnight letter if payment is not received. With de-certification, a licensee will no longer be an SGCC® participant and its certified products will not appear in the CPD.

G.15 (Deleted 10/2/2014)

G.16

The nominal thickness designations in SGCC® authorized permanent labels for safety glazing materials may be shown in metric units. The thickness will be expressed in millimeters, limited to one decimal place, and will have the suffix "mm." (Revised 4/19/2004)

G.17 (Deleted 7/1/2016)

G.18

Certified and permanently labeled safety glazing materials such as laminated glass, wired glass, rigid plastic, or organic coated glass, may be cut into smaller pieces by a distributor or installer after manufacture and it is not practical for each smaller piece to bear a manufacturer's permanent label when finally installed in a building. When this is the case, the distributor or installer shall apply a permanent label to each piece which states his name and certifies that he cut the piece from material that was properly labeled in accordance with the requirements of SGCC® (refer to "SGCC® Label Requirements" for additional information). (Revised 10/25/2001) For the purpose of this guideline, a permanent label is defined as one that will remain permanently legible and would be destroyed in attempts to remove it from the product.

G.19 (Deleted 10/20/1989)

G.20 (Deleted 4/26/2007)

G.21

A pre-issued SGCC® certification number shall be issued by the Administrator upon receipt of a properly executed License Agreement and a properly executed *Pre-Issued Number Form and Application (SD-06)* (application). The application must be completed for any new safety glazing product(s) (prototype) the fabricator submits for testing. If the fabricator requests pre-issued certification number(s) and does so with the understanding that these numbers (SGCC Mark/label) will not be applied to any product(s) until authorization to do so by SGCC®. The fabricator will not be authorized to use the number(s) until testing, final approval and formal certification is complete. (Revised 7/1/2016)

G.22

In the case of plastics and organic coated glass certification of a patterned product may be extended to cover other patterns provided:

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- a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.
- b) The Administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1 for each alternate pattern proposed.
- c) The certification committee is provided with a 6 inch by 6 inch sample of each proposed alternate for its record and file. This must be sent to the Administrator of the certification program.

After admission under blanket certification covering patterned products, any such patterns available may be selected by the Administrator for routine sampling and testing.

In the case where a routine evaluation sample covered under a blanket certification fails to comply with the specifications, the situation requires that the particular product be submitted for the retest sample required by Guideline G.11. (Revised 7/1/2016)

#### G.23

There may be instances when a production facility is temporarily inoperative. This could be caused by, but not limited to, equipment repair or replacement, labor difficulties, energy or material shortages, or economic considerations. As a consequence, samples for routine testing may not be available for long periods. The licensee may desire to retain certification during the shutdown period. This shall be done as follows:

- a) Prior to or within two weeks after the shutdown, the licensee shall inform the SGCC® Administrator by certified mail.
- b) The SGCC® Administrator will immediately supply the licensee with test release bond forms for submission by the licensee. A separate bond shall be submitted for each certified product affected.
- c) Within two weeks after receipt of the bond forms, the licensee shall submit them to the SGCC® Administrator.
- d) During the period covered by the bond the licensee shall retain certification, contingent upon payment of normal certification fees and meeting all other licensee obligations. Bonds will be for a specific certification period and will expire at the end of that certification period but may be renewed by the licensee any number of times. Renewal is an obligation of the licensee and requires all steps listed herein. (Revised 10/25/2001)
- e) Within one week after re-activation of the production facility the licensee shall 1) notify the SGCC® Administrator by certified mail, and 2) submit samples from the first weeks production to an SGCC® approved laboratory for testing. In cases where more than one certified product is produced with the same equipment, samples of each must be furnished for testing within the first month. These will be considered as the routine samples for retesting for the six months period during which they are submitted.
- f) Failure of the licensee to comply with any of the preceding shall be the basis for removal of certification from the affected products.

#### G. 24

When a licensee's production equipment will not produce a size of 34 inches by 76 inches and the licensee wishes to certify a) a size whose smaller dimension exceeds 34 inches, material shall be tested whose smaller dimension is 34 inches, or b) a size whose larger dimension exceeds 76 inches, material shall be tested whose larger dimension is 76 inches.

#### G.25 (Deleted 7/1/2016)

G.26

Any label that can be removed intact shall not be considered permanent and is not acceptable to SGCC®.

G. 27

A licensee at time of prototype submission should determine if certification shall be for ANSI / CPSC (Composite) OR Composite plus CAN/CGSB 12.1 (COMP+CAN). The licensee shall be issued only one SGCC® number for composite certification for each product. The licensee will submit four samples to be impact tested to ANSI Z97.1 and CAN/CGSB 12.1 (for all specimens that are not symmetrical from surface to surface an equal number of specimens shall be impacted on each side). If any one specimen of the composite sample fails, the entire composite sample will be considered to have failed to comply with the standards. (Revised 7/1/2016)

G. 28

The Administrator shall construe noncompliance with thickness tolerance as a failure to comply with the specifications. In such cases of noncompliance, Sections a, b and c of G.11 shall be followed. (Revised 10/2/2014)

G. 29

For the purposes of certification, the thickness requirements of Standard ASTM C1036, CEN or other nationally or internationally recognized thickness specifications shall apply. In all cases label information must be accurate for the nominal thickness of the applicable Standard. An indicator shall be used to identify Standards other than ASTM C1036 (e.g., EN for European Norm). If no indicator is used, the product will be assumed to comply with ASTM C1036. (Revised 10/15/2008)

G. 30 (Deleted 10/5/2004)

G.31 (Deleted 10/5/2004)

G.32 (Deleted 7/1/2016)

G.33

If a manufacturing plant for which a product is certified is sold, the new owner or licensee must take the following steps to maintain certification:

- a) Notify the Administrator in writing of the sale as soon as possible (and in no event later than 60 days) after the sale;
- b) Execute a new license agreement, if the new owner is not already a licensee; and
- c) Exercise the option of maintaining the original licensee's SGCC® number(s) or requesting new numbers. If the new owner chooses to keep the existing number(s), the logo on the certified product must clearly distinguish it from the previous owners.

The Administrator shall arrange for the next routine sampling to take place within six months of the sale. If the plant is temporarily inoperative in connection with the sale, the provisions of G.23 shall also apply.

G.34

Samples of any shape or shape altering process such as notches or holes shall be covered by the certification of the base rectangular product. Certification to "U" unlimited size may be any size. Certification to "L" limited size requires that the shape must fit within the outline of the largest certified size. (Added 4/26/2007)

## **TEMPERED TRANSPARENT GLASS**

T.1

Certification of either flat glass or patterned glass will not cover the other except as noted in Guideline T.2. (Flat glass designates ground and polished plate, float and sheet glass.) (Revised 7/1/2016)

T.2

Polished plate glass and the rough glass blank from which it is produced will be considered to be of equal nominal thickness. Certification of tempered flat glass will therefore be interpreted as including tempered rough plate blank.

T.3

Certification of regular tempered glass will also cover tinted, heat absorbing, and coated glasses of the same nominal thickness where the coating does not alter substantially the post-breakage behavior of the glass substrate. A "substantial alteration" is one that would render the coated tempered glass in non-conformance with the applicable safety glazing standards. Glasses of the same nominal thickness with a ceramic or other material applied as a continuous or partial coating to one or more surfaces are also covered. (Modified 04/02/1992)

T.4

In cases where certified glass is normally not available for sampling, the licensee may make an overrun (of four lights of prototype size that are to be marked with the date of production) when the item is in normal production, and these will be accepted by the Administrator if other samples are not available. Otherwise, when production samples are not available, the Administrator shall notify the licensee to submit prototype size samples to the Administrator within six weeks.

T.5

Certification of any nominal thickness of tempered safety float or sheet glass will also cover the other types. ANSI Z97.1, 16 CFR 1201 and CAN/CGSB 12.1 do not require the permanent label on tempered safety glass to specify which type of glass is used. Nor is it required that the test specimens be identified in this regard. (Revised 10/10/2012)

T.6

Bent Glass shall be certified separately from flat glass. Bent glass test methods shall be the same as for flat sample testing except as referenced in the text and figures of the ANSI Z97.1 standard. Interpretation of results shall be the same. (Revised 10/21/2005)

T.7

For purposes of impact test evaluation when breakage occurs, the average thickness of a tempered glass specimen containing grooves, bevels and other thickness altering fabrication shall be considered the average of the thinnest measurement of each of the ten (10) geometrically largest particles. This average thickness will then be used to determine the maximum allowable weight of the ten (10) largest particles. Upon successful completion of testing the thickness for the specimen shall be listed in the CPD as the thickness of the non-fabricated base glass. SGCC® views glue chip, beveling, and grooving as a fabrication process prior to tempering, and as such is not certified separately from the base glass thickness. (Example: Certification of 3/16" TTG would also cover 3/16" glue chip or beveled product.) (Revised 10/01/2002)

## TEMPERED PATTERNED GLASS

TP. 1

For the purposes of certification, the nominal thickness of patterned, figured, or rough rolled glass are the common fractions found in ASTM C1036 or other nationally or internationally recognized thickness standards and the thickness should be measured in accordance with the procedure as described in ASTM C1036, current revision. The permanent label must contain this fraction on a metric or decimal dimension within the tolerance of this thickness as published in ASTM C1036 or other nationally or internationally recognized thickness standards. (Revised 7/1/2016)

The patterns in each thickness will be classified as to the ratio of minimum to maximum thickness as follows:

| Patterned Depth Class   | Ratio             |
|-------------------------|-------------------|
| Shallow patterned glass | 0.90 or above     |
| Medium patterned glass  | 0.80 through 0.89 |
| Deep patterned glass    | 0.79 or below     |

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Certification will be by nominal thickness and patterned depth class. Any pattern in a certified thickness and patterned depth class is certified.

New or unlisted patterns must be submitted to the pattern subcommittee for classification and file prior to certification. After measurement, the new pattern will be assigned to a patterned depth class. (See table of Classified Tempered Glass Patterns in this directory).

Certification of deep also covers medium and shallow patterns of the same nominal thickness.

Certification of medium also covers shallow patterns of the same nominal thickness.

TP. 2

The maximum thickness shall be recorded when measuring the thickness of patterned glass.

TP.3

For tempered patterned glass, one specimen must be weighed and the weight of ten square inches determined from the weight, width and height of that specimen to use for test purposes.

TP.4 (Deleted 10/5/2004)

TP.5

When medium patterned glass is not available for routine sampling, the licensee submitted specimens must be a medium pattern (a shallow pattern is not acceptable).

TP.6

When deep patterned glass is not available for routine sampling, the licensee submitted specimens must be a deep pattern (shallow or medium patterns are not acceptable).

## **Laminated Glass**

For the initial certification of Laminated Glass, testing must be performed on each nominal thickness of at least one brand of each generic category of interlayer material for which SGCC® certification is desired. Ongoing certification shall be by two thickness classes (S=Standard (<.292-inches) and H=Heavy (.292 inches and greater)) and per generic category of interlayer. A list of accepted interlayer brands per generic category shall be maintained by SGCC® (SGCC® List of Accepted Interlayers can be found at [www.sgcc.org](http://www.sgcc.org) Certification to one brand within the generic category will allow switching to other brands within the generic category on the list. (see "SGCC® Proposal for the Certification of Laminated Glass" dated November 5, 2007 available at [www.sgcc.org](http://www.sgcc.org)) (Added 4/2/2008)

L.1

Certification of clear laminated glass will also cover tinted, heat absorbing, and coated glasses, clear or tinted interlayer, and both flat and bent laminates of the same nominal thickness. (Revised 7/1/2016)

L.2

In cases where certified laminated glass is normally not available for sampling, the licensee may make an overrun (of four lights of prototype size that are to be marked with the date of production) when the item is in normal production and these will be accepted by the Administrator if other samples are not available. Otherwise, when production samples are not available, the Administrator shall notify the licensee to submit prototype size samples to the Administrator within six weeks.

L.3 (Deleted 4/2/2008)

L.4

When a laminated glass is certified, other laminated glasses of the same nominal thickness having a greater thickness of interlayer will be included in the certification. (Revised 4/2/2008)

L.5

Laminated safety glass shall be identified by type of base glass, per Guideline L.8, and certified in 1 of 3 product type codes (A, HS, T). In consideration of Guideline L.1, Laminated Transparent Glass (LTG) is defined as 2 or more lites of glass with the same family of polymer (interlayer(s)) between the lites. Laminated Patterned glass (LPG) shall be defined the same as LTG except that at least one lite shall be patterned glass. Laminated Specialty Product (LSP) shall be defined as 2 or more lites of glass or other material with multiple interlayers, same or different family, with an insert (other layer of sheeting or non-continuous material) encapsulated in between the interlayers. For LSP, changes in material of plies or insert and changes in thickness of insert shall require separate certification. Changes in coatings, color or decorative pattern shall be included in the same certification. (Revised 10/2/2014)

L .6

Thickness of the interlayer shall be measured by the SGCC® standard method. (Revised 4/2/2008)

L .7

Nominal thickness for laminated glass has been expanded from standard ASTM C1036 values to eliminate "gaps" in ranges. For certification purposes, the following thickness tolerances shall be used. Thickness tolerance shall apply only to the overall thickness. Interlayer thickness shall be reported. The reported value shall be used to determine "nominal" thickness of the interlayer, with a maximum allowable minus tolerance of 0.005 inches. (Revised 11/4/2015)

| mm   | Traditional (in) | Range (in)          |
|------|------------------|---------------------|
| 3.0  | 1/8              | 0.115 – 0.148       |
| 4.0  | 5/32             | 0.149 – 0.179       |
| 5.0  | 3/16             | 0.180 – 0.218       |
| 6.0  | 1/4              | 0.219 – 0.291       |
| 8.0  | 5/16             | 0.292 – 0.354       |
| 10.0 | 3/8              | 0.355 – 0.468       |
| 12.0 | 1/2              | 0.469 – 0.594       |
| 16.0 | 5/8              | 0.595 – and greater |

L.8

Laminated glass shall be certified by its base glass heat treating (A= annealed, HS= heat strengthened, T= tempered). When a laminated annealed glass (A) is tested and certified, other laminated glasses having the same nominal thickness or thicknesses of heat strengthened (HS) or tempered glass (T) and the same or greater thickness of interlayer of the same generic category will be considered to be included in the certification. Testing of heat strengthened (HS) will only certify heat strengthened (HS) and tempered (T). Testing of tempered (T) will only certify tempered (T). (Revised 9/17/2013)

L.9

When laminated glass is not available for routine sampling, the licensee submitted specimens must contain the identical nominal thickness interlayer that was contained in the prototype specimens. (Revised 4/2/2008)

L.10

For certification to ANSI Z97.1, weathering tests on laminated glasses shall be performed on the thinnest construction of all components in clear glass with clear interlayer. Weathering tests shall only be required initially. Weathering data will be accepted from the glass fabricator, or a supplier, i.e. interlayer manufacturer. Since SGCC's acceptance of weathering data is a "one-time" event, no formal weathering lab approval will be required. However, at time of weathering data submittal, the weathering test facility shall submit an explanation why they are competent to perform such tests. Justification of competence shall be judged on any facility's history and experience. (Revised 1/30/2012)

L.11

An SGCC® certified participant may use any interlayer supplier on the SGCC® Accepted interlayer List of the same generic category. (Added 4/2/2008)

## SGCC LIST OF ACCEPTED INTERLAYERS – SD-99

| Generic Code | Description                    | Generic Code                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Description                                      | In order for a laminated glass product to become or remain SGCC Certified, the interlayer used by the manufacturer must be on this list.                                       |                                                                                                                                             |
|--------------|--------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------------------------|
| (b)          | Poly Vinyl Butral              | (p)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Polyethylene Terephthalate                       | L.4 When a laminated glass is certified, other laminated glasses of the same nominal thickness having a greater thickness of interlayer will be included in the certification. |                                                                                                                                             |
| (ip)         | Ionoplast                      | (f)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Fluorinated Ethylene Propylene                   |                                                                                                                                                                                |                                                                                                                                             |
| (lc)         | Liquid Resin - Multi Component | (u)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Polyurethane                                     |                                                                                                                                                                                |                                                                                                                                             |
| (lu)         | Liquid Resin - UV Cure         | (ev)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        | Ethylene-Vinyl Acetate                           |                                                                                                                                                                                |                                                                                                                                             |
| (el)         | Epoxy-Liquid Crystal Polymer   | All interlayers must have weathering test data on file. Outdoor use may be tested to ANSI Z97.1-2009 or 2015 and Indoor use only must be tested to ANSI Z97.1-2015 weathering data.<br><b><u>All Indoor use only products must submit Indoor Use Only Weathering requirements to ANSI Z97.1-2015 by 12/31/2016 to maintain approval on this list. Interlayer suppliers not providing weathering data to SGCC by 12/31/16, will no longer be available for manufacturers to use in SGCC certified products. (7/1/16)</u></b> |                                                  |                                                                                                                                                                                |                                                                                                                                             |
| Generic Code |                                | Supplier                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Interlayer Brand                                 | Interlayer Formulations                                                                                                                                                        | Weathering Data                                                                                                                             |
| (b)          |                                | Eastman Chemical Company (formerly Solutia)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Saflex IIIG/Vanceva                              | Series A, C, D, F, H, M, N, P, R, S, W                                                                                                                                         | Solutia Report 8/11                                                                                                                         |
| (b)          |                                | Eastman Chemical Company (formerly Solutia)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Saflex Specialty                                 | Saflex Q, AG, DB/DS                                                                                                                                                            | Solutia Report 8/11                                                                                                                         |
| (b)          |                                | Eastman Chemical Company (formerly Solutia)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Saflex Composite                                 | Saflex V, K series                                                                                                                                                             | Solutia Report 8/11                                                                                                                         |
| (b)          |                                | Kuraray (formerly DuPont)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SentryGlas Expressions                           |                                                                                                                                                                                | DuPont Report 3/11                                                                                                                          |
| (b)          |                                | Kuraray (formerly DuPont)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Butacite                                         | 50-56, 551-553                                                                                                                                                                 | DuPont Report 3/11                                                                                                                          |
| (b)          |                                | Kuraray                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                     | Trosifol                                         | BG, AF, SC, VG, XT90, Solar R40, HR100                                                                                                                                         | Kuraray Report 5/23/12                                                                                                                      |
| (b)          |                                | Chang Chun                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Winlite                                          | (.015)                                                                                                                                                                         | Guardian Report ALR 13-266                                                                                                                  |
| (b)          |                                | Sekisui S-Lec America LLC                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | Sekisui S-LEC Film & Sekisui S-LEC Acoustic Film | (.030)                                                                                                                                                                         | ATI Report C0265.02-122-37 & C0265.01-122-37 6/12/12                                                                                        |
| (b)          |                                | Everlam S.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | EVERLAM™ NC 010                                  | (.015)                                                                                                                                                                         | Intertek report E1130.-02-106-31 2/18/16                                                                                                    |
| (ip)         |                                | Kuraray (formerly DuPont)                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                   | SentryGlas                                       | (.035)                                                                                                                                                                         | DuPont Report 3/11                                                                                                                          |
| (lu)         |                                | Bestroom Co. Ltd.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           | UVLAM                                            | (.040)                                                                                                                                                                         | Bestroom Laboratory Report 1/17/11                                                                                                          |
| (lu)         |                                | ALLNEX                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | UVEKOL                                           | (.040)                                                                                                                                                                         | Allnex Statement 3/14/14                                                                                                                    |
| (ev)         |                                | Interlayer Solutions, inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | EVALAYER                                         | (.015)                                                                                                                                                                         | Interlayer Solutions Inc. Performance Report 7/8/15                                                                                         |
| (ev)         |                                | Bridgestone                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | EVASAFE                                          | (.030)                                                                                                                                                                         | Intertek/ATI Report 3/2/15                                                                                                                  |
| (ev)(p)      |                                | Folienwerk Wolfen GmbH                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                      | Evguard and Hybrid MPE Interlayers               | (.015)(.008)(.015)                                                                                                                                                             | Blackwater Testing 11/15                                                                                                                    |
| (ev)         |                                | Hornos Industriales Pujol, S.A.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                             | EVALAM                                           | (.030)                                                                                                                                                                         | INDOOR USE ONLY – NO WEATHERING DATA ON FILE<br><b>MUST RECEIVE WEATHERING DATA BY 12/31/16 OR WILL BE REMOVED</b><br><b>SEE NOTE ABOVE</b> |
| (el)(p)      |                                | Polytronix, Inc.                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                            | Polyvision Film                                  | (.075)                                                                                                                                                                         | INDOOR USE ONLY – NO WEATHERING DATA ON FILE<br><b>MUST RECEIVE WEATHERING DATA BY 12/31/16 OR WILL BE REMOVED</b><br><b>SEE NOTE ABOVE</b> |

W.1 (Deleted 11/4/2015)

## **PLASTICS - GENERAL (ANSI Only)**

P.1

Certification of one tint or color of rigid plastic will also cover other tints, colors, flat configurations, or bent and formed configurations.

P.2

For certifying all plastics covering a range of thicknesses, prototype impact tests are required of the minimum thickness and also of the maximum thickness (except that 0.250 inch thickness would be tested if the maximum thickness exceeds 0.250 inches). Only one certification number will be issued and shall be marked upon all thicknesses. Routine evaluation samples are to be selected by the Administrator from any of the certified thicknesses.

P.3

The following thickness tolerances shall be used for certification purposes:

- Outdoor use plastic materials Categories C-1 and C-2 cast Acrylic, (including continuously cast sheet): As specified in ASTM-D4802-88, Table 2 and Table 3.
- Outdoor use plastic materials Categories M-1 and M-2 extruded Acrylic: As specified in ASTM-D4802-88 Table 2 plus or minus five percent.
- Outdoor use plastic materials extruded polycarbonate: As specified in Military Specification MILP-46144, latest issue.
- Indoor use plastic materials plus or minus five percent of nominal thickness.

P.4

The maximum thickness shall be recorded when measuring the thickness of patterned plastics.

P.5

Certification of either smooth plastic or patterned plastic will not cover the other.

## **PLASTICS - EXTERIOR USE (ANSI Only)**

PE. 1 (ANSI ONLY)

Sheet plastics for exterior use must comply with the applicable specification.

PE. 2

Certification of plastics for exterior use shall be permitted prior to completion of ANSI Z97.1 weathering tests (paragraph 5.3) provided that a considered expert opinion states that the infrared spectrogram indicates that the plastic is an acrylic or UV, inhibited polycarbonate of proven weatherability. Certification shall be removed if compliance with the weathering test is not demonstrated within six months of the certification date.

PE. 3

For all plastics requiring UV weathering tests, an infrared spectrogram shall be obtained of all prototype weathering specimens. An infrared spectrogram shall be obtained of all routine evaluation samples and shall be compared with that of the prototype in lieu of conducting weathering test. The spectral scan shall be made using a minimum film thickness of 0.002 inches or its equivalent.

PE.4

When initial Charpy unnotched specimens do not break, then notched specimens shall be used for both initial and exposed Charpy impact testing. The specimens shall be notched prior to UV exposure and the notched surface shall be exposed to the UV.



**PLASTICS - INDOOR USE ONLY (ANSI ONLY)**

**PI.1**

Sheet plastics used in indoor applications only do not have to comply with paragraph 5.3 of ANSI Z97.1 (UV Weathering), but must comply with paragraph 5.4.

**PI.2**

The permanent label authorized by SGCC® must include "Indoor Use Only."

**PI.3**

For all indoor plastics requiring aging tests, an infrared spectrogram shall be obtained of all prototype aging specimens. An infrared spectrogram shall be obtained of all routine re-evaluation samples and shall be compared with that of the prototype in lieu of conducting aging tests. The spectral scan shall be made using a minimum film thickness of 0.002 inches or its equivalent.

**LEADED PATTERNED ANNEALED GLASS – (ANSI ONLY)**

LG.1 (Deleted 4/26/2007)

LG.2 (Deleted 4/26/2007)

LG.3 (Deleted 4/26/2007)

**ORGANIC COATED GLASS**

**AG.1**

Thickness of the applied plastic coating shall be measured by the SGCC® standard method. When testing to the impact test criteria in 16 CFR 1201.4(a)(1), four specimens shall be tested or as noted in guideline G.27. (Revised 10/22/1993). For organic coated - hybrid, reference memorandum 940329-1.

**AG .2**

The SGCC® authorized permanent label, which complies with Guideline G.26, must be imprinted upon or applied to a surface of the plastic for all plastic coated annealed glasses.

**AG .3 (ANSI ONLY)**

Prototype test shall be conducted on bent specimens of the surface area at least 50 percent of the maximum size for which certification is desired. Routine tests may be conducted on flat or bent specimens. The test apparatus shall be modified to clamp the vertical straight edges and to support the concave side for the curved edges. Two specimens shall have organic coating on the concave surface and two on the convex surface. Impact shall be on the convex surface.

**AG .4**

For certification to ANSI Z97.1, weathering tests on organic coated glasses shall be performed on the thinnest construction of all components in clear glass with clear plastics. Weathering tests shall only be required initially. Weathering data will be accepted from the glass fabricator, or a supplier, i.e. organic coating manufacturer.

## **SGCC ADVERTISING GUIDELINES**

The following concepts are important to remember if you are a participant or licensee in the SGCC Certification Program or a distributor of safety glazing materials. This discussion is intended to provide you with an accurate background description of the SGCC Certification Program to help you avoid making possibly misleading, deceptive, or ambiguous statements regarding the program in the advertising of your products.

1) SGCC is a non-profit organization that maintains a third-party certification program which provides for the certification of safety glazing materials found to be in compliance with either ANSI Z-97.1-2015 or 16 CFR 1201 or both, or both plus CAN/CGSB 12.1. Products are not certified by SGCC unless and until a test to the applicable specification(s) conducted at an approved testing laboratory indicates compliance and the license contract requirements are met. (Revised 10/10/2012)

2) Once certified by SGCC, a product is assigned an exclusive certification number to identify it and the plant at which it is made. After which, to ensure continued adherence to the specification(s), SGCC independently selects, at least twice in each year, samples from the manufacturer or from the market place to be tested to the applicable specification(s). Consequent to a test result showing compliance with the applicable specification(s), SGCC authorizes the continued use of the certification number and its listing in the SGCC's Certified Products Directory.

3) To maintain certification, SGCC also requires licensees to have a working Quality Assurance program for the fabrication of safety glazing materials. Compliance to QA requirements is validated at the first SGCC plant inspection after products are certified, and adherence is verified thereafter at each twice per year plant visit.

4) To buyers, specifiers, code officials, and users, the SGCC certification label offers the licensee assurance that its safety glazing material has been produced in conformance to ANSI Z-97.1-2015, 16 CFR 1201 and/or CAN/CGSB 12.1. (Revised 10/10/2012)

5) The SGCC Administrator audits laboratories and checks their equipment, audits licensees' production and fabrication of specimens, and validates test reports and certification claims. The Administrator periodically checks and reports on compliance of the products having the SGCC certification label with the applicable specification(s).

6) SGCC-approved laboratories test specimens to specific test methods and specifications referenced by SGCC.

7) SGCC does not have "members" insofar as the term "members" connotes that some detailed criteria must be met in order to participate in the organization. Under the SGCC by-laws, any person or organization (other than a glazing manufacturer) that has a legitimate interest in the purposes of SGCC may become a participant. Manufacturers, on the other hand, become participants by virtue of executing a License Agreement with SGCC. Any manufacturer of safety glazing may voluntarily enter into a License Agreement with SGCC, provided that they intend to certify at least one product under the SGCC Certification Program. Thus, the proper term to use for a manufacturer is "participant" or "Licensee."

8) The following are examples of possible advertising language that licensees might wish to use:

- a) Our company is a licensee of the Safety Glazing Certification Council (SGCC).
- b) We submit our tempered/laminated glass products for certification through the SGCC program.
- c) Our tempered/laminated glass products that are certified by SGCC as meeting the SGCC certification program are listed in the SGCC's Certified Products Directory.
- d) Our tempered/laminated glass products that are certified by SGCC are indicated by the SGCC logo and certification number permanently marked on our products. (Added 10/26/2010)

**~SGCC® LABEL REQUIREMENTS~** (Revised 7/1/2016)

**GENERAL**

Unless the SGCC® certification label is permanently affixed to each piece of safety glazing material, it is not covered by the SGCC® certification program, and unless a specific standard (ANSI, CPSC, CAN/CSGSB) is included in the label, the product is not certified to that standard. (Revised 10/10/2012)

The permanent label must contain the correct SGCC® number, ANSI Z97.1-2015 and/or 16 CFR 1201, and/or CAN/CSGSB 12.1 (and category), the nominal thickness, (see SGCC® Guideline G.29 for international thickness standards), the letter U or L indicating certified size and the ANSI impact class (A or B). (Revised 7/1/2016)

At the discretion of the SGCC® participant, for laminated glass, the actual thickness **AND/OR** thickness class (S, H) may appear on the label. (Added 1/1/2009)

These requirements are minimum requirements for SGCC® Certification. It is the licensee's responsibility to determine if other jurisdictions, standards and codes have additional requirements such as type of glass. (Revised 10/17/2007)

For labeling purposes, a **line of demarcation** shall separate those specifications covered by the SGCC® number from any other specifications the licensee may wish to reference. For laminated products used in "Indoor Use Only" applications where no weathering data is on file with SGCC, The permanent label must include "Indoor Use Only." The SGCC® number can be used to identify both the "supplier" and "place of fabrication". Refer to SGCC® Guideline G.5 (Revised 10/21/2005)

The permanent label must be affixed to certified products ONLY at the time and place of manufacture (except for situations covered by Guideline G.18 and as stated below.) (Revised 10/25/2001)

**EXAMPLES OF LABELS CERTIFIED TO ALL THREE STANDARDS**

| <u>In inches</u>               | <u>In mm</u>                   | <u>Laminated example</u>       |
|--------------------------------|--------------------------------|--------------------------------|
| ABC Glass – Plant A (optional) | ABC Glass – Plant A (optional) | ABC Glass – Plant A (optional) |
| 16 CFR 1201 II                 | 16 CFR 1201 II                 | 16 CFR 1201 II                 |
| ANSI Z97.1-2015                | ANSI Z97.1-2015                | ANSI Z97.1-2015                |
| CAN/CSGSB 12.1-90              | CAN/CSGSB 12.1-90              | CAN/CSGSB 12.1-90              |
| 1/4 U A SGCC 9999              | 6mm U A SGCC 9999              | (S) U A SGCC 9999              |

**Labeling of Cut Sheet Safety Glazing** (refer to Guideline G.18) (Added 10/25/2001)

When a distributor or installer wishes to include the SGCC® label on pieces of safety glazing cut from properly fabricated, labeled, and SGCC® certified product, the following shall apply:

- 1.) The designation "C/F" for "Cut From" shall appear in front of the SGCC® number.
- 2.) The distributor or installer must have written permission to do so from the primary SGCC® certified producer. This written permission should address such issues as label accountability and application, differentiation between multi-source suppliers and a time frame or scope of labeling.
- 3.) Since SGCC® shall have no formal relationship with the distributor or installer, proper application and use of the SGCC® label shall be the responsibility of the SGCC® licensee producing the product.
- 4.) If the SGCC® label is not used, SGCC® has no jurisdiction.

**EXAMPLES**

| <u>SGCC® Licensee or Primary Producer</u> | <u>Authorized Distributor or Installer</u> |
|-------------------------------------------|--------------------------------------------|
| Company ABC (optional)                    | Company XYZ (optional)                     |
| Laminated Glass (optional)                | Laminated Glass (optional)                 |
| ANSI Z97.1-2015                           | ANSI Z97.1-2015                            |
| 16 CFR 1201 CII                           | 16 CFR 1201 CII                            |
| SGCC 9999 6mm U A                         | C/F SGCC 9999 6mm U A                      |

The permanent label must be affixed ONLY to safety glazing materials of the licensee which are certified in the SGCC® certification program.

The permanent label must not be sold, transferred, or otherwise disposed of in any manner other than being affixed to the licensee's certified product.

The permanent label must NOT be affixed to any product from which certification has been withdrawn or which is produced with a process basically different from the one used to manufacture the initial or prototype samples.

## **ANSI (ONLY)**

"After having successfully passed the appropriate tests in this standard, like products and materials produced in the same manner as specimens submitted per test shall be legibly and permanently marked with a label."

### **Label Content.**

The label shall contain the following information:

- 1) Supplier's name, distinctive mark or designation.
- 2) The words "American National Standard Z97.1-2015" or the characters "ANSI Z97.1-2015."
- 3) Classification of test size (L or U) and drop height class (A, B). Plastic glazing does not require drop height.
- 4) Place of fabrication (if fabricator has more than one location fabricating the product).

NOTE: Additional details and information, such as thickness and date of manufacture, are permitted.

Quoted from ANSI Z97.1. (Revised 1/1/2011)

### **Organic-Coated Glass Only.**

"Organic-coated glass materials shall be legibly and permanently marked with the words "Glaze This Side In," to indicate to the installer, inspector, or user which side of the organic-coated glass should be exposed to the elements if there is a specific side that should be exposed." Quoted from ANSI Z97.1. (Revised 10/21/2005)

## **CPSC (ONLY)**

"Any glazing material that for accelerated environmental durability tests meets only the requirements of 1201.4 (e)(ii)(c) entitled Plastic (indoor service) shall bear the statement 'INDOOR USE ONLY' as a part of the permanent label." Quoted from 16 CFR 1201.

"Organic-coated glass that has been tested for environmental exposure from one side only must bear a permanent label on the coating stating 'GLAZE THIS SIDE IN' and shall bear in the central 50 percent of the surface in letters at least 3" (inches) high: 'SEE PERMANENT LABEL FOR IMPORTANT MOUNTING INSTRUCTIONS.' The latter message shall be attached to either side of the glazing by any means which shall ensure the message will remain in place until installation." Quoted from 16 CFR 1201.

## **CPSC ACT LABELING REQUIREMENTS**

The following information is provided for the guidance of the licensee and is not a requirement of the SGCC® Certification Program.

The Consumer Product Safety Act defines a private labeler and permits private labeling as long as a manufacturer is identified, which can be in code. A "private labeler" means an owner of a brand or trademark on the label of a consumer product, which bears a private label.

Pursuant CPSC Advisory Opinion, dated April 12, 1984, a label on the material or product is acceptable as a certificate of compliance meeting the requirements of the CPSC if the label contains the same information required of a certificate of compliance. This information must include the date of manufacture, the place of manufacture, and the name of the manufacturer, importer, or private labeler. The certificate of compliance may also be a separate document, which accompanies the material or product or is otherwise furnished to each distributor or retailer.

With respect to the CPSC requirement that the certificate of compliance name the manufacturer, a label meets that requirement if it includes a suitable identification of the manufacturer of the product (unless the product bears a private label), in which case it shall identify the private labeler and shall also contain a code mark which shall permit the seller of such product to identify the manufacturer thereof to the purchaser upon his request.

As set forth in SGCC® certification guideline G.5, the SGCC® number designates the name of the licensee and also the location of the manufacturing plant, however, it does not designate the date of manufacture.

## Classified Tempered Glass Patterns Key (SD-100)

**S (Shallow)****M (Medium)****D (Deep)****X (Pattern available but pattern depth not yet classified.)****\*Indicates EN Standard Thickness Tolerance**

| Pattern Name      | Manufacturer | Thickness & Pattern Depth |      |      |      |      |     |     |      |     |     |  |
|-------------------|--------------|---------------------------|------|------|------|------|-----|-----|------|-----|-----|--|
| inches            |              | 1/8                       | 5/32 | 3/16 | n/a  | 7/32 | 1/4 | n/a | 5/16 | 3/8 | 1/2 |  |
| mm                |              | 3                         | 4    | 5    | 0.21 | 5.5  | 6   | 7   | 8    | 10  | 12  |  |
| Abstracto         | Saint Gobain |                           | D    |      |      |      |     |     |      |     |     |  |
| Altdeutsch F      | Saint Gobain |                           | S    |      |      |      |     |     |      |     |     |  |
| Altdeutsch K      | Saint Gobain |                           | S    |      |      |      |     |     |      |     |     |  |
| Antique           | Saint Gobain |                           | S    |      |      |      |     |     |      |     |     |  |
| Aqua              | AGC          | S                         | S    | S    |      |      | S   |     |      |     |     |  |
| Aquatex           | AGC          | S                         | S    | S    | S    | S    | S   |     |      |     |     |  |
| Aqui              | AGC          | S                         | S    | S    |      |      | S   |     |      | S   |     |  |
| Arctic*           | Pilkington   |                           | D    |      |      |      |     |     |      |     |     |  |
| Arena C/SR Arena  | Saint Gobain | S                         | S    |      |      |      | S   |     |      |     |     |  |
| Austral*          | Pilkington   |                           | M    |      |      |      |     |     |      |     |     |  |
| Autumn*           | Pilkington   |                           | M    |      |      |      | X   |     |      |     |     |  |
| Autumn            | Saint Gobain |                           |      |      |      |      | S   |     |      |     |     |  |
| Bamboo            | AGC          |                           |      | D    |      |      |     |     |      |     |     |  |
| Bamboo            | Guardian     |                           |      |      |      |      |     |     |      | S   |     |  |
| Bubble            | Guardian     | S                         | S    | S    |      | S    | S   |     |      | S   |     |  |
| Cascade           | AGC          |                           |      |      | S    | S    |     |     |      |     |     |  |
| Cast              | Saint Gobain |                           |      |      |      |      |     |     |      | S   |     |  |
| Chantilly*        | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |  |
| Charcoal Sticks*  | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |  |
| Chinchilla        | AGC          |                           |      | S    | S    | S    |     |     |      |     |     |  |
| Citrus            | AGC          | S                         | S    | S    |      |      |     |     |      |     |     |  |
| Contora*          | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |  |
| Cotswold*         | Pilkington   |                           | M    |      |      |      | X   |     |      |     |     |  |
| Cross Reeded      | AGC          |                           | D    |      |      |      | M   |     |      |     |     |  |
| Delta             | AGC          |                           | D    |      |      |      | M   |     |      |     |     |  |
| Digital*          | Pilkington   |                           |      |      |      |      |     |     |      |     |     |  |
| Esto              | Guardian     |                           |      |      |      |      | M   |     |      | M   | M   |  |
| Estriado/SR Estr  | Saint Gobain |                           | M    |      |      |      | M   |     |      |     |     |  |
| Etre              | Guardian     |                           | S    |      |      |      | S   |     |      | S   | S   |  |
| Everglade*        | Pilkington   |                           | M    |      |      |      | X   |     |      |     |     |  |
| Flax              | AGC          | M                         | M, S | S    | S    | S    |     |     |      |     |     |  |
| Flemish*          | Pilkington   |                           | S    |      |      |      | M   |     |      |     |     |  |
| Floralite         | Guardian     |                           | M    |      |      |      |     |     |      |     |     |  |
| Florex            | AGC          | M                         | M    |      |      |      |     |     |      |     |     |  |
| Florielle*        | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |  |
| Flutes            | AGC          |                           |      | D    |      |      | D   |     |      |     |     |  |
| Flutex            | AGC          |                           |      | D    |      |      |     |     |      | M   |     |  |
| Glacier           | AGC          | M                         | M    | D    |      |      | D   |     |      | M   |     |  |
| Gluechip          | Guardian     | M                         | M    | M    |      | M    | M   |     |      |     |     |  |
| Ground Glass      | AGC          | S                         | S    | S    |      |      | S   |     |      |     |     |  |
| Hammered          | AGC          | S                         | S    | S    |      |      | S   |     |      |     |     |  |
| Illusions         | AGC          | S                         | S    | S    |      |      | S   |     |      |     |     |  |
| Ima               | Guardian     |                           |      |      |      |      | M   |     |      | M   | M   |  |
| Industrex         | AGC          | S                         | S    | S    | S    | S    | S   |     |      |     |     |  |
| Kathedral Klein   | AGC          | S                         | S    | S    |      |      | S   |     |      |     |     |  |
| Kathedral Max     | Saint Gobain |                           | S    | S    |      |      |     | S   |      |     |     |  |
| Kathedral Min     | Saint Gobain |                           | S    |      |      |      |     |     |      |     |     |  |
| Konfeta           | AGC          |                           | M    |      |      |      |     |     |      |     |     |  |
| Krystal Flutes    | AGC          |                           |      | D    |      |      |     |     |      |     |     |  |
| Krystal Illusions | AGC          | S                         | S    | S    |      |      | S   |     |      |     |     |  |
| Krystal Industrex | AGC          | S                         | S    | S    |      |      | S   |     |      | S   |     |  |
| Krystal Serenity  | AGC          | S                         | S    | S    |      |      | S   |     |      |     |     |  |
| Krystal Storm     | AGC          |                           | S    | S    |      |      | S   |     |      | S   |     |  |
| Laliva weiss      | Saint Gobain |                           | S    |      |      |      |     |     |      |     |     |  |
| Leaf              | AGC          | M                         |      |      |      |      |     |     |      |     |     |  |
| Listral A         | Saint Gobain |                           | S    |      |      |      |     |     |      |     |     |  |
| Listral D         | Saint Gobain |                           | M    |      |      |      |     |     |      |     |     |  |
| Listral F         | Saint Gobain |                           | M    |      |      |      |     |     |      |     |     |  |
| Listral K         | Saint Gobain |                           | S    |      |      |      |     |     |      |     |     |  |

| Pattern Name    | Manufacturer | Thickness & Pattern Depth |      |      |      |      |     |     |      |     |     |
|-----------------|--------------|---------------------------|------|------|------|------|-----|-----|------|-----|-----|
| inches          |              | 1/8                       | 5/32 | 3/16 | n/a  | 7/32 | 1/4 | n/a | 5/16 | 3/8 | 1/2 |
| mm              |              | 3                         | 4    | 5    | 0.21 | 5.5  | 6   | 7   | 8    | 10  | 12  |
| Listral M       | Saint Gobain |                           | D    |      |      |      |     |     |      |     |     |
| Lozenge         | Pilkington   |                           |      | D    |      |      |     |     |      |     |     |
| Madera          | Saint Gobain |                           | D    |      |      |      |     |     |      |     |     |
| Maris           | Saint Gobain |                           | M    |      |      |      |     |     |      |     |     |
| Master-Carre    | Saint Gobain |                           | M    |      |      |      |     |     |      |     |     |
| Master-Carre    | Saint Gobain |                           | M    |      |      |      | M   |     | M    | M   |     |
| Master-Lens w   | Saint Gobain |                           | D    |      |      |      | D   |     | D    |     |     |
| Master-Ligne    | Saint Gobain |                           | M    |      |      |      | M   |     | M    |     |     |
| Master-Point    | Saint Gobain |                           | M    |      |      |      | M   |     | M    |     |     |
| Master-Ray      | Saint Gobain |                           | D    |      |      |      | D   |     | D    |     |     |
| Master-Shine    | Saint Gobain |                           | M    |      |      |      | M   |     | M    | M   |     |
| Mayflower*      | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |
| Minster*        | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |
| Monumental M    | Saint Gobain |                           | D    |      |      |      |     |     |      |     |     |
| Monumental S    | Saint Gobain |                           | M    |      |      |      |     |     |      |     |     |
| Morisco*        | Pilkington   |                           | M    |      |      |      |     |     |      |     |     |
| Niagara         | Guardian     | M                         | M    | M    |      | M    | M   |     |      | M   | M   |
| Oak*            | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |
| Optica          | Saint Gobain |                           | M    |      |      |      |     |     |      |     |     |
| P-516           | Guardian     | S                         | S    | S    | S    | S    | S   |     |      | S   | S   |
| Pattern 62      | AGC          | S                         | S    | S    | S    | S    |     |     |      |     |     |
| Pattern 73      | AGC          | M                         | M    |      |      |      |     |     |      |     |     |
| Pebbles         | AGC          |                           | M    |      |      |      | M   |     |      |     |     |
| Pelerine*       | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |
| Pixels          | AGC          |                           | M    |      |      |      |     |     |      |     |     |
| Rain            | AGC          | M                         | M    | M    |      |      | S   |     |      | S   |     |
| Rattan*         | Pilkington   | M                         |      |      |      |      |     |     |      |     |     |
| Rayado*         | Pilkington   |                           |      | S    |      |      |     |     |      |     |     |
| Reed            | Saint Gobain |                           |      |      |      |      | M   |     |      |     |     |
| Reeded*         | Pilkington   |                           | D    |      |      |      | M   |     |      |     |     |
| Sahara          | Saint Gobain |                           | S    |      |      |      |     |     |      |     |     |
| Seashell        | AGC          |                           |      | M    |      | M    |     |     |      |     |     |
| Serenity        | AGC          | S                         | S    | S    |      |      | S   |     |      |     |     |
| Silvit          | Saint Gobain |                           | D    |      |      |      |     |     | D    | D   |     |
| Skytex          | AGC          |                           |      |      | S    |      |     |     |      |     |     |
| Solatex         | AGC          | S                         | S    | S    |      |      |     |     |      |     |     |
| Solite          | AGC          | S                         | S    | S    |      |      |     |     |      |     |     |
| Sparkel*        | Pilkington   |                           | D    |      |      |      |     |     |      |     |     |
| Spotlyte        | Saint Gobain |                           | D    |      |      |      |     |     |      |     |     |
| Spraylite       | Guardian     | S                         | S    | S    | S    | S    | S   |     |      | S   |     |
| SR Listral L    | Saint Gobain |                           |      |      |      |      | S   |     | S    | S   |     |
| Stippolite*     | Pilkington   |                           | S    |      |      |      | X   |     |      | X   |     |
| Storm           | AGC          |                           | S    | S    |      |      | S   |     |      | S   |     |
| Sunadex         | AGC          |                           |      | S    |      |      |     |     |      |     |     |
| Sycamore*       | Pilkington   |                           | S    |      |      |      | X   |     |      |     |     |
| Taffeta*        | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |
| Tetra           | Guardian     |                           | M    |      |      |      |     |     |      |     |     |
| Textured Flutex | AGC          |                           |      | D    |      |      |     |     |      | M   |     |
| Thela           | Saint Gobain |                           | S    |      |      |      | S   | S   |      |     |     |
| Velvex          | AGC          | S                         | S    | S    | S    | S    |     |     |      |     |     |
| Vison           | Saint Gobain |                           | S    |      |      |      | S   |     | S    |     |     |
| Warwick*        | Pilkington   |                           | S    |      |      |      |     |     |      |     |     |
| Waterdrop       | Saint Gobain |                           | M    |      |      |      |     |     |      |     |     |
| Wired 1/2"      | Saint Gobain |                           |      |      |      |      | S   |     |      |     |     |
| Wired 1/2"      | Saint Gobain |                           |      |      |      |      |     | S   |      |     |     |
| Wired Abstract  | Saint Gobain |                           |      |      |      |      |     | M   |      |     |     |
| Wired Listral   | Saint Gobain |                           |      |      |      |      | S   |     |      |     |     |
| Wired Waterdrop | Saint Gobain |                           |      |      |      |      |     | M   |      |     |     |
| Yacare*         | Pilkington   |                           | M    |      |      |      |     |     |      |     |     |
| Zefiro Weiss    | Saint Gobain |                           | M    |      |      |      |     |     |      |     |     |

July 1, 2016

***Certified Products-Numerical Sequence***

| <b>SGCC No.</b> |                                      | <b>SGCC No.</b> |                                       | <b>SGCC No.</b> |                                      |
|-----------------|--------------------------------------|-----------------|---------------------------------------|-----------------|--------------------------------------|
| 12              | Virginia Glass Products Corp.        | 1332            | SCHOTT Gemtron - Sweetwater           | 1790            | Trulite Glass and Aluminum Solutions |
| 14              | Virginia Glass Products Corp.        | 1334            | SCHOTT Gemtron - Sweetwater           | 1803            | Guardian Industries Corp.            |
| 89              | AGC Flat Glass North America         | 1403            | Viracon Inc.                          | 1804            | Cardinal TG                          |
| 90              | AGC Flat Glass North America         | 1404            | Viracon Inc.                          | 1805            | Cardinal TG                          |
| 93              | Virginia Glass Products Corp.        | 1416            | Nashville Tempered Glass Corp.        | 1806            | Cardinal TG                          |
| 94              | Virginia Glass Products Corp.        | 1417            | Nashville Tempered Glass Corp.        | 1807            | Cardinal TG                          |
| 95              | Virginia Glass Products Corp.        | 1422            | SCHOTT Gemtron - Sweetwater           | 1826            | Guardian Industries Corp.            |
| 131             | Guardian Industries Corp.            | 1424            | SCHOTT Gemtron - Sweetwater           | 1827            | Cardinal IG                          |
| 220             | AGC Flat Glass North America         | 1467            | Nashville Tempered Glass Corp.        | 1828            | Cardinal IG                          |
| 249             | PPG Inds. Inc.                       | 1477            | SCHOTT Gemtron - Sweetwater           | 1829            | Cardinal IG                          |
| 250             | PPG Inds. Inc.                       | 1508            | Viracon Inc.                          | 1830            | Cardinal IG                          |
| 300             | Guardian Fabrication Inc.            | 1509            | Viracon Inc.                          | 1831            | Cardinal IG                          |
| 382             | PPG Inds. Inc.                       | 1546            | Oldcastle BuildingEnvelope®           | 1834            | Cardinal IG                          |
| 471             | Guardian Fabrication Inc.            | 1547            | Oldcastle BuildingEnvelope®           | 1841            | Cardinal IG                          |
| 514             | Oldcastle BuildingEnvelope®          | 1548            | Oldcastle BuildingEnvelope®           | 1842            | Cardinal IG                          |
| 515             | Oldcastle BuildingEnvelope®          | 1549            | Oldcastle BuildingEnvelope®           | 1843            | Cardinal IG                          |
| 516             | Oldcastle BuildingEnvelope®          | 1550            | Oldcastle BuildingEnvelope®           | 1844            | Cardinal IG                          |
| 520             | Anthony International                | 1551            | Oldcastle BuildingEnvelope®           | 1845            | Cardinal IG                          |
| 587             | AGC Flat Glass North America         | 1555            | Swift Glass Co., Inc.                 | 1865            | Guardian Industries Corp.            |
| 598             | AGC Flat Glass North America         | 1556            | Swift Glass Co., Inc.                 | 1871            | Solar Seal Massachusetts             |
| 630             | Oldcastle BuildingEnvelope®          | 1557            | Swift Glass Co., Inc.                 | 1882            | Guardian Industries Corp.            |
| 631             | Guardian Industries Corp.            | 1558            | Swift Glass Co., Inc.                 | 1889            | Commercial Insulating Glass Co.      |
| 662             | Guardian Fabrication Inc.            | 1559            | Swift Glass Co., Inc.                 | 1890            | Commercial Insulating Glass Co.      |
| 675             | PPG Inds. Inc.                       | 1575            | Custom Glass Solutions Millbury Corp. | 1891            | Commercial Insulating Glass Co.      |
| 862             | Trulite Glass and Aluminum Solutions |                 |                                       | 1901            | EFCO Corporation                     |
| 863             | Trulite Glass and Aluminum Solutions | 1576            | Custom Glass Solutions Millbury Corp. | 1902            | EFCO Corporation                     |
| 865             | Trulite Glass and Aluminum Solutions |                 |                                       | 1910            | Coral Industries Glass Division      |
| 866             | Trulite Glass and Aluminum Solutions | 1577            | Custom Glass Solutions Millbury Corp. | 1911            | Coral Industries Glass Division      |
| 933             | Guardian Industries Corp.            |                 |                                       | 1921            | Cardinal CG                          |
| 934             | Guardian Industries Corp.            | 1607            | Guardian Fabrication Inc.             | 1922            | Cardinal CG                          |
| 935             | Oldcastle BuildingEnvelope®          | 1608            | Oldcastle BuildingEnvelope®           | 1923            | Cardinal CG                          |
| 955             | AGC Flat Glass North America         | 1609            | Oldcastle BuildingEnvelope®           | 1924            | Cardinal CG                          |
| 968             | Guardian Industries Corp.            | 1630            | Guardian Industries Corp.             | 1939            | Solar Seal Massachusetts             |
| 969             | Guardian Industries Corp.            | 1631            | Guardian Industries Corp.             | 1964            | Coral Industries Glass Division      |
| 970             | Guardian Industries Corp.            | 1632            | Guardian Industries Corp.             | 1979            | Kohler Company                       |
| 971             | Guardian Industries Corp.            | 1633            | Guardian Industries Corp.             | 1980            | Kohler Company                       |
| 999             | Anthony International                | 1634            | Guardian Industries Corp.             | 1981            | Kohler Company                       |
| 1000            | Anthony International                | 1635            | Guardian Industries Corp.             | 1982            | Kohler Company                       |
| 1035            | Solar Seal Massachusetts             | 1637            | Viracon Inc.                          | 1983            | Kohler Company                       |
| 1036            | Solar Seal Massachusetts             | 1677            | Contour Industries, Inc.              | 1984            | Kohler Company                       |
| 1037            | Solar Seal Massachusetts             | 1678            | Contour Industries, Inc.              | 1985            | Cardinal CG                          |
| 1110            | PPG Inds., Inc.                      | 1680            | Contour Industries, Inc.              | 1986            | Cardinal CG                          |
| 1111            | PPG Inds., Inc.                      | 1683            | Guardian Industries Corp.             | 1987            | Cardinal CG                          |
| 1112            | PPG Inds., Inc.                      | 1702            | AGC Flat Glass North America          | 1988            | Cardinal CG                          |
| 1113            | PPG Inds., Inc.                      | 1703            | AGC Flat Glass North America          | 1991            | Berkowitz, J.E.                      |
| 1139            | AGC Flat Glass North America         | 1704            | AGC Flat Glass North America          | 1992            | Saint-Gobain SOVIS                   |
| 1201            | SCHOTT Gemtron - Sweetwater          | 1705            | AGC Flat Glass North America          | 1993            | Tecnoglass S.A.                      |
| 1216            | Guardian Fabrication Inc.            | 1754            | All Team Glass & Mirror, Ltd.         | 1994            | Tecnoglass S.A.                      |
| 1235            | Guardian Fabrication Inc.            | 1755            | All Team Glass & Mirror, Ltd.         | 1995            | Tecnoglass S.A.                      |
| 1248            | Guardian Industries Corp.            | 1756            | All Team Glass & Mirror, Ltd.         | 1996            | Oldcastle BuildingEnvelope®          |
| 1249            | Guardian Industries Corp.            | 1757            | All Team Glass & Mirror, Ltd.         |                 | Canada Inc.                          |
| 1250            | Guardian Industries Corp.            | 1758            | All Team Glass & Mirror, Ltd.         | 1997            | Oldcastle BuildingEnvelope®          |
| 1251            | Guardian Industries Corp.            | 1784            | Trulite Glass and Aluminum Solutions  |                 | Canada Inc.                          |
| 1253            | Guardian Industries Corp.            | 1785            | Trulite Glass and Aluminum Solutions  | 1998            | Consolidated Glass Corp.             |
| 1301            | Guardian Industries Corp.            | 1786            | Trulite Glass and Aluminum Solutions  | 1999            | Consolidated Glass Corp.             |
| 1303            | Guardian Industries Corp.            | 1787            | Trulite Glass and Aluminum Solutions  | 2002            | Consolidated Glass Corp.             |
| 1304            | Guardian Industries Corp.            | 1788            | Trulite Glass and Aluminum Solutions  | 2003            | Consolidated Glass Corp.             |

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| <b>SGCC No.</b> |                                            | <b>SGCC No.</b> |                              | <b>SGCC No.</b> |                                                              |
|-----------------|--------------------------------------------|-----------------|------------------------------|-----------------|--------------------------------------------------------------|
| 2004            | Consolidated Glass Corp.                   | 2212            | Oldcastle BuildingEnvelope®  | 2397            | Cardinal IG                                                  |
| 2005            | Consolidated Glass Corp.                   | 2213            | Oldcastle BuildingEnvelope®  | 2399            | Cardinal IG                                                  |
| 2007            | Cardinal CG                                | 2214            | Oldcastle BuildingEnvelope®  | 2417            | Nashville Tempered Glass Corp.                               |
| 2008            | Cardinal CG                                | 2215            | Oldcastle BuildingEnvelope®  | 2420            | Nashville Tempered Glass Corp.                               |
| 2009            | Cardinal CG                                | 2216            | Oldcastle BuildingEnvelope®  | 2423            | Valentini Glass & Components srl                             |
| 2010            | Cardinal CG                                | 2226            | GGI Glass Distributors Corp. | 2426            | PGT Industries                                               |
| 2011            | Cardinal CG                                | 2227            | GGI Glass Distributors Corp. | 2432            | Changshu Zhongxin Bldg. Mat. Co.                             |
| 2012            | Cardinal CG                                | 2228            | GGI Glass Distributors Corp. | 2434            | Kohler Company                                               |
| 2013            | Cardinal CG                                | 2231            | Cardinal IG                  | 2445            | Goldray Industries Ltd.                                      |
| 2015            | Prelco Inc.                                | 2232            | Cardinal IG                  | 2446            | Goldray Industries Ltd.                                      |
| 2020            | Guardian Industries Corp.                  | 2233            | Cardinal IG                  | 2447            | Goldray Industries Ltd.                                      |
| 2021            | Guardian Industries Corp.                  | 2234            | Cardinal IG                  | 2448            | Goldray Industries Ltd.                                      |
| 2022            | Guardian Industries Corp.                  | 2235            | Cardinal IG                  | 2449            | Goldray Industries Ltd.                                      |
| 2023            | Guardian Industries Corp.                  | 2259            | Guardian Industries Corp.    | 2451            | Guardian Fabrication Inc.                                    |
| 2024            | Guardian Industries Corp.                  | 2260            | Guardian Industries Corp.    | 2453            | Anthony International                                        |
| 2032            | Cameron Glass, Inc.                        | 2261            | Guardian Industries Corp.    | 2455            | Cameron Glass, Inc.                                          |
| 2033            | Cameron Glass, Inc.                        | 2262            | Guardian Industries Corp.    | 2458            | Guardian Industries Corp.                                    |
| 2034            | Prelco Inc.                                | 2282            | GGI Glass Distributors Corp. | 2459            | Guardian Industries Corp.                                    |
| 2035            | Prelco Inc.                                | 2285            | Cardinal IG                  | 2460            | Guardian Industries Corp.                                    |
| 2048            | Prelco Inc.                                | 2286            | Cardinal IG                  | 2462            | Cardinal LG                                                  |
| 2050            | Intigral                                   | 2287            | Tecnoglass S.A.              | 2467            | United Plate Glass Co., Inc.                                 |
| 2051            | Intigral                                   | 2289            | Anthony International        | 2468            | United Plate Glass Co., Inc.                                 |
| 2052            | Intigral                                   | 2293            | Cardinal CG                  | 2469            | United Plate Glass Co., Inc.                                 |
| 2055            | Intigral                                   | 2294            | Cardinal CG                  | 2470            | United Plate Glass Co., Inc.                                 |
| 2057            | Patio Enclosures                           | 2295            | Cardinal CG                  | 2471            | United Plate Glass Co., Inc.                                 |
| 2062            | Oldcastle BuildingEnvelope®<br>Canada Inc. | 2296            | Cardinal CG                  | 2481            | SAAND Toronto                                                |
| 2063            | Oldcastle BuildingEnvelope®<br>Canada Inc. | 2305            | Anthony International        | 2482            | SAAND Toronto                                                |
| 2067            | Cardinal CG                                | 2306            | Anthony International        | 2484            | SAAND Toronto                                                |
| 2068            | Cardinal CG                                | 2307            | Anthony International        | 2488            | Kawneer - (Cranberry) a division of<br>Alcoa                 |
| 2069            | Cardinal CG                                | 2310            | Viracon Inc.                 | 2489            | Kawneer - (Cranberry) a division of<br>Alcoa                 |
| 2070            | Cardinal CG                                | 2311            | Viracon Inc.                 | 2490            | Kawneer - (Cranberry) a division of<br>Alcoa                 |
| 2071            | Cardinal CG                                | 2314            | Viracon Inc.                 | 2494            | Nashville Tempered Glass Corp.                               |
| 2074            | Oldcastle BuildingEnvelope®                | 2317            | Cardinal IG                  | 2497            | Nashville Tempered Glass Corp.                               |
| 2133            | Tecnoglass S.A.                            | 2318            | Cardinal IG                  | 2498            | Multiver                                                     |
| 2134            | Tecnoglass S.A.                            | 2319            | Cardinal IG                  | 2499            | Multiver                                                     |
| 2135            | Tecnoglass S.A.                            | 2320            | Cardinal IG                  | 2501            | Cameron Glass, Inc.                                          |
| 2143            | EFCO Corporation                           | 2321            | Cardinal IG                  | 2507            | AGC Glass Co. North America<br>Building Products Fabrication |
| 2144            | Coral Industries Glass Division            | 2322            | Cardinal IG                  | 2509            | AGC Glass Co. North America<br>Building Products Fabrication |
| 2145            | Coral Industries Glass Division            | 2323            | Cardinal IG                  | 2510            | AGC Glass Co. North America<br>Building Products Fabrication |
| 2146            | Cardinal CG                                | 2328            | Cardinal IG                  | 2519            | Guardian Industries Corp.                                    |
| 2176            | Cardinal IG                                | 2329            | Cardinal IG                  | 2543            | Oldcastle BuildingEnvelope®<br>Canada Inc.                   |
| 2177            | Cardinal IG                                | 2330            | Cardinal IG                  | 2544            | Oldcastle BuildingEnvelope®<br>Canada Inc.                   |
| 2178            | Cardinal IG                                | 2331            | Cardinal IG                  | 2545            | Guardian Industries Corp.                                    |
| 2179            | Cardinal IG                                | 2352            | Anthony International        | 2547            | Techni-Glass, Inc.                                           |
| 2182            | Virginia Glass Products Corp.              | 2353            | Anthony International        | 2548            | Techni-Glass, Inc.                                           |
| 2185            | Glaz-Tech Industries, Inc.                 | 2354            | Consolidated Glass Corp.     | 2549            | Techni-Glass, Inc.                                           |
| 2186            | Glaz-Tech Industries, Inc.                 | 2355            | Consolidated Glass Corp.     | 2550            | Techni-Glass, Inc.                                           |
| 2187            | Glaz-Tech Industries, Inc.                 | 2357            | Cardinal CG                  | 2569            | Bendheim Wall Systems                                        |
| 2189            | Glaz-Tech Industries, Inc.                 | 2358            | Cardinal CG                  | 2570            | Bendheim Wall Systems                                        |
| 2193            | Glaz-Tech Industries, Inc.                 | 2359            | Cardinal CG                  | 2572            | Intex Glass (Xiamen) Co., Ltd.                               |
| 2203            | Cardinal IG                                | 2360            | Cardinal CG                  |                 |                                                              |
| 2204            | Cardinal IG                                | 2365            | Tecnoglass S.A.              |                 |                                                              |
| 2205            | Cardinal IG                                | 2381            | Prelco Inc.                  |                 |                                                              |
| 2210            | Oldcastle BuildingEnvelope®                | 2382            | Guardian Industries Corp.    |                 |                                                              |
| 2211            | Oldcastle BuildingEnvelope®                | 2389            | PGT Industries               |                 |                                                              |
|                 |                                            | 2390            | PGT Industries               |                 |                                                              |
|                 |                                            | 2391            | PGT Industries               |                 |                                                              |



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|-----------------|-----------------------------------------------------------|-----------------|----------------------------------------------------|-----------------|--------------------------------------|
| 2573            | Intex Glass (Xiamen) Co., Ltd.                            | 2733            | Glass Dynamics, Inc.                               | 2954            | Cardinal CG                          |
| 2574            | Intex Glass (Xiamen) Co., Ltd.                            | 2734            | Glass Dynamics, Inc.                               | 2955            | Cardinal CG                          |
| 2575            | Intex Glass (Xiamen) Co., Ltd.                            | 2748            | Kawneer - (Cranberry) a division of Alcoa          | 2956            | Cardinal CG                          |
| 2576            | Intex Glass (Xiamen) Co., Ltd.                            | 2751            | Prelco Inc.                                        | 2957            | Syracuse Glass Co., Inc.             |
| 2577            | Intex Glass (Xiamen) Co., Ltd.                            | 2769            | Saint-Gobain SOVIS                                 | 2958            | Syracuse Glass Co., Inc.             |
| 2578            | Amsco Windows                                             | 2779            | Shanghai SYP Building Glass                        | 2959            | Trulite Glass and Aluminum Solutions |
| 2580            | Amsco Windows                                             | 2780            | Shanghai SYP Building Glass                        | 2960            | Trulite Glass and Aluminum Solutions |
| 2581            | Amsco Windows                                             | 2787            | Trulite Glass and Aluminum Solutions               | 2961            | SIGCO, Inc.                          |
| 2582            | Amsco Windows                                             | 2788            | Trulite Glass and Aluminum Solutions               | 2962            | SIGCO, Inc.                          |
| 2584            | Amsco Windows                                             | 2789            | Trulite Glass and Aluminum Solutions               | 2963            | SIGCO, Inc.                          |
| 2589            | Engineered Glass Products, L.L.C.                         | 2790            | All Team Glass & Mirror, Ltd.                      | 2964            | SIGCO, Inc.                          |
| 2590            | Engineered Glass Products, L.L.C.                         | 2831            | Cardinal IG                                        | 2965            | SIGCO, Inc.                          |
| 2603            | Guardian Fabrication Inc.                                 | 2833            | Cardinal IG                                        | 2966            | SIGCO, Inc.                          |
| 2629            | Multiver                                                  | 2834            | Cardinal IG                                        | 2967            | SIGCO, Inc.                          |
| 2644            | Coral Industries Glass Division                           | 2840            | Trulite Glass and Aluminum Solutions               | 2968            | Quaker Window Products, Inc.         |
| 2646            | Berkowitz, J.E.                                           | 2842            | Milgard Tempering                                  | 2969            | Quaker Window Products, Inc.         |
| 2647            | Berkowitz, J.E.                                           | 2850            | Eckelt Glas GmbH                                   | 2970            | Quaker Window Products, Inc.         |
| 2649            | Guardian Industries Corp.                                 | 2851            | Eckelt Glas GmbH                                   | 2975            | Techni-Glass, Inc.                   |
| 2654            | Syracuse Glass Co., Inc.                                  | 2852            | Eckelt Glas GmbH                                   | 2976            | Cardinal LG                          |
| 2656            | Syracuse Glass Co., Inc.                                  | 2853            | Eckelt Glas GmbH                                   | 2980            | AGC Flat Glass North America         |
| 2657            | Syracuse Glass Co., Inc.                                  | 2854            | Eckelt Glas GmbH                                   | 2981            | Quality Glass & Mirror, Inc.         |
| 2661            | Downey Glass Industries, LLC                              | 2855            | Eckelt Glas GmbH                                   | 2982            | Quality Glass & Mirror, Inc.         |
| 2662            | Downey Glass Industries, LLC                              | 2857            | Cardinal IG                                        | 2983            | Quality Glass & Mirror, Inc.         |
| 2663            | Downey Glass Industries, LLC                              | 2858            | Cardinal IG                                        | 2984            | Quality Glass & Mirror, Inc.         |
| 2664            | Downey Glass Industries, LLC                              | 2859            | Cardinal IG                                        | 2985            | Quaker Window Products, Inc.         |
| 2665            | Downey Glass Industries, LLC                              | 2878            | Cardinal IG                                        | 2986            | Quaker Window Products, Inc.         |
| 2666            | AGC Glass Co. North America Building Products Fabrication | 2879            | Cardinal IG                                        | 2987            | Changshu Hard Glass Co., Ltd.        |
| 2678            | Kawneer - (Cranberry) a division of Alcoa                 | 2880            | Cardinal IG                                        | 2988            | Changshu Hard Glass Co., Ltd.        |
| 2684            | Paragon Tempered Glass                                    | 2881            | Cardinal IG                                        | 3001            | Solar Seal Massachusetts             |
| 2685            | Paragon Tempered Glass                                    | 2884            | Oldcastle BuildingEnvelope® Canada Inc.            | 3002            | Guardian Industries Corp.            |
| 2686            | Paragon Tempered Glass                                    | 2885            | Oldcastle BuildingEnvelope® Canada Inc.            | 3003            | Guardian Industries Corp.            |
| 2687            | Paragon Tempered Glass                                    | 2887            | Simonton Windows                                   | 3015            | Patio Enclosures                     |
| 2688            | Paragon Tempered Glass                                    | 2888            | Simonton Windows                                   | 3017            | Dlubak Corporation                   |
| 2691            | Nashville Tempered Glass LLC                              | 2889            | TianJin Dong Sung Home Building Materials Co. Ltd. | 3018            | Dlubak Corporation                   |
| 2692            | Nashville Tempered Glass LLC                              | 2890            | TianJin Dong Sung Home Building Materials Co. Ltd. | 3019            | Dlubak Corporation                   |
| 2693            | Nashville Tempered Glass LLC                              | 2894            | Tecnoglass S.A.                                    | 3023            | SAAND Toronto                        |
| 2694            | Nashville Tempered Glass LLC                              | 2898            | Valentini Glass & Components srl                   | 3024            | Guardian Fabrication Inc.            |
| 2698            | Engineered Glass Products, L.L.C.                         | 2904            | Changshu Hard Glass Co., Ltd.                      | 3025            | Intex Glass (Xiamen) Co., Ltd.       |
| 2699            | Cardinal CG                                               | 2909            | Cardinal FG                                        | 3027            | Anthony International                |
| 2700            | Cardinal CG                                               | 2910            | Cardinal FG                                        | 3028            | SIGCO, Inc.                          |
| 2701            | Cardinal CG                                               | 2911            | Cardinal FG                                        | 3039            | American Shower Door                 |
| 2702            | Cardinal CG                                               | 2912            | Cardinal FG                                        | 3040            | American Shower Door                 |
| 2705            | Cardinal CG                                               | 2918            | Kohler Company                                     | 3041            | American Shower Door                 |
| 2713            | Prelco Inc.                                               | 2919            | Cardinal IG                                        | 3042            | American Shower Door                 |
| 2715            | Kawneer - (Cranberry) a division of Alcoa                 | 2920            | Cardinal IG                                        | 3043            | American Shower Door                 |
| 2716            | Kawneer - (Cranberry) a division of Alcoa                 | 2921            | Cardinal IG                                        | 3053            | Xinyi Group (Glass) Co., Ltd.        |
| 2719            | Kawneer - (Cranberry) a division of Alcoa                 | 2922            | Cardinal IG                                        | 3054            | Xinyi Group (Glass) Co., Ltd.        |
| 2728            | Glass Dynamics, Inc.                                      | 2923            | Cardinal IG                                        | 3055            | Xinyi Group (Glass) Co., Ltd.        |
| 2729            | Glass Dynamics, Inc.                                      | 2924            | Cardinal IG                                        | 3056            | Xinyi Group (Glass) Co., Ltd.        |
| 2730            | Glass Dynamics, Inc.                                      | 2928            | GGI Glass Distributors Corp.                       | 3060            | Techni-Glass, Inc.                   |
| 2731            | Glass Dynamics, Inc.                                      | 2944            | Coral Industries Glass Division                    | 3061            | Techni-Glass, Inc.                   |
| 2732            | Glass Dynamics, Inc.                                      | 2945            | Coral Industries Glass Division                    | 3062            | Techni-Glass, Inc.                   |
|                 |                                                           |                 |                                                    | 3067            | SCHOTT Gemtron (Canada) Corporation  |
|                 |                                                           |                 |                                                    | 3068            | Cardinal IG                          |
|                 |                                                           |                 |                                                    | 3069            | Cardinal IG                          |
|                 |                                                           |                 |                                                    | 3070            | Cardinal IG                          |

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| <b>SGCC No.</b> |                                                           | <b>SGCC No.</b> |                                                    | <b>SGCC No.</b> |                                                           |
|-----------------|-----------------------------------------------------------|-----------------|----------------------------------------------------|-----------------|-----------------------------------------------------------|
| 3293            | Oldcastle BuildingEnvelope®                               | 3454            | Glass Design of Miami, Inc.                        | 3556            | Al Abbar Architectural Glass                              |
| 3294            | Oldcastle BuildingEnvelope®                               | 3455            | Cardinal TG                                        | 3557            | Al Abbar Architectural Glass                              |
| 3295            | Oldcastle BuildingEnvelope®                               | 3456            | Cardinal TG                                        | 3558            | Al Abbar Architectural Glass                              |
| 3296            | Oldcastle BuildingEnvelope®                               | 3458            | Cardinal TG                                        | 3560            | Al Abbar Architectural Glass                              |
| 3297            | Oldcastle BuildingEnvelope®                               | 3459            | Cardinal TG                                        | 3561            | Oldcastle BuildingEnvelope®                               |
| 3310            | Oldcastle BuildingEnvelope®                               | 3460            | TianJin Dong Sung Home Building Materials Co. Ltd. | 3577            | PPG Inds., Inc.                                           |
| 3311            | Oldcastle BuildingEnvelope®                               |                 |                                                    | 3578            | PPG Inds., Inc.                                           |
| 3312            | Oldcastle BuildingEnvelope®                               | 3461            | Trulite Glass and Aluminum Solutions               | 3579            | Cardinal CG                                               |
| 3313            | Oldcastle BuildingEnvelope®                               | 3462            | Oldcastle BuildingEnvelope®                        | 3580            | Cardinal CG                                               |
| 3314            | Oldcastle BuildingEnvelope®                               | 3464            | Contractors Wardrobe                               | 3581            | Cardinal CG                                               |
| 3315            | Oldcastle BuildingEnvelope®                               | 3465            | Contractors Wardrobe                               | 3583            | Arlene Stained Glass & Door                               |
| 3317            | Oldcastle BuildingEnvelope®                               | 3466            | Contractors Wardrobe                               | 3584            | Arlene Stained Glass & Door                               |
| 3318            | Oldcastle BuildingEnvelope®                               | 3467            | Contractors Wardrobe                               | 3585            | Arlene Stained Glass & Door                               |
| 3319            | Oldcastle BuildingEnvelope®                               | 3468            | Contractors Wardrobe                               | 3599            | Cardinal CG                                               |
| 3320            | Oldcastle BuildingEnvelope®                               | 3469            | Contractors Wardrobe                               | 3601            | Cardinal CG                                               |
| 3321            | Oldcastle BuildingEnvelope®                               | 3470            | Contractors Wardrobe                               | 3603            | Trulite Glass and Aluminum Solutions                      |
| 3326            | Trulite Glass and Aluminum Solutions                      | 3472            | Contractors Wardrobe                               | 3604            | Guardian Fabrication Inc.                                 |
| 3327            | Trulite Glass and Aluminum Solutions                      | 3473            | Contractors Wardrobe                               | 3607            | Glass Design of Miami, Inc.                               |
| 3329            | Oldcastle BuildingEnvelope®                               | 3474            | Contractors Wardrobe                               | 3619            | Cardinal IG                                               |
| 3330            | Oldcastle BuildingEnvelope®                               | 3475            | Contractors Wardrobe                               | 3631            | Intigral                                                  |
| 3331            | Oldcastle BuildingEnvelope®                               | 3476            | Contractors Wardrobe                               | 3635            | Consolidated Glass Corp.                                  |
| 3332            | Oldcastle BuildingEnvelope®                               | 3477            | Contractors Wardrobe                               | 3636            | SCHOTT Gemtron (Canada) Corporation                       |
| 3333            | Oldcastle BuildingEnvelope®                               | 3482            | PGT Industries                                     |                 |                                                           |
| 3334            | Oldcastle BuildingEnvelope®                               | 3485            | Quaker Window Products, Inc.                       | 3637            | SCHOTT Gemtron (Canada) Corporation                       |
| 3335            | Oldcastle BuildingEnvelope®                               | 3486            | Quaker Window Products, Inc.                       |                 |                                                           |
| 3336            | Oldcastle BuildingEnvelope®                               | 3487            | Downey Glass Industries, LLC                       | 3645            | Trulite Glass and Aluminum Solutions                      |
| 3337            | Oldcastle BuildingEnvelope®                               | 3489            | Xinyi Group (Glass) Co., Ltd.                      | 3646            | Trulite Glass and Aluminum Solutions                      |
| 3338            | Oldcastle BuildingEnvelope®                               | 3492            | Oldcastle BuildingEnvelope®                        | 3647            | Trulite Glass and Aluminum Solutions                      |
| 3339            | Oldcastle BuildingEnvelope®                               | 3495            | Trulite Glass and Aluminum Solutions               | 3656            | All Team Glass & Mirror, Ltd.                             |
| 3340            | Oldcastle BuildingEnvelope®                               | 3496            | Oldcastle BuildingEnvelope®                        | 3659            | SCHOTT Gemtron (Canada) Corporation                       |
| 3392            | Oldcastle BuildingEnvelope®                               | 3497            | Oldcastle BuildingEnvelope®                        |                 |                                                           |
| 3405            | Viwinco, Inc.                                             | 3498            | Oldcastle BuildingEnvelope®                        | 3661            | Galaxy Glass & Stone                                      |
| 3407            | Trulite Glass and Aluminum Solutions                      | 3499            | Oldcastle BuildingEnvelope®                        | 3672            | Guardian Industries Corp.                                 |
| 3408            | Viwinco, Inc.                                             | 3500            | Oldcastle BuildingEnvelope®                        | 3673            | Guardian Industries Corp.                                 |
| 3418            | Industrial Tempering Glass                                | 3501            | Oldcastle BuildingEnvelope®                        | 3689            | Viracon Inc.                                              |
| 3419            | Industrial Tempering Glass                                | 3502            | Oldcastle BuildingEnvelope®                        | 3690            | QinHuangDao Tianrui Tempered Technology Glass Co.         |
| 3420            | Coral Industries Glass Division                           | 3503            | Oldcastle BuildingEnvelope®                        |                 |                                                           |
| 3421            | AGC Glass Co. North America Building Products Fabrication | 3505            | Cardinal IG                                        | 3698            | AGC Glass Co. North America Building Products Fabrication |
| 3425            | Oldcastle BuildingEnvelope®                               | 3506            | Cardinal IG                                        | 3701            | Dallas Flat Glass                                         |
| 3426            | Oldcastle BuildingEnvelope®                               | 3507            | Cardinal IG                                        | 3711            | PFG Glass                                                 |
| 3427            | Oldcastle BuildingEnvelope®                               | 3508            | Cardinal IG                                        | 3714            | Insulite Glass Co., Inc.                                  |
| 3428            | Oldcastle BuildingEnvelope®                               | 3509            | Cardinal IG                                        | 3715            | Insulite Glass Co., Inc.                                  |
| 3430            | Trulite Glass and Aluminum Solutions                      | 3510            | Cardinal IG                                        | 3716            | Insulite Glass Co., Inc.                                  |
| 3431            | TianJin Dong Sung Home Building Materials Co. Ltd.        | 3532            | Kohler Company                                     | 3717            | Insulite Glass Co., Inc.                                  |
| 3439            | Oldcastle BuildingEnvelope®                               | 3536            | Trulite Glass and Aluminum Solutions               | 3718            | Insulite Glass Co., Inc.                                  |
| 3440            | Oldcastle BuildingEnvelope®                               | 3538            | PFG Glass                                          | 3720            | Insulite Glass Co., Inc.                                  |
| 3441            | Oldcastle BuildingEnvelope®                               | 3539            | PFG Glass                                          | 3729            | Oldcastle BuildingEnvelope®                               |
| 3442            | Oldcastle BuildingEnvelope®                               | 3540            | PFG Glass                                          | 3730            | Qinhuangdao Kunping Safety Glass Co. Ltd.                 |
| 3443            | Oldcastle BuildingEnvelope®                               | 3541            | PFG Glass                                          |                 |                                                           |
| 3444            | Oldcastle BuildingEnvelope®                               | 3542            | PFG Glass                                          | 3736            | Yao Xiang Glass Product Co. Ltd.                          |
| 3445            | Oldcastle BuildingEnvelope®                               | 3543            | PFG Glass                                          | 3737            | Yao Xiang Glass Product Co. Ltd.                          |
| 3446            | Oldcastle BuildingEnvelope®                               | 3544            | PFG Glass                                          | 3738            | Yao Xiang Glass Product Co. Ltd.                          |
| 3447            | Oldcastle BuildingEnvelope®                               | 3547            | PFG Glass                                          | 3739            | Yao Xiang Glass Product Co. Ltd.                          |
| 3448            | Oldcastle BuildingEnvelope®                               | 3548            | PFG Glass                                          | 3740            | Yao Xiang Glass Product Co. Ltd.                          |
| 3453            | Glass Design of Miami, Inc.                               | 3549            | PFG Glass                                          | 3741            | Yao Xiang Glass Product Co. Ltd.                          |
|                 |                                                           | 3554            | Trulite Glass and Aluminum Solutions               | 3742            | Yao Xiang Glass Product Co. Ltd.                          |
|                 |                                                           | 3555            | Cardinal CG                                        | 3743            | Yao Xiang Glass Product Co. Ltd.                          |

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|-----------------|--------------------------------------|-----------------|--------------------------------------------|-----------------|------------------------------------------------|
| 3745            | Ready Glass & Mirror, Inc.           | 3891            | Taiwan Glass Industry Corp.                | 3955            | United Plate Glass Company of Charlotte        |
| 3746            | Ready Glass & Mirror, Inc.           | 3893            | Taiwan Glass Industry Corp.                | 3957            | JYC Glass Co. Ltd.                             |
| 3747            | Ready Glass & Mirror, Inc.           | 3905            | PT Abebersa Pratama                        | 3958            | JYC Glass Co. Ltd.                             |
| 3748            | Ready Glass & Mirror, Inc.           | 3906            | PT Abebersa Pratama                        | 3959            | JYC Glass Co. Ltd.                             |
| 3750            | Berkowitz, J.E.                      | 3907            | Oldcastle BuildingEnvelope®                | 3960            | JYC Glass Co. Ltd.                             |
| 3787            | Tai Shan City Da Heng Art Glass Ltd. | 3912            | Dillmeier Enterprise, Inc.                 | 3961            | JYC Glass Co. Ltd.                             |
| 3788            | Tai Shan City Da Heng Art Glass Ltd. | 3913            | Dillmeier Enterprise, Inc.                 | 3962            | JYC Glass Co. Ltd.                             |
| 3789            | Tai Shan City Da Heng Art Glass Ltd. | 3914            | Dillmeier Enterprise, Inc.                 | 3963            | JYC Glass Co. Ltd.                             |
| 3793            | Oldcastle BuildingEnvelope®          | 3915            | Dillmeier Enterprise, Inc.                 | 3970            | GGI Glass Distributors Corp.                   |
| 3796            | Oldcastle BuildingEnvelope®          | 3916            | Dillmeier Enterprise, Inc.                 | 3971            | GGI Glass Distributors Corp.                   |
| 3805            | Quality Glass & Mirror, Inc.         | 3917            | Dillmeier Enterprise, Inc.                 | 3972            | GGI Glass Distributors Corp.                   |
| 3806            | Commercial Insulating Glass Co.      | 3918            | Pennsylvania Insulating Glass              | 3973            | GGI Glass Distributors Corp.                   |
| 3807            | Commercial Insulating Glass Co.      | 3919            | Pennsylvania Insulating Glass              | 3974            | GGI Glass Distributors Corp.                   |
| 3808            | Commercial Insulating Glass Co.      | 3925            | Trulite Glass and Aluminum Solutions       | 3976            | Al Abbar Architectural Glass                   |
| 3810            | Basco Engineered Products            | 3927            | Trulite Glass and Aluminum Solutions       | 3977            | Al Abbar Architectural Glass                   |
| 3811            | Basco Engineered Products            | 3928            | Trulite Glass and Aluminum Solutions       | 3978            | SAAND London                                   |
| 3812            | Basco Engineered Products            | 3931            | Trulite Glass and Aluminum Solutions       | 3979            | SAAND London                                   |
| 3817            | Coral Industries Glass Division      | 3932            | Dongguan CSG Architectural Glass Co., Ltd. | 3980            | SAAND London                                   |
| 3818            | Trulite Glass and Aluminum Solutions | 3933            | Dongguan CSG Architectural Glass Co., Ltd. | 3981            | SAAND London                                   |
| 3822            | Flat Glass Distributors              | 3934            | Dongguan CSG Architectural Glass Co., Ltd. | 3991            | JYC Glass Co. Ltd.                             |
| 3823            | Flat Glass Distributors              | 3935            | Dongguan CSG Architectural Glass Co., Ltd. | 3992            | JYC Glass Co. Ltd.                             |
| 3824            | Flat Glass Distributors              | 3936            | Dongguan CSG Architectural Glass Co., Ltd. | 3993            | JYC Glass Co. Ltd.                             |
| 3825            | Flat Glass Distributors              | 3937            | Dongguan CSG Architectural Glass Co., Ltd. | 3994            | JYC Glass Co. Ltd.                             |
| 3826            | Flat Glass Distributors              | 3938            | Dongguan CSG Architectural Glass Co., Ltd. | 3999            | Oldcastle BuildingEnvelope®                    |
| 3828            | Flat Glass Distributors              | 3939            | Dongguan CSG Architectural Glass Co., Ltd. | 4001            | Oldcastle BuildingEnvelope®                    |
| 3830            | Flat Glass Distributors              | 3941            | Guangdong Golden Glass Technologies        | 4002            | Custom Glass Products Inc.                     |
| 3831            | Flat Glass Distributors              | 3942            | Guangdong Golden Glass Technologies        | 4003            | Tecnoglass S.A.                                |
| 3839            | Trulite Glass and Aluminum Solutions | 3943            | Guangdong Golden Glass Technologies        | 4004            | Tri-Star Glass, Inc.                           |
| 3841            | Glenny Glass Co.                     | 3944            | Guangdong Golden Glass Technologies        | 4005            | Tri-Star Glass, Inc.                           |
| 3843            | Glenny Glass Co.                     | 3945            | Guangdong Golden Glass Technologies        | 4006            | Tri-Star Glass, Inc.                           |
| 3844            | Glenny Glass Co.                     | 3946            | Guangdong Golden Glass Technologies        | 4007            | Tri-Star Glass, Inc.                           |
| 3845            | Glenny Glass Co.                     | 3947            | Guangdong Golden Glass Technologies        | 4008            | Tri-Star Glass, Inc.                           |
| 3846            | Glenny Glass Co.                     | 3948            | United Plate Glass Company of Charlotte    | 4009            | Tri-Star Glass, Inc.                           |
| 3857            | GGI Glass Distributors Corp.         | 3949            | United Plate Glass Company of Charlotte    | 4010            | Tri-Star Glass, Inc.                           |
| 3858            | GGI Glass Distributors Corp.         | 3950            | United Plate Glass Company of Charlotte    | 4011            | Tri-Star Glass, Inc.                           |
| 3859            | Innovative Glass of America, Inc.    | 3951            | United Plate Glass Company of Charlotte    | 4012            | Kohler Company                                 |
| 3860            | Innovative Glass of America, Inc.    | 3952            | United Plate Glass Company of Charlotte    | 4021            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3861            | Innovative Glass of America, Inc.    | 3954            | United Plate Glass Company of Charlotte    | 4022            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3862            | Innovative Glass of America, Inc.    |                 |                                            | 4023            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3863            | Innovative Glass of America, Inc.    |                 |                                            | 4024            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3864            | Innovative Glass of America, Inc.    |                 |                                            | 4025            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3865            | Denver Glass Interiors, Inc.         |                 |                                            | 4026            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3866            | Denver Glass Interiors, Inc.         |                 |                                            | 4027            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3867            | Denver Glass Interiors, Inc.         |                 |                                            | 4028            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3868            | Denver Glass Interiors, Inc.         |                 |                                            | 4030            | Tianjin CSG Energy Conservation Glass Co., Ltd |
| 3871            | Cardinal Tempering                   |                 |                                            | 4031            | General Glass                                  |
| 3872            | Cardinal Tempering                   |                 |                                            | 4032            | General Glass                                  |
| 3873            | Cardinal Tempering                   |                 |                                            | 4033            | General Glass                                  |
| 3874            | Cardinal Tempering                   |                 |                                            |                 |                                                |
| 3875            | Cardinal Tempering                   |                 |                                            |                 |                                                |
| 3880            | PGT Industries                       |                 |                                            |                 |                                                |
| 3881            | PGT Industries                       |                 |                                            |                 |                                                |
| 3886            | Taiwan Glass Industry Corp.          |                 |                                            |                 |                                                |
| 3887            | Taiwan Glass Industry Corp.          |                 |                                            |                 |                                                |
| 3888            | Taiwan Glass Industry Corp.          |                 |                                            |                 |                                                |
| 3889            | Taiwan Glass Industry Corp.          |                 |                                            |                 |                                                |
| 3890            | Taiwan Glass Industry Corp.          |                 |                                            |                 |                                                |

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|-----------------|----------------------------------------------------|-----------------|--------------------------------------------|-----------------|-----------------------------------------|
| 4034            | General Glass                                      | 4123            | Dongguan Dongfa Glass Product Co., Ltd     | 4207            | Trulite Glass and Aluminum Solutions    |
| 4035            | TianJin Dong Sung Home Building Materials Co. Ltd. | 4124            | Dongguan Dongfa Glass Product Co., Ltd     | 4209            | Trulite Glass and Aluminum Solutions    |
| 4046            | AGC Flat Glass North America                       | 4125            | Dongguan Dongfa Glass Product Co., Ltd     | 4210            | Trulite Glass and Aluminum Solutions    |
| 4047            | Cardinal CG                                        | 4126            | Dongguan Dongfa Glass Product Co., Ltd     | 4212            | Trulite Glass and Aluminum Solutions    |
| 4048            | WSD Glass, Inc.                                    | 4132            | Dongguan Dongfa Glass Product Co., Ltd     | 4213            | Trulite Glass and Aluminum Solutions    |
| 4049            | WSD Glass, Inc.                                    | 4133            | Oldcastle BuildingEnvelope®                | 4214            | Trulite Glass and Aluminum Solutions    |
| 4050            | WSD Glass, Inc.                                    | 4134            | Trulite Glass and Aluminum Solutions       | 4215            | Trulite Glass and Aluminum Solutions    |
| 4051            | WSD Glass, Inc.                                    | 4135            | Trulite Glass and Aluminum Solutions       | 4216            | Trulite Glass and Aluminum Solutions    |
| 4052            | WSD Glass, Inc.                                    | 4137            | Cardinal CG                                | 4217            | Trulite Glass and Aluminum Solutions    |
| 4054            | Oldcastle BuildingEnvelope®                        | 4139            | Basco Engineered Products                  | 4218            | Trulite Glass and Aluminum Solutions    |
| 4055            | Deqing Sanxing Plastic Chemical Co. Ltd.           | 4146            | Deqing Sanxing Plastic Chemical Co. Ltd.   | 4219            | Trulite Glass and Aluminum Solutions    |
| 4056            | Deqing Sanxing Plastic Chemical Co. Ltd.           | 4147            | Deqing Sanxing Plastic Chemical Co. Ltd.   | 4220            | Trulite Glass and Aluminum Solutions    |
| 4057            | Deqing Sanxing Plastic Chemical Co. Ltd.           | 4148            | Nashville Tempered Glass LLC               | 4221            | Trulite Glass and Aluminum Solutions    |
| 4061            | Troy Systems LLC                                   | 4152            | Trulite Glass and Aluminum Solutions       | 4225            | RF Supply, Inc.                         |
| 4062            | Troy Systems LLC                                   | 4153            | Trulite Glass and Aluminum Solutions       | 4226            | RF Supply, Inc.                         |
| 4063            | Troy Systems LLC                                   | 4154            | EFCO Corporation                           | 4227            | RF Supply, Inc.                         |
| 4067            | Shanghai SYP Engineering Glass                     | 4156            | Qinhuangdao Detai Tempered Glass Co., Ltd. | 4233            | Trulite Glass and Aluminum Solutions    |
| 4068            | Shanghai SYP Engineering Glass                     | 4158            | Trulite Glass and Aluminum Solutions       | 4240            | Industrial Tempering Glass              |
| 4069            | Shanghai SYP Engineering Glass                     | 4159            | Trulite Glass and Aluminum Solutions       | 4246            | Valentini Glass & Components srl        |
| 4070            | Shanghai SYP Engineering Glass                     | 4160            | Trulite Glass and Aluminum Solutions       | 4247            | Oldcastle BuildingEnvelope® Canada Inc. |
| 4071            | Shanghai SYP Engineering Glass                     | 4161            | JYC Glass Co. Ltd.                         | 4248            | GGI Glass Distributors Corp.            |
| 4072            | Shanghai SYP Engineering Glass                     | 4167            | Dongguan CSG Architectural Glass Co., Ltd. | 4249            | Viracon Inc.                            |
| 4073            | Shanghai SYP Engineering Glass                     | 4169            | W. A. Wilson Inc.                          | 4250            | Viracon Inc.                            |
| 4074            | Shanghai SYP Engineering Glass                     | 4170            | W. A. Wilson Inc.                          | 4254            | Mercer Glass Fab LLC                    |
| 4075            | Tianjin SYP Engineering Glass Co., Ltd.            | 4171            | W. A. Wilson Inc.                          | 4255            | Mercer Glass Fab LLC                    |
| 4076            | Tianjin SYP Engineering Glass Co., Ltd.            | 4172            | W. A. Wilson Inc.                          | 4256            | Mercer Glass Fab LLC                    |
| 4077            | Tianjin SYP Engineering Glass Co., Ltd.            | 4173            | W. A. Wilson Inc.                          | 4257            | Mercer Glass Fab LLC                    |
| 4078            | Tianjin SYP Engineering Glass Co., Ltd.            | 4175            | W. A. Wilson Inc.                          | 4258            | Mercer Glass Fab LLC                    |
| 4079            | Tianjin SYP Engineering Glass Co., Ltd.            | 4176            | W. A. Wilson Inc.                          | 4277            | Trulite Glass and Aluminum Solutions    |
| 4080            | Tianjin SYP Engineering Glass Co., Ltd.            | 4179            | Xinyi Group (Glass) Co., Ltd.              | 4278            | SAAND London                            |
| 4081            | Tianjin SYP Engineering Glass Co., Ltd.            | 4180            | Oldcastle BuildingEnvelope®                | 4280            | M&M Tempering Inc.                      |
| 4084            | Tianjin SYP Engineering Glass Co., Ltd.            | 4181            | Oldcastle BuildingEnvelope®                | 4281            | M&M Tempering Inc.                      |
| 4089            | Trulite Glass and Aluminum Solutions               | 4182            | Trulite Glass and Aluminum Solutions       | 4282            | M&M Tempering Inc.                      |
| 4090            | Trulite Glass and Aluminum Solutions               | 4183            | Trulite Glass and Aluminum Solutions       | 4285            | Contour Industries, Inc.                |
| 4091            | Cardinal IG                                        | 4184            | Trulite Glass and Aluminum Solutions       | 4290            | Thermo BSL                              |
| 4103            | Cardinal IG                                        | 4185            | Trulite Glass and Aluminum Solutions       | 4291            | Thermo BSL                              |
| 4104            | Cardinal IG                                        | 4186            | Trulite Glass and Aluminum Solutions       | 4292            | Thermo BSL                              |
| 4105            | Cardinal IG                                        | 4187            | Trulite Glass and Aluminum Solutions       | 4293            | Thermo BSL                              |
| 4106            | Tianjin CSG Energy Conservation Glass Co., Ltd     | 4188            | Trulite Glass and Aluminum Solutions       | 4299            | Mega Tempering                          |
| 4107            | Tianjin CSG Energy Conservation Glass Co., Ltd     | 4189            | Trulite Glass and Aluminum Solutions       | 4300            | Mega Tempering                          |
| 4108            | Tianjin CSG Energy Conservation Glass Co., Ltd     | 4197            | United Plate Glass Company of Charlotte    | 4301            | Mega Tempering                          |
| 4120            | Cardinal LG                                        | 4198            | Glass and Mirror Craft                     | 4303            | Jiangmen SYP Engineering Glass          |
| 4121            | EFCO Corporation                                   | 4199            | Glass and Mirror Craft                     | 4304            | Jiangmen SYP Engineering Glass          |
|                 |                                                    | 4200            | Glass and Mirror Craft                     | 4305            | Jiangmen SYP Engineering Glass          |
|                 |                                                    | 4202            | Glass and Mirror Craft                     | 4306            | Jiangmen SYP Engineering Glass          |
|                 |                                                    | 4203            | Glass and Mirror Craft                     | 4307            | Jiangmen SYP Engineering Glass          |
|                 |                                                    | 4204            | Glass and Mirror Craft                     | 4308            | Jiangmen SYP Engineering Glass          |
|                 |                                                    | 4206            | SIGCO, Inc.                                | 4309            | Jiangmen SYP Engineering Glass          |
|                 |                                                    |                 |                                            | 4310            | Jiangmen SYP Engineering Glass          |
|                 |                                                    |                 |                                            | 4312            | Jiangmen SYP Engineering Glass          |
|                 |                                                    |                 |                                            | 4318            | Maryland Glass & Mirror                 |
|                 |                                                    |                 |                                            | 4319            | Maryland Glass & Mirror                 |
|                 |                                                    |                 |                                            | 4320            | Maryland Glass & Mirror                 |
|                 |                                                    |                 |                                            | 4321            | Maryland Glass & Mirror                 |
|                 |                                                    |                 |                                            | 4322            | Maryland Glass & Mirror                 |
|                 |                                                    |                 |                                            | 4326            | SIGCO, Inc.                             |

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| 4327            | SIGCO, Inc.                             | 4394            | Kawneer - (Cranberry) a division of Alcoa | 4504            | Diamond Sea Glaze                    |
| 4328            | Aldora Aluminum and Glass Products Inc. | 4395            | Kawneer - (Cranberry) a division of Alcoa | 4505            | Diamond Sea Glaze                    |
| 4329            | Aldora Aluminum and Glass Products Inc. | 4396            | Oldcastle BuildingEnvelope®               | 4506            | Diamond Sea Glaze                    |
| 4330            | Aldora Aluminum and Glass Products Inc. | 4397            | Oldcastle BuildingEnvelope®               | 4507            | Denver Glass Interiors, Inc.         |
| 4331            | Aldora Aluminum and Glass Products Inc. | 4398            | Oldcastle BuildingEnvelope®               | 4508            | Denver Glass Interiors, Inc.         |
| 4332            | Aldora Aluminum and Glass Products Inc. | 4399            | Oldcastle BuildingEnvelope®               | 4509            | Techni-Glass, Inc.                   |
| 4333            | Aldora Aluminum and Glass Products Inc. | 4400            | Oldcastle BuildingEnvelope®               | 4510            | Techni-Glass, Inc.                   |
| 4334            | Aldora Aluminum and Glass Products Inc. | 4401            | Oldcastle BuildingEnvelope®               | 4512            | Perficom S.A. DE C.V.                |
| 4335            | Aldora Aluminum and Glass Products Inc. | 4402            | Oldcastle BuildingEnvelope®               | 4517            | Blue Star Glass Inc.                 |
| 4336            | Aldora Aluminum and Glass Products Inc. | 4411            | Tri-Star Glass, Inc.                      | 4518            | Blue Star Glass Inc.                 |
| 4337            | Aldora Aluminum and Glass Products Inc. | 4413            | Glass Dynamics, Inc.                      | 4519            | Blue Star Glass Inc.                 |
| 4338            | Aldora Aluminum and Glass Products Inc. | 4414            | Glass Dynamics, Inc.                      | 4520            | Blue Star Glass Inc.                 |
| 4339            | Aldora Aluminum and Glass Products Inc. | 4419            | Garibaldi Glass Ind. Inc.                 | 4521            | Blue Star Glass Inc.                 |
| 4340            | Oldcastle BuildingEnvelope®             | 4420            | Garibaldi Glass Ind. Inc.                 | 4522            | Trulite Glass and Aluminum Solutions |
| 4342            | Trulite Glass and Aluminum Solutions    | 4421            | Garibaldi Glass Ind. Inc.                 | 4523            | Solar Seal Connecticut               |
| 4343            | Cardinal CG                             | 4422            | Garibaldi Glass Ind. Inc.                 | 4524            | Multiver                             |
| 4344            | Cardinal CG                             | 4424            | Oldcastle BuildingEnvelope®               | 4526            | Oldcastle BuildingEnvelope®          |
| 4345            | Cardinal CG                             | 4425            | Fairis C.A.                               | 4527            | Oldcastle BuildingEnvelope®          |
| 4346            | Oldcastle BuildingEnvelope®             | 4426            | Fairis C.A.                               | 4528            | Oldcastle BuildingEnvelope®          |
| 4347            | Cardinal CG                             | 4427            | Fairis C.A.                               | 4529            | Oldcastle BuildingEnvelope®          |
| 4350            | Cardinal LG                             | 4428            | Fairis C.A.                               | 4530            | Mercer Glass Fab LLC                 |
| 4351            | Cardinal LG                             | 4429            | Fairis C.A.                               | 4531            | Oldcastle BuildingEnvelope®          |
| 4353            | Shanghai SYP Building Glass             | 4430            | Fairis C.A.                               | 4533            | Oldcastle BuildingEnvelope®          |
| 4354            | Viracon Inc.                            | 4431            | Hartung Glass Industries Lami             | 4535            | Guangdong Golden Glass Technologies  |
| 4355            | All Team Glass & Mirror, Ltd.           | 4432            | Oldcastle BuildingEnvelope® Canada Inc.   | 4543            | SIGCO, Inc.                          |
| 4356            | SAAND Toronto                           | 4433            | Oldcastle BuildingEnvelope® Canada Inc.   | 4546            | Cleer Vision Tempered Glass          |
| 4357            | SAAND Toronto                           | 4435            | Oldcastle BuildingEnvelope® Canada Inc.   | 4547            | Cleer Vision Tempered Glass          |
| 4358            | SAAND Toronto                           | 4437            | Trulite Glass and Aluminum Solutions      | 4554            | Trulite Glass and Aluminum Solutions |
| 4361            | Cardinal IG                             | 4443            | Oldcastle BuildingEnvelope®               | 4555            | Trulite Glass and Aluminum Solutions |
| 4362            | Cardinal IG                             | 4444            | Oldcastle BuildingEnvelope®               | 4558            | Oldcastle BuildingEnvelope®          |
| 4363            | Changshu Zhongxin Bldg. Mat. Co.        | 4446            | Oldcastle BuildingEnvelope®               | 4561            | Oldcastle BuildingEnvelope®          |
| 4371            | Trulite Glass and Aluminum Solutions    | 4448            | Oldcastle BuildingEnvelope®               | 4563            | Oldcastle BuildingEnvelope®          |
| 4372            | Trulite Glass and Aluminum Solutions    | 4449            | Oldcastle BuildingEnvelope®               | 4566            | Dallas Flat Glass                    |
| 4373            | Trulite Glass and Aluminum Solutions    | 4452            | Trulite Glass and Aluminum Solutions      | 4567            | Dallas Flat Glass                    |
| 4374            | Trulite Glass and Aluminum Solutions    | 4453            | Trulite Glass and Aluminum Solutions      | 4571            | Architectural Glass Products, LLC.   |
| 4375            | Glass Dynamics, Inc.                    | 4454            | Oldcastle BuildingEnvelope®               | 4572            | Architectural Glass Products, LLC.   |
| 4376            | Glass Dynamics, Inc.                    | 4458            | Oldcastle BuildingEnvelope®               | 4573            | Architectural Glass Products, LLC.   |
| 4379            | Wholesale Glass Dist.                   | 4460            | Oldcastle BuildingEnvelope®               | 4574            | Architectural Glass Products, LLC.   |
| 4380            | Wholesale Glass Dist.                   | 4461            | Oldcastle BuildingEnvelope®               | 4575            | Jiangmen SYP Engineering Glass       |
| 4381            | Wholesale Glass Dist.                   | 4468            | Thermoseal Industries, LLC                | 4578            | Cardinal CT                          |
| 4382            | Wholesale Glass Dist.                   | 4470            | Thermoseal Industries, LLC                | 4579            | Cardinal CT                          |
| 4384            | Oldcastle BuildingEnvelope®             | 4471            | Thermoseal Industries, LLC                | 4580            | Cardinal CT                          |
| 4387            | Oldcastle BuildingEnvelope®             | 4473            | Insulite Glass Co., Inc.                  | 4581            | Cardinal CT                          |
| 4388            | Engineered Glass Products, L.L.C.       | 4474            | Insulite Glass Co., Inc.                  | 4582            | Cardinal CT                          |
| 4392            | Oldcastle BuildingEnvelope®             | 4475            | Oldcastle BuildingEnvelope®               | 4584            | Cardinal IG                          |
| 4393            | Oldcastle BuildingEnvelope®             | 4476            | Oldcastle BuildingEnvelope®               | 4587            | Cardinal IG                          |
|                 |                                         | 4477            | Oldcastle BuildingEnvelope®               | 4588            | Intigral                             |
|                 |                                         | 4499            | Diamond Sea Glaze                         | 4590            | Al Abbar Architectural Glass         |
|                 |                                         | 4500            | Diamond Sea Glaze                         | 4591            | New Angle Beveling                   |
|                 |                                         | 4501            | Diamond Sea Glaze                         | 4592            | New Angle Beveling                   |
|                 |                                         | 4502            | Diamond Sea Glaze                         | 4593            | New Angle Beveling                   |
|                 |                                         | 4503            | Diamond Sea Glaze                         | 4594            | New Angle Beveling                   |
|                 |                                         |                 |                                           | 4595            | New Angle Beveling                   |
|                 |                                         |                 |                                           | 4597            | White Aluminum Enterprises LLC       |
|                 |                                         |                 |                                           | 4598            | White Aluminum Enterprises LLC       |
|                 |                                         |                 |                                           | 4599            | Cardinal CG                          |

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|-----------------|-----------------------------------------------------|-----------------|------------------------------------------------|-----------------|-----------------------------------------------------|
| 4604            | Guardian Industries Corp.                           | 4670            | Foshan Nanhai Gangsheng Tempered Glass Factory | 4752            | Trulite Glass and Aluminum Solutions                |
| 4605            | Guardian Industries Corp.                           |                 |                                                | 4753            | Trulite Glass and Aluminum Solutions                |
| 4606            | Guardian Industries Corp.                           | 4671            | Foshan Nanhai Gangsheng Tempered Glass Factory | 4754            | Trulite Glass and Aluminum Solutions                |
| 4607            | Guardian Industries Corp.                           |                 |                                                | 4756            | Cardinal CT                                         |
| 4608            | Guardian Industries Corp.                           | 4672            | Foshan Nanhai Gangsheng Tempered Glass Factory | 4757            | Cardinal CT                                         |
| 4609            | Guardian Industries Corp.                           |                 |                                                | 4758            | Cardinal CT                                         |
| 4610            | Guardian Industries Corp.                           | 4673            | Foshan Nanhai Gangsheng Tempered Glass Factory | 4759            | Cardinal CT                                         |
| 4611            | Guardian Industries Corp.                           |                 |                                                | 4760            | Cardinal CT                                         |
| 4612            | Guardian Industries Corp.                           | 4675            | Reem Emirates Aluminum & Glass                 | 4761            | Cardinal CT                                         |
| 4613            | Guardian Industries Corp.                           | 4676            | Reem Emirates Aluminum & Glass                 | 4763            | Dallas Flat Glass                                   |
| 4616            | American Shower Door                                | 4677            | Reem Emirates Aluminum & Glass                 | 4764            | Global Security Glazing                             |
| 4618            | Oldcastle BuildingEnvelope®                         | 4682            | Integral Seal Mfg. Inc.                        | 4765            | Global Security Glazing                             |
| 4620            | Cardinal CT                                         | 4683            | Integral Seal Mfg. Inc.                        | 4766            | Global Security Glazing                             |
| 4621            | Cardinal CT                                         | 4684            | Integral Seal Mfg. Inc.                        | 4767            | Global Security Glazing                             |
| 4622            | Cardinal CT                                         | 4688            | Basco Engineered Products                      | 4768            | Global Security Glazing                             |
| 4623            | Cardinal CT                                         | 4689            | Basco Engineered Products                      | 4769            | Global Security Glazing                             |
| 4624            | Cardinal CT                                         | 4700            | Oldcastle BuildingEnvelope®                    | 4770            | Global Security Glazing                             |
| 4625            | Cardinal CT                                         | 4701            | Contour Industries, Inc.                       | 4774            | GGI Glass Distributors Corp.                        |
| 4626            | Downey Glass Industries, LLC                        | 4702            | Contour Industries, Inc.                       | 4775            | Cardinal CG                                         |
| 4627            | Guardian Industries Corp.                           | 4703            | Contour Industries, Inc.                       | 4779            | Viracon Inc.                                        |
| 4628            | Glass Enterprises, Inc.                             | 4704            | Contour Industries, Inc.                       | 4780            | Cardinal CG                                         |
| 4629            | Glass Enterprises, Inc.                             | 4705            | Contour Industries, Inc.                       | 4781            | Cardinal CG                                         |
| 4633            | Guardian Industries Corp.                           | 4710            | Oldcastle BuildingEnvelope®                    | 4783            | Cardinal CG                                         |
| 4636            | United Plate Glass Company of Charlotte             | 4711            | Pulp Studio Inc.                               | 4784            | Viracon Inc.                                        |
| 4638            | Flat Glass Distributors                             | 4714            | Consolidated Glass Corp.                       | 4785            | Consolidated Glass Corp.                            |
| 4639            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4715            | Aldora Aluminum and Glass Products, Inc.       | 4787            | Oldcastle BuildingEnvelope®                         |
| 4640            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4716            | Aldora Aluminum and Glass Products, Inc.       | 4788            | Productos De Valor Agregado en Cristal S.A. de C.V. |
| 4641            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4717            | Aldora Aluminum and Glass Products, Inc.       | 4789            | Aldora Aluminum and Glass Products, Inc.            |
| 4642            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4718            | Aldora Aluminum and Glass Products, Inc.       | 4790            | Dallas Flat Glass                                   |
| 4643            | Amsco Windows                                       | 4719            | Aldora Aluminum and Glass Products, Inc.       | 4792            | D3 Glass, LLC                                       |
| 4645            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4720            | Viracon Inc.                                   | 4793            | D3 Glass, LLC                                       |
| 4648            | Xinyi Group (Glass) Co., Ltd.                       | 4722            | Fairis C.A.                                    | 4795            | D3 Glass, LLC                                       |
| 4651            | Vitra Vidrios Transformados SA de CV                | 4723            | Guangdong Golden Glass Technologies            | 4796            | Gulf Glass Industries, LLC                          |
| 4652            | Vitra Vidrios Transformados SA de CV                | 4724            | Basco Engineered Products                      | 4797            | Gulf Glass Industries, LLC                          |
| 4653            | Vitra Vidrios Transformados SA de CV                | 4725            | View Inc.                                      | 4798            | Gulf Glass Industries, LLC                          |
| 4654            | Vitra Vidrios Transformados SA de CV                | 4726            | View Inc.                                      | 4799            | Gulf Glass Industries, LLC                          |
| 4655            | Vitra Vidrios Transformados SA de CV                | 4727            | View Inc.                                      | 4800            | Guardian Industries Corp.                           |
| 4656            | Guardian Fabrication Inc.                           | 4728            | View Inc.                                      | 4801            | PGT Industries                                      |
| 4657            | Changshu Xingfu Glass Building Material Co., LTD    | 4729            | Dolphin Glass Specialists, LLC                 | 4804            | Glasswerks LA, Inc. East                            |
| 4658            | Guardian Industries Corp.                           | 4730            | Tacoma Glass Mfg. Inc.                         | 4805            | Glasswerks LA, Inc. East                            |
| 4661            | The Original Frameless Shower Door                  | 4731            | Tacoma Glass Mfg. Inc.                         | 4806            | Glasswerks LA, Inc. East                            |
| 4662            | The Original Frameless Shower Door                  | 4732            | Tacoma Glass Mfg. Inc.                         | 4807            | Shanghai SYP Building Glass                         |
| 4663            | The Original Frameless Shower Door                  | 4735            | Tacoma Glass Mfg. Inc.                         | 4810            | Aldora Aluminum and Glass Products, Inc.            |
| 4667            | Trulite Glass and Aluminum Solutions                | 4742            | Cardinal CT                                    | 4811            | Paragon Tempered Glass                              |
| 4668            | Kohler Company                                      | 4743            | Trulite Glass and Aluminum Solutions           | 4812            | PGT Industries                                      |
| 4669            | Foshan Nanhai Gangsheng Tempered Glass Factory      | 4744            | Trulite Glass and Aluminum Solutions           | 4813            | McGrory Glass                                       |
|                 |                                                     | 4745            | Trulite Glass and Aluminum Solutions           | 4814            | McGrory Glass                                       |
|                 |                                                     | 4746            | Trulite Glass and Aluminum Solutions           | 4815            | McGrory Glass                                       |
|                 |                                                     | 4747            | Trulite Glass and Aluminum Solutions           | 4816            | McGrory Glass                                       |
|                 |                                                     | 4748            | Trulite Glass and Aluminum Solutions           | 4817            | McGrory Glass                                       |
|                 |                                                     | 4749            | Trulite Glass and Aluminum Solutions           | 4818            | McGrory Glass                                       |
|                 |                                                     | 4750            | Trulite Glass and Aluminum Solutions           | 4819            | McGrory Glass                                       |
|                 |                                                     |                 |                                                | 4820            | McGrory Glass                                       |
|                 |                                                     |                 |                                                | 4827            | Trulite Glass and Aluminum Solutions                |

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|-----------------|----------------------------------------------------------------|-----------------|--------------------------------------|-----------------|-------------------------------------------------------|
| 4829            | Guardian Industries Corp.                                      | 4902            | NY Tempering LLC                     | 5009            | Tempco Glass                                          |
| 4832            | Cameron Glass, Inc.                                            | 4903            | NY Tempering LLC                     | 5010            | Tempco Glass                                          |
| 4836            | Cardinal IG                                                    | 4904            | Prelco Inc.                          | 5011            | Tempco Glass                                          |
| 4837            | Berkowitz, J.E.                                                | 4905            | Prelco Inc.                          | 5012            | Tempco Glass                                          |
| 4838            | Dillmeier Enterprise, Inc.                                     | 4906            | Prelco Inc.                          | 5013            | Tempco Glass                                          |
| 4839            | Dillmeier Enterprise, Inc.                                     | 4911            | Prelco Inc.                          | 5014            | EFI                                                   |
| 4841            | Cardinal LG                                                    | 4912            | Prelco Inc.                          | 5016            | SAGE Electrochromics Inc.                             |
| 4842            | Cardinal LG                                                    | 4913            | Prelco Inc.                          | 5017            | Viracon Inc.                                          |
| 4843            | Cardinal LG                                                    | 4914            | Prelco Inc.                          | 5018            | Anthony International                                 |
| 4844            | Cardinal LG                                                    | 4915            | Prelco Inc.                          | 5019            | Glas Works, Inc.                                      |
| 4846            | Al Abbar Architectural Glass                                   | 4916            | Prelco Inc.                          | 5020            | Glas Works, Inc.                                      |
| 4847            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company | 4917            | Prelco Inc.                          | 5021            | Glas Works, Inc.                                      |
| 4848            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company | 4918            | Troy Systems LLC                     | 5024            | Oldcastle BuildingEnvelope®                           |
| 4850            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company | 4921            | Columbia Commercial Bldg Prod.       |                 | Canada Inc.                                           |
| 4851            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company | 4922            | Trulite Glass and Aluminum Solutions | 5025            | Oldcastle BuildingEnvelope®                           |
| 4870            | Tai Sheng (Dong Guan) Glass Co.,Ltd                            | 4923            | Trulite Glass and Aluminum Solutions |                 | Canada Inc.                                           |
| 4872            | Tai Sheng (Dong Guan) Glass Co.,Ltd                            | 4924            | Glass and Mirror Craft               | 5026            | EFI                                                   |
| 4873            | Tai Sheng (Dong Guan) Glass Co.,Ltd                            | 4925            | McGrory Glass                        | 5027            | Interglass Corp                                       |
| 4881            | Cardinal TG                                                    | 4926            | Upstate Glass Tempering Inc.         | 5032            | Interglass Corp                                       |
| 4882            | Oldcastle BuildingEnvelope®                                    | 4927            | Upstate Glass Tempering Inc.         | 5033            | Interglass Corp                                       |
| 4883            | AGNORA (Architectural Glass North America)                     | 4928            | JM Glass                             | 5034            | Interglass Corp                                       |
| 4884            | AGNORA (Architectural Glass North America)                     | 4929            | JM Glass                             | 5035            | Interglass Corp                                       |
| 4885            | AGNORA (Architectural Glass North America)                     | 4930            | JM Glass                             | 5036            | Interglass Corp                                       |
| 4886            | AGNORA (Architectural Glass North America)                     | 4931            | JM Glass                             | 5037            | Vitra Vidrios Transformados SA de CV                  |
| 4887            | PG Building Glass Processing                                   | 4936            | Changshu Zhouxing Glass Co. Ltd.     | 5039            | Triview Glass Industries                              |
| 4889            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4949            | SAAND Ottawa                         | 5040            | Triview Glass Industries                              |
| 4890            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4950            | SAAND Ottawa                         | 5041            | Triview Glass Industries                              |
| 4891            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4951            | SAAND Ottawa                         | 5042            | Triview Glass Industries                              |
| 4892            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4952            | SAAND Ottawa                         | 5043            | Triview Glass Industries                              |
| 4893            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4953            | SAAND Ottawa                         | 5044            | Triview Glass Industries                              |
| 4894            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4954            | SAAND Ottawa                         | 5045            | Triview Glass Industries                              |
| 4895            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4966            | Vidrio Bisel S.A. de C.V.            | 5046            | Triview Glass Industries                              |
| 4896            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4967            | Vidrio Bisel S.A. de C.V.            | 5047            | Triview Glass Industries                              |
| 4897            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4968            | Vidrio Bisel S.A. de C.V.            | 5048            | Triview Glass Industries                              |
| 4898            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4969            | Vidrio Bisel S.A. de C.V.            | 5050            | Techni-Glass, Inc.                                    |
| 4899            | GlassFab Tempering Services, Inc. Mariani Ct.                  | 4970            | Contract Glass                       | 5051            | Oldcastle BuildingEnvelope®                           |
| 4900            | NY Tempering LLC                                               | 4971            | Contract Glass                       | 5052            | Jiangmen SYP Engineering Glass                        |
| 4901            | NY Tempering LLC                                               | 4972            | Contract Glass                       | 5053            | Jiangmen SYP Engineering Glass                        |
|                 |                                                                | 4973            | Contract Glass                       | 5054            | Jiangmen SYP Engineering Glass                        |
|                 |                                                                | 4974            | Contract Glass                       | 5055            | Jiangmen SYP Engineering Glass                        |
|                 |                                                                | 4975            | Contract Glass                       | 5067            | Tai Sheng (Dong Guan) Glass Co.,Ltd                   |
|                 |                                                                | 4978            | Simonton Windows                     | 5068            | Tai Sheng (Dong Guan) Glass Co.,Ltd                   |
|                 |                                                                | 4979            | Simonton Windows                     | 5076            | Basco Engineered Products                             |
|                 |                                                                | 4980            | Trulite Glass and Aluminum Solutions | 5077            | Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd |
|                 |                                                                | 4981            | Trulite Glass and Aluminum Solutions | 5078            | Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd |
|                 |                                                                | 4993            | Tweddell's Inc.                      | 5079            | Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd |
|                 |                                                                | 4995            | SAAND Rexdale                        | 5080            | Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd |
|                 |                                                                | 4996            | SAAND Rexdale                        | 5081            | Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd |
|                 |                                                                | 4997            | SAAND Rexdale                        | 5084            | Aluminum Technology Auxiliary Industries              |
|                 |                                                                | 4998            | SAAND Rexdale                        | 5085            | Cardinal CT                                           |
|                 |                                                                | 4999            | SAAND Rexdale                        |                 |                                                       |
|                 |                                                                | 5000            | SAAND Rexdale                        |                 |                                                       |
|                 |                                                                | 5001            | SAAND Rexdale                        |                 |                                                       |
|                 |                                                                | 5002            | SAAND Rexdale                        |                 |                                                       |
|                 |                                                                | 5003            | SAAND Rexdale                        |                 |                                                       |
|                 |                                                                | 5005            | SAAND Rexdale                        |                 |                                                       |
|                 |                                                                | 5008            | SAAND Rexdale                        |                 |                                                       |



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| 5086            | Cardinal CT                                               | 5160            | Classy Glass Specialties Co., Ltd                | 5223            | Tianjin Northglass Industrial Technical Co., Ltd |
| 5087            | Cardinal CT                                               | 5161            | Classy Glass Specialties Co., Ltd                | 5224            | Cardinal LG Northeast                            |
| 5088            | Cardinal CT                                               | 5162            | Classy Glass Specialties Co., Ltd                | 5225            | Cardinal LG Northeast                            |
| 5089            | Cardinal CT                                               | 5163            | Classy Glass Specialties Co., Ltd                | 5226            | Multiver                                         |
| 5090            | Fujian Xihe Sanitary Ware Technology Co., Ltd             | 5164            | Classy Glass Specialties Co., Ltd                | 5227            | Multiver                                         |
| 5091            | Fujian Xihe Sanitary Ware Technology Co., Ltd             | 5165            | Tacoma Glass Mfg. Inc.                           | 5228            | Multiver                                         |
| 5092            | Fujian Xihe Sanitary Ware Technology Co., Ltd             | 5166            | Tacoma Glass Mfg. Inc.                           | 5229            | Nashville Tempered Glass LLC                     |
| 5093            | Louisville Plate Glass Company                            | 5167            | Tacoma Glass Mfg. Inc.                           | 5230            | Nashville Tempered Glass LLC                     |
| 5095            | Cardinal CT                                               | 5168            | Tacoma Glass Mfg. Inc.                           | 5231            | Nashville Tempered Glass LLC                     |
| 5096            | Cardinal CT                                               | 5169            | Classy Glass Specialties Co., Ltd                | 5234            | Anthony International                            |
| 5097            | Cardinal CT                                               | 5170            | Classy Glass Specialties Co., Ltd                | 5237            | Glass Design of Miami, Inc.                      |
| 5098            | Cardinal CT                                               | 5173            | W. A. Wilson Inc.                                | 5238            | Wuhan Aozheng Science and Technology Co., Ltd.   |
| 5099            | Cardinal CT                                               | 5174            | Blue Star Glass Inc.                             | 5239            | Wuhan Aozheng Science and Technology Co., Ltd.   |
| 5100            | Cardinal CT                                               | 5175            | Blue Star Glass Inc.                             | 5240            | Wuhan Aozheng Science and Technology Co., Ltd.   |
| 5101            | Cardinal CT - S                                           | 5176            | TG Changjiang Glass Co., Ltd                     | 5241            | Wuhan Aozheng Science and Technology Co., Ltd.   |
| 5102            | Cardinal CT - S                                           | 5177            | TG Changjiang Glass Co., Ltd                     | 5242            | Paragon Tempered Glass                           |
| 5103            | Cardinal CT - S                                           | 5178            | TG Changjiang Glass Co., Ltd                     | 5245            | Cardinal CT - W                                  |
| 5104            | Cardinal CT - S                                           | 5179            | TG Changjiang Glass Co., Ltd                     | 5246            | Cardinal CT - W                                  |
| 5105            | Cardinal CT - S                                           | 5183            | Trulite Glass and Aluminum Solutions             | 5247            | Cardinal CT - W                                  |
| 5106            | Cardinal CT - S                                           | 5184            | Trulite Glass and Aluminum Solutions             | 5248            | Cardinal CT - W                                  |
| 5109            | Tri-Star Glass, Inc.                                      | 5185            | Trulite Glass and Aluminum Solutions             | 5249            | Cardinal CT - W                                  |
| 5112            | Tacoma Glass Mfg. Inc.                                    | 5186            | Trulite Glass and Aluminum Solutions             | 5250            | Cardinal CT - W                                  |
| 5116            | Glass and Mirror Craft                                    | 5187            | Trulite Glass and Aluminum Solutions             | 5251            | Wujiang Golden Glass Technologies, Ltd.          |
| 5121            | Downey Glass Industries, LLC                              | 5188            | Trulite Glass and Aluminum Solutions             | 5252            | Wujiang Golden Glass Technologies, Ltd.          |
| 5122            | Downey Glass Industries, LLC                              | 5189            | Trulite Glass and Aluminum Solutions             | 5253            | Wujiang Golden Glass Technologies, Ltd.          |
| 5123            | Troy Systems LLC                                          | 5190            | Trulite Glass and Aluminum Solutions             | 5254            | Wujiang Golden Glass Technologies, Ltd.          |
| 5124            | Garibaldi Glass Ind. Inc.                                 | 5191            | Trulite Glass and Aluminum Solutions             | 5255            | Wujiang Golden Glass Technologies, Ltd.          |
| 5125            | Garibaldi Glass Ind. Inc.                                 | 5192            | Trulite Glass and Aluminum Solutions             | 5256            | Wujiang Golden Glass Technologies, Ltd.          |
| 5127            | Arlene Stained Glass & Door                               | 5193            | Cardinal LG                                      | 5257            | Wujiang Golden Glass Technologies, Ltd.          |
| 5128            | GlassFab Tempering Services, Inc. Mariani Ct.             | 5194            | Virginia Glass Products Corp.                    | 5258            | Wujiang Golden Glass Technologies, Ltd.          |
| 5129            | Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd | 5199            | Robover Inc.                                     | 5259            | Glass Dynamics, Inc.                             |
| 5130            | Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd | 5200            | Robover Inc.                                     | 5260            | Dalian Huaying Glass Limited Liability Co.       |
| 5133            | Guardian Industries Corp.                                 | 5201            | Robover Inc.                                     | 5261            | Dalian Huaying Glass Limited Liability Co.       |
| 5134            | Trulite Glass and Aluminum Solutions                      | 5202            | Robover Inc.                                     | 5262            | McGrory Glass                                    |
| 5135            | Inkan Ltd                                                 | 5203            | Basco Engineered Products                        | 5263            | McGrory Glass                                    |
| 5136            | Inkan Ltd                                                 | 5204            | PPG Inds. Inc.                                   | 5266            | Cardinal CT                                      |
| 5137            | Inkan Ltd                                                 | 5205            | PPG Inds. Inc.                                   | 5272            | Trulite Glass and Aluminum Solutions             |
| 5138            | Inkan Ltd                                                 | 5206            | PPG Inds. Inc.                                   | 5273            | Trulite Glass and Aluminum Solutions             |
| 5139            | Inkan Ltd                                                 | 5207            | PPG Inds. Inc.                                   | 5274            | Trulite Glass and Aluminum Solutions             |
| 5140            | Inkan Ltd                                                 | 5208            | EFI                                              | 5275            | Trulite Glass and Aluminum Solutions             |
| 5141            | Qinhuangdao Qicaishi                                      | 5209            | EFI                                              | 5276            | Trulite Glass and Aluminum Solutions             |
| 5142            | Guardian Industries Corp.                                 | 5210            | EFI                                              | 5277            | Trulite Glass and Aluminum Solutions             |
| 5143            | Glaz-Tech Industries, Inc.                                | 5211            | EFI                                              | 5279            | Trulite Glass and Aluminum Solutions             |
| 5144            | Bendheim Wall Systems                                     | 5212            | Aluminum Technology Auxiliary Industries         | 5280            | Qinhuangdao Jingxin Glass Co., Ltd.              |
| 5145            | Bendheim Wall Systems                                     | 5213            | SIGCO, Inc.                                      |                 |                                                  |
| 5151            | Changshu Xingfu Glass Building Material Co., LTD          | 5216            | Fujian Xihe Sanitary Ware Technology Co., Ltd    |                 |                                                  |
| 5152            | Changshu Xingfu Glass Building Material Co., LTD          | 5217            | Fujian Xihe Sanitary Ware Technology Co., Ltd    |                 |                                                  |
| 5157            | Upstate Glass Tempering Inc.                              | 5218            | Fujian Xihe Sanitary Ware Technology Co., Ltd    |                 |                                                  |
| 5158            | Upstate Glass Tempering Inc.                              | 5219            | Garibaldi Glass Ind. Inc.                        |                 |                                                  |
| 5159            | Classy Glass Specialties Co., Ltd                         | 5220            | Tianjin Northglass Industrial Technical Co., Ltd |                 |                                                  |
|                 |                                                           | 5221            | Tianjin Northglass Industrial Technical Co., Ltd |                 |                                                  |
|                 |                                                           | 5222            | Berkowitz, J.E.                                  |                 |                                                  |

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|-----------------|---------------------------------------------|-----------------|----------------------------------------------------------------|-----------------|-----------------------------------------------------------|
| 5281            | Cardinal CG                                 | 5355            | Oldcastle BuildingEnvelope®                                    | 5421            | Alumana Industries                                        |
| 5283            | American Insulated Glass Inc.               | 5364            | Cardinal CT                                                    | 5422            | Alumana Industries                                        |
| 5284            | American Insulated Glass Inc.               | 5365            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company | 5423            | Alumana Industries                                        |
| 5285            | American Insulated Glass Inc.               | 5366            | Bronco Industries, Inc.                                        | 5424            | Alumana Industries                                        |
| 5286            | American Insulated Glass Inc.               | 5367            | Bronco Industries, Inc.                                        | 5425            | Wolverine Glass Products, Inc.                            |
| 5287            | American Insulated Glass Inc.               | 5368            | Bronco Industries, Inc.                                        | 5426            | Wolverine Glass Products, Inc.                            |
| 5288            | American Insulated Glass Inc.               | 5369            | Kawneer - (Cranberry) a division of Alcoa                      | 5427            | Wolverine Glass Products, Inc.                            |
| 5289            | American Insulated Glass Inc.               | 5377            | Kibing Special Glass Zhangzhou Co., Ltd.                       | 5428            | Wolverine Glass Products, Inc.                            |
| 5290            | Phoenicia Flat Glass Industries             | 5378            | Kibing Special Glass Zhangzhou Co., Ltd.                       | 5429            | Wolverine Glass Products, Inc.                            |
| 5295            | Simonton Windows                            | 5379            | Kibing Special Glass Zhangzhou Co., Ltd.                       | 5430            | Wolverine Glass Products, Inc.                            |
| 5296            | Simonton Windows                            | 5380            | Kibing Special Glass Zhangzhou Co., Ltd.                       | 5431            | Wolverine Glass Products, Inc.                            |
| 5297            | Quaker Window Products, Inc.                | 5381            | Kibing Special Glass Zhangzhou Co., Ltd.                       | 5432            | Trulite Glass and Aluminum Solutions                      |
| 5298            | Thompson I.G. LLC.                          | 5382            | Kibing Special Glass Zhangzhou Co., Ltd.                       | 5433            | Trulite Glass and Aluminum Solutions                      |
| 5299            | Thompson I.G. LLC.                          | 5383            | Virginia Glass Products Corp.                                  | 5434            | Trulite Glass and Aluminum Solutions                      |
| 5300            | Thompson I.G. LLC.                          | 5384            | Tweddell's Inc.                                                | 5435            | Cardinal IG                                               |
| 5301            | Thompson I.G. LLC.                          | 5385            | Tweddell's Inc.                                                | 5436            | Shenzhen Kai Tai Glass Co., LTD                           |
| 5302            | Thompson I.G. LLC.                          | 5386            | Tweddell's Inc.                                                | 5437            | Shenzhen Kai Tai Glass Co., LTD                           |
| 5303            | Thompson I.G. LLC.                          | 5387            | Oldcastle BuildingEnvelope®                                    | 5438            | Shenzhen Kai Tai Glass Co., LTD                           |
| 5304            | Thompson I.G. LLC.                          | 5388            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.                | 5439            | Shenzhen Kai Tai Glass Co., LTD                           |
| 5305            | Thompson I.G. LLC.                          | 5389            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.                | 5440            | Shenzhen Kai Tai Glass Co., LTD                           |
| 5306            | Cardinal CG                                 | 5390            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.                | 5441            | Tri-Star Glass, Inc.                                      |
| 5308            | ClearEdge Glass                             | 5391            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.                | 5442            | Oldcastle BuildingEnvelope®                               |
| 5310            | ClearEdge Glass                             | 5392            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.                | 5443            | Trulite Glass and Aluminum Solutions                      |
| 5311            | ClearEdge Glass                             | 5393            | Vitemex                                                        | 5444            | Trulite Glass and Aluminum Solutions                      |
| 5317            | Trulite Glass and Aluminum Solutions        | 5394            | Vitemex                                                        | 5445            | Trulite Glass and Aluminum Solutions                      |
| 5318            | Trulite Glass and Aluminum Solutions        | 5395            | Vitemex                                                        | 5446            | Trulite Glass and Aluminum Solutions                      |
| 5320            | Trulite Glass and Aluminum Solutions        | 5396            | Trulite Glass and Aluminum Solutions                           | 5447            | Trulite Glass and Aluminum Solutions                      |
| 5321            | Trulite Glass and Aluminum Solutions        | 5397            | Trulite Glass and Aluminum Solutions                           | 5448            | Trulite Glass and Aluminum Solutions                      |
| 5322            | Trulite Glass and Aluminum Solutions        | 5398            | Trulite Glass and Aluminum Solutions                           | 5449            | Trulite Glass and Aluminum Solutions                      |
| 5325            | Trulite Glass and Aluminum Solutions        | 5399            | Trulite Glass and Aluminum Solutions                           | 5450            | Trulite Glass and Aluminum Solutions                      |
| 5327            | Trulite Glass and Aluminum Solutions        | 5400            | Trulite Glass and Aluminum Solutions                           | 5451            | Trulite Glass and Aluminum Solutions                      |
| 5335            | Cardinal CG                                 | 5401            | Trulite Glass and Aluminum Solutions                           | 5452            | Glas Works, Inc.                                          |
| 5336            | Cardinal CG                                 | 5403            | Trulite Glass and Aluminum Solutions                           | 5453            | Nashville Tempered Glass LLC                              |
| 5337            | Trulite Glass and Aluminum Solutions - West | 5404            | Trulite Glass and Aluminum Solutions                           | 5454            | Nashville Tempered Glass LLC                              |
| 5338            | Trulite Glass and Aluminum Solutions - West | 5405            | Trulite Glass and Aluminum Solutions                           | 5455            | New Century Glass & Aluminum LLC                          |
| 5339            | Trulite Glass and Aluminum Solutions - West | 5406            | Trulite Glass and Aluminum Solutions                           | 5456            | New Century Glass & Aluminum LLC                          |
| 5340            | Trulite Glass and Aluminum Solutions - West | 5407            | Unitex Glass Chengdu Co., Ltd                                  | 5457            | New Century Glass & Aluminum LLC                          |
| 5341            | Trulite Glass and Aluminum Solutions        | 5408            | Unitex Glass Chengdu Co., Ltd                                  | 5458            | New Century Glass & Aluminum LLC                          |
| 5343            | Trulite Glass and Aluminum Solutions        | 5410            | M Industria S.A. DE C.V.                                       | 5459            | Oldcastle BuildingEnvelope®                               |
| 5344            | Trulite Glass and Aluminum Solutions        | 5411            | M Industria S.A. DE C.V.                                       | 5462            | Unitex Glass Chengdu Co., Ltd                             |
| 5345            | Trulite Glass and Aluminum Solutions        | 5412            | M Industria S.A. DE C.V.                                       | 5463            | Unitex Glass Chengdu Co., Ltd                             |
| 5346            | Trulite Glass and Aluminum Solutions        | 5413            | M Industria S.A. DE C.V.                                       | 5464            | Zhangjiagang City Daming Glass Product Co., Ltd           |
| 5347            | Trulite Glass and Aluminum Solutions        | 5414            | Unitex Glass Chengdu Co., Ltd                                  | 5465            | Zhangjiagang City Daming Glass Product Co., Ltd           |
| 5348            | Trulite Glass and Aluminum Solutions        | 5418            | Consolidated Armor Products, LLC                               | 5466            | Zhangjiagang City Daming Glass Product Co., Ltd           |
| 5349            | Trulite Glass and Aluminum Solutions        | 5419            | Consolidated Armor Products, LLC                               | 5467            | Sky Land Tempering Glass Corp                             |
| 5350            | Trulite Glass and Aluminum Solutions        | 5420            | Alumana Industries                                             | 5468            | Sky Land Tempering Glass Corp                             |
| 5351            | Changshu Weier Glass Products Co. Ltd.      |                 |                                                                | 5469            | Sky Land Tempering Glass Corp                             |
| 5352            | Changshu Weier Glass Products Co. Ltd.      |                 |                                                                | 5470            | Sky Land Tempering Glass Corp                             |
| 5353            | Changshu Weier Glass Products Co. Ltd.      |                 |                                                                | 5471            | AGC Glass Co. North America Building Products Fabrication |
| 5354            | Changshu Weier Glass Products Co. Ltd.      |                 |                                                                | 5472            | AGC Glass Co. North America Building Products Fabrication |
|                 |                                             |                 |                                                                | 5473            | AGC Glass Co. North America Building Products Fabrication |

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| 5474            | AGC Glass Co. North America Building Products Fabrication | 5534            | Xinyi Glass (Tianjin) Co. Ltd.                 | 5593            | Wisconsin Shower Door & Supply Corp  |
| 5475            | AGC Glass Co. North America Building Products Fabrication | 5535            | Xinyi Glass (Tianjin) Co. Ltd.                 | 5594            | Wisconsin Shower Door & Supply Corp  |
| 5476            | AGC Glass Co. North America Building Products Fabrication | 5536            | Xinyi Glass (Tianjin) Co. Ltd.                 | 5595            | Wisconsin Shower Door & Supply Corp  |
| 5477            | Trulite Glass and Aluminum Solutions                      | 5538            | Xinyi Glass (Tianjin) Co. Ltd.                 | 5596            | Wisconsin Shower Door & Supply Corp  |
| 5478            | Trulite Glass and Aluminum Solutions                      | 5539            | Xinyi Glass (Tianjin) Co. Ltd.                 | 5597            | Wisconsin Shower Door & Supply Corp  |
| 5479            | Cardinal CT                                               | 5549            | Foshan Nanhai Gangsheng Tempered Glass Factory | 5598            | Glass and Mirror Craft               |
| 5480            | Glasswerks LA, Inc. West                                  | 5550            | Foshan Nanhai Gangsheng Tempered Glass Factory | 5604            | Tai Sheng (Dong Guan) Glass Co.,Ltd  |
| 5481            | Glasswerks LA, Inc. West                                  | 5551            | Foshan Nanhai Gangsheng Tempered Glass Factory | 5605            | PRL Glass Systems                    |
| 5482            | Glasswerks LA, Inc. West                                  | 5552            | Foshan Nanhai Gangsheng Tempered Glass Factory | 5606            | Clinton Glass Company                |
| 5483            | Trulite Glass and Aluminum Solutions                      | 5554            | Downey Glass Industries, LLC                   | 5607            | Clinton Glass Company                |
| 5484            | Trulite Glass and Aluminum Solutions                      | 5555            | Viracon Inc.                                   | 5608            | Clinton Glass Company                |
| 5485            | Trulite Glass and Aluminum Solutions                      | 5556            | Viracon Inc.                                   | 5613            | Qingdao Jinjing Co., Ltd.            |
| 5486            | Tai Sheng (Dong Guan) Glass Co.,Ltd                       | 5557            | Viracon Inc.                                   | 5615            | Columbia Commercial Bldg Prod.       |
| 5487            | Tai Sheng (Dong Guan) Glass Co.,Ltd                       | 5558            | Beijing Wuhua Tianbao Glass Co.                | 5616            | Columbia Commercial Bldg Prod.       |
| 5488            | Tai Sheng (Dong Guan) Glass Co.,Ltd                       | 5559            | Beijing Wuhua Tianbao Glass Co.                | 5617            | Qingdao Jinjing Co., Ltd.            |
| 5490            | Taiwan Glass Industry Corp.                               | 5560            | Beijing Wuhua Tianbao Glass Co.                | 5621            | DDG Glass Manufacturing SDN BHD      |
| 5498            | Produits Verrier International Inc.                       | 5561            | Beijing Wuhua Tianbao Glass Co.                | 5622            | DDG Glass Manufacturing SDN BHD      |
| 5499            | Produits Verrier International Inc.                       | 5562            | Beijing Wuhua Tianbao Glass Co.                | 5623            | DDG Glass Manufacturing SDN BHD      |
| 5500            | Produits Verrier International Inc.                       | 5563            | Beijing Wuhua Tianbao Glass Co.                | 5624            | DDG Glass Manufacturing SDN BHD      |
| 5501            | Produits Verrier International Inc.                       | 5564            | Industrial Tempering Glass                     | 5625            | DDG Glass Manufacturing SDN BHD      |
| 5502            | Produits Verrier International Inc.                       | 5565            | Industrial Tempering Glass                     | 5626            | DDG Glass Manufacturing SDN BHD      |
| 5503            | Produits Verrier International Inc.                       | 5566            | Rizhao Huaye Glass Co., Ltd.                   | 5627            | DDG Glass Manufacturing SDN BHD      |
| 5504            | Produits Verrier International Inc.                       | 5568            | Rizhao Huaye Glass Co., Ltd.                   | 5628            | DDG Glass Manufacturing SDN BHD      |
| 5505            | Produits Verrier International Inc.                       | 5569            | Rizhao Huaye Glass Co., Ltd.                   | 5629            | Phoenicia Flat Glass Industries      |
| 5507            | Trulite Glass and Aluminum Solutions                      | 5570            | Rizhao Huaye Glass Co., Ltd.                   | 5630            | Oldcastle BuildingEnvelope®          |
| 5508            | Trulite Glass and Aluminum Solutions                      | 5571            | Rizhao Huaye Glass Co., Ltd.                   | 5631            | Trulite Glass and Aluminum Solutions |
| 5509            | Trulite Glass and Aluminum Solutions                      | 5572            | Rizhao Huaye Glass Co., Ltd.                   | 5632            | Trulite Glass and Aluminum Solutions |
| 5510            | Trulite Glass and Aluminum Solutions                      | 5573            | Rizhao Huaye Glass Co., Ltd.                   | 5634            | Ready Glass & Mirror, Inc.           |
| 5511            | Trulite Glass and Aluminum Solutions                      | 5574            | Aldora Aluminum and Glass Products, Inc.       | 5635            | ATI Windows                          |
| 5512            | Sanshiba                                                  | 5575            | Aldora Aluminum and Glass Products, Inc.       | 5636            | ATI Windows                          |
| 5513            | Insulite Glass Co., Inc.                                  | 5576            | Aldora Aluminum and Glass Products, Inc.       | 5637            | ATI Windows                          |
| 5516            | Trulite Glass and Aluminum Solutions                      | 5577            | Aldora Aluminum and Glass Products, Inc.       | 5638            | ATI Windows                          |
| 5517            | Trulite Glass and Aluminum Solutions                      | 5579            | Aldora Aluminum and Glass Products, Inc.       | 5639            | ATI Windows                          |
| 5518            | Trulite Glass and Aluminum Solutions                      | 5580            | Rizhao Huaye Glass Co., Ltd.                   | 5640            | Guardian IG LLC                      |
| 5519            | TVITEC                                                    | 5581            | Rizhao Huaye Glass Co., Ltd.                   | 5641            | Guardian IG LLC                      |
| 5520            | Vetzeria F. Illi Paci                                     | 5582            | Viracon Inc.                                   | 5642            | Guardian IG LLC                      |
| 5521            | Flat Glass Group Co., Ltd.                                | 5584            | GlassFab Tempering Services, Inc. Mariani Ct.  | 5643            | Guardian IG LLC                      |
| 5522            | Flat Glass Group Co., Ltd.                                | 5585            | Wisconsin Shower Door & Supply Corp            | 5644            | Guardian IG LLC                      |
| 5523            | Flat Glass Group Co., Ltd.                                | 5587            | Wisconsin Shower Door & Supply Corp            | 5645            | Guardian IG LLC                      |
| 5524            | Flat Glass Group Co., Ltd.                                | 5588            | Wisconsin Shower Door & Supply Corp            | 5646            | Guardian IG LLC                      |
| 5525            | Flat Glass Group Co., Ltd.                                | 5589            | Wisconsin Shower Door & Supply Corp            | 5647            | Guardian IG LLC                      |
| 5526            | Flat Glass Group Co., Ltd.                                | 5590            | Wisconsin Shower Door & Supply Corp            | 5655            | SAGE Electrochromics Inc.            |
| 5527            | Solar Seal Massachusetts                                  | 5592            | Wisconsin Shower Door & Supply Corp            | 5660            | SAGE Electrochromics Inc.            |
| 5528            | Clarus Glassboards                                        |                 |                                                | 5661            | Beijing Wuhua Tianbao Glass Co.      |
| 5529            | Qingdao Apis Glass Industries Co. Ltd.                    |                 |                                                | 5662            | Beijing Wuhua Tianbao Glass Co.      |
| 5530            | Qingdao Apis Glass Industries Co. Ltd.                    |                 |                                                | 5663            | Beijing Wuhua Tianbao Glass Co.      |
| 5531            | Qingdao Apis Glass Industries Co. Ltd.                    |                 |                                                | 5664            | Beijing Wuhua Tianbao Glass Co.      |
| 5532            | Xinyi Glass (Tianjin) Co. Ltd.                            |                 |                                                | 5672            | Thermo BSL                           |
| 5533            | Xinyi Glass (Tianjin) Co. Ltd.                            |                 |                                                | 5673            | Thermo BSL                           |
|                 |                                                           |                 |                                                | 5674            | Thermo BSL                           |
|                 |                                                           |                 |                                                | 5676            | Sunglas Technics Co., Ltd.           |
|                 |                                                           |                 |                                                | 5677            | Sunglas Technics Co., Ltd.           |

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| <b>SGCC No.</b> |                                       | <b>SGCC No.</b> |                                                   | <b>SGCC No.</b> |                                           |
|-----------------|---------------------------------------|-----------------|---------------------------------------------------|-----------------|-------------------------------------------|
| 5678            | Sunglas Technics Co., Ltd.            | 5734            | Thermal Seal Insulating Glass                     | 5794            | Trulite Glass and Aluminum Solutions      |
| 5679            | Sunglas Technics Co., Ltd.            | 5735            | Thermal Seal Insulating Glass                     | 5795            | Trulite Glass and Aluminum Solutions      |
| 5680            | Trulite Glass and Aluminum Solutions  | 5736            | Thermal Seal Insulating Glass                     | 5796            | Trulite Glass and Aluminum Solutions      |
| 5681            | Best Deal Millworks                   | 5737            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.      | 5797            | Trulite Glass and Aluminum Solutions      |
| 5682            | Best Deal Millworks                   | 5738            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.      | 5798            | Trulite Glass and Aluminum Solutions      |
| 5683            | Best Deal Millworks                   | 5739            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.      | 5800            | Trulite Glass and Aluminum Solutions      |
| 5684            | Jin Yao Chang Tempered Glass Co., Ltd | 5740            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.      | 5801            | Trulite Glass and Aluminum Solutions      |
| 5685            | Dlubak Corporation                    | 5746            | Trulite Glass and Aluminum Solutions              | 5802            | Trulite Glass and Aluminum Solutions      |
| 5686            | Trulite Glass and Aluminum Solutions  | 5747            | Trulite Glass and Aluminum Solutions              | 5803            | Trulite Glass and Aluminum Solutions      |
| 5687            | Trulite Glass and Aluminum Solutions  | 5748            | General Glass                                     | 5804            | Trulite Glass and Aluminum Solutions      |
| 5688            | Trulite Glass and Aluminum Solutions  | 5750            | General Glass                                     | 5805            | Trulite Glass and Aluminum Solutions      |
| 5689            | Qingdao Laurel Enterprise Co., Ltd.   | 5751            | General Glass                                     | 5807            | Trulite Glass and Aluminum Solutions      |
| 5690            | Triton Glass LLC                      | 5752            | Galaxy Glass & Stone                              | 5808            | Trulite Glass and Aluminum Solutions      |
| 5691            | Triton Glass LLC                      | 5755            | Cat-I Manufacturing, Inc.                         | 5809            | Trulite Glass and Aluminum Solutions      |
| 5692            | Triton Glass LLC                      | 5756            | Shower Doors & More Inc.                          | 5810            | Trulite Glass and Aluminum Solutions      |
| 5693            | Triton Glass LLC                      | 5757            | Shower Doors & More Inc.                          | 5811            | Trulite Glass and Aluminum Solutions      |
| 5694            | Triton Glass LLC                      | 5758            | Shower Doors & More Inc.                          | 5812            | Trulite Glass and Aluminum Solutions      |
| 5695            | Cristec Vipla SL                      | 5759            | Shower Doors & More Inc.                          | 5813            | Trulite Glass and Aluminum Solutions      |
| 5696            | Cristec Vipla SL                      | 5760            | Ningbo XinShuGuang Safety Glass Limited Co., Ltd. | 5814            | Trulite Glass and Aluminum Solutions      |
| 5697            | Cristec Vipla SL                      | 5761            | M Industria S.A. DE C.V.                          | 5815            | Trulite Glass and Aluminum Solutions      |
| 5698            | Cristec Vipla SL                      | 5762            | Tri-Star Glass, Inc.                              | 5816            | Trulite Glass and Aluminum Solutions      |
| 5699            | Cristec Vipla SL                      | 5763            | Robover Inc.                                      | 5817            | Trulite Glass and Aluminum Solutions      |
| 5700            | Trulite Glass and Aluminum Solutions  | 5764            | Robover Inc.                                      | 5818            | Trulite Glass and Aluminum Solutions      |
| 5701            | Trulite Glass and Aluminum Solutions  | 5765            | AVIC Sanxin Co. Ltd.                              | 5820            | Trulite Glass and Aluminum Solutions      |
| 5702            | Trulite Glass and Aluminum Solutions  | 5766            | AVIC Sanxin Co. Ltd.                              | 5821            | Trulite Glass and Aluminum Solutions      |
| 5703            | Trulite Glass and Aluminum Solutions  | 5767            | AVIC Sanxin Co. Ltd.                              | 5822            | Trulite Glass and Aluminum Solutions      |
| 5704            | Trulite Glass and Aluminum Solutions  | 5768            | AVIC Sanxin Co. Ltd.                              | 5823            | Trulite Glass and Aluminum Solutions      |
| 5705            | Trulite Glass and Aluminum Solutions  | 5769            | AVIC Sanxin Co. Ltd.                              | 5824            | Trulite Glass and Aluminum Solutions      |
| 5706            | Trulite Glass and Aluminum Solutions  | 5770            | AVIC Sanxin Co. Ltd.                              | 5825            | Trulite Glass and Aluminum Solutions      |
| 5707            | Trulite Glass and Aluminum Solutions  | 5771            | AVIC Sanxin Co. Ltd.                              | 5826            | Trulite Glass and Aluminum Solutions      |
| 5708            | Jiaxing Joinbath Corporation          | 5772            | New Angle Beveling                                | 5827            | Trulite Glass and Aluminum Solutions      |
| 5709            | Jiaxing Joinbath Corporation          | 5773            | New Angle Beveling                                | 5828            | Trulite Glass and Aluminum Solutions      |
| 5710            | Jiaxing Joinbath Corporation          | 5774            | New Angle Beveling                                | 5829            | Trulite Glass and Aluminum Solutions      |
| 5711            | Jiaxing Joinbath Corporation          | 5775            | New Angle Beveling                                | 5830            | Trulite Glass and Aluminum Solutions      |
| 5712            | Jiaxing Joinbath Corporation          | 5776            | New Angle Beveling                                | 5831            | Trulite Glass and Aluminum Solutions      |
| 5713            | Jiaxing Joinbath Corporation          | 5777            | Jiangyin Mingyang Glass Production                | 5832            | Trulite Glass and Aluminum Solutions      |
| 5714            | Glassshape NA L.P.                    | 5778            | Jiangyin Mingyang Glass Production                | 5834            | View Inc.                                 |
| 5715            | Glassshape NA L.P.                    | 5779            | Jiangyin Mingyang Glass Production                | 5835            | Allglass Tempering Inc.                   |
| 5716            | Glassshape NA L.P.                    | 5780            | Jiangyin Mingyang Glass Production                | 5836            | Allglass Tempering Inc.                   |
| 5717            | Glassshape NA L.P.                    | 5781            | Vidrios el Castillo SC de RL de CV                | 5837            | Allglass Tempering Inc.                   |
| 5718            | Oldcastle BuildingEnvelope®           | 5782            | Trulite Glass and Aluminum Solutions              | 5838            | Allglass Tempering Inc.                   |
| 5719            | Quest Window Systems                  | 5783            | Trulite Glass and Aluminum Solutions              | 5839            | Allglass Tempering Inc.                   |
| 5720            | Cardinal CG                           | 5784            | Trulite Glass and Aluminum Solutions              | 5840            | Vidrios el Castillo SC de RL de CV        |
| 5721            | Solar Seal Virginia                   | 5785            | Nashville Tempered Glass Corp.                    | 5841            | View Inc.                                 |
| 5722            | Solar Seal Virginia                   | 5786            | Phoenicia Flat Glass Industries                   | 5842            | Cardinal CT                               |
| 5723            | Solar Seal Virginia                   | 5787            | Qinhuangdao Dawei Glass Products Co. Ltd.         | 5843            | Huahui Glass (China) Co., LD              |
| 5724            | Solar Seal Virginia                   | 5788            | GnT Glass Co., Ltd.                               | 5844            | Huahui Glass (China) Co., LD              |
| 5725            | Solar Seal Virginia                   | 5789            | GnT Glass Co., Ltd.                               | 5859            | RF Supply, Inc.                           |
| 5726            | Solar Seal Virginia                   | 5790            | GnT Glass Co., Ltd.                               | 5860            | RF Supply, Inc.                           |
| 5727            | Robover Inc.                          | 5791            | GnT Glass Co., Ltd.                               | 5861            | Dongguan Trillion Aluminum Glass Co., Ltd |
| 5728            | Trulite Glass and Aluminum Solutions  | 5792            | Trulite Glass and Aluminum Solutions              | 5862            | Dongguan Trillion Aluminum Glass Co., Ltd |
| 5729            | Nashville Tempered Glass Corp.        | 5793            | Trulite Glass and Aluminum Solutions              | 5863            | Dongguan Trillion Aluminum Glass Co., Ltd |
| 5730            | Thermal Seal Insulating Glass         |                 |                                                   | 5864            | Dongguan Trillion Aluminum Glass Co., Ltd |
| 5731            | Thermal Seal Insulating Glass         |                 |                                                   |                 |                                           |
| 5732            | Thermal Seal Insulating Glass         |                 |                                                   |                 |                                           |
| 5733            | Thermal Seal Insulating Glass         |                 |                                                   |                 |                                           |

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| <b>SGCC No.</b> |                                               | <b>SGCC No.</b> |                                                  | <b>SGCC No.</b> |                                                  |
|-----------------|-----------------------------------------------|-----------------|--------------------------------------------------|-----------------|--------------------------------------------------|
| 5865            | Ascent Glass Products (Zhong Shan) Limited    | 5911            | Cardinal IG                                      | 6001            | Carey Glass International                        |
| 5866            | Ascent Glass Products (Zhong Shan) Limited    | 5912            | Cardinal IG                                      | 6002            | Carey Glass International                        |
| 5867            | Ascent Glass Products (Zhong Shan) Limited    | 5913            | Multiver Inc.                                    | 6003            | Hanwood Enterprises Limited                      |
| 5868            | Ascent Glass Products (Zhong Shan) Limited    | 5914            | Multiver Inc.                                    | 6004            | Xianning CSG Energy Conservation Glass Co., LTD. |
| 5869            | Ascent Glass Products (Zhong Shan) Limited    | 5915            | Multiver Inc.                                    | 6005            | Xianning CSG Energy Conservation Glass Co., LTD. |
| 5870            | Bronco Industries, Inc.                       | 5916            | Multiver Inc.                                    | 6010            | Trulite Glass and Aluminum Solutions             |
| 5871            | Bronco Industries, Inc.                       | 5917            | U.S. Glass Distributors Inc.                     | 6011            | Trulite Glass and Aluminum Solutions             |
| 5872            | Bronco Industries, Inc.                       | 5918            | U.S. Glass Distributors Inc.                     | 6015            | Vistamatic                                       |
| 5873            | Jiangmen Ligo Glass Manufacture Co., Ltd.     | 5919            | U.S. Glass Distributors Inc.                     | 6016            | All Glass (Suqian) Limited                       |
| 5874            | Jiangmen Ligo Glass Manufacture Co., Ltd.     | 5920            | U.S. Glass Distributors Inc.                     | 6017            | Glenny Glass Co.                                 |
| 5876            | Trulite Glass and Aluminum Solutions          | 5921            | U.S. Glass Distributors Inc.                     | 6018            | Templados Del Centro SA DE C.V.                  |
| 5877            | Trulite Glass and Aluminum Solutions          | 5922            | U.S. Glass Distributors Inc.                     | 6019            | Templados Del Centro SA DE C.V.                  |
| 5878            | Cristec Vipla SL                              | 5923            | U.S. Glass Distributors Inc.                     | 6020            | SCHOTT Gemtron (Canada) Corporation              |
| 5879            | Trulite Glass and Aluminum Solutions          | 5924            | U.S. Glass Distributors Inc.                     | 6021            | SCHOTT Gemtron (Canada) Corporation              |
| 5882            | Glasswerks LA, Inc. East                      | 5925            | U.S. Glass Distributors Inc.                     | 6027            | Midwest Glass Fabricators Inc.                   |
| 5883            | Glasswerks LA, Inc. East                      | 5926            | U.S. Glass Distributors Inc.                     | 6028            | Midwest Glass Fabricators Inc.                   |
| 5884            | Glasswerks LA, Inc. East                      | 5927            | U.S. Glass Distributors Inc.                     | 6029            | Midwest Glass Fabricators Inc.                   |
| 5885            | Glasswerks LA, Inc. East                      | 5928            | U.S. Glass Distributors Inc.                     | 6030            | Midwest Glass Fabricators Inc.                   |
| 5886            | Glasswerks LA, Inc. East                      | 5936            | Trulite Glass and Aluminum Solutions             | 6031            | Midwest Glass Fabricators Inc.                   |
| 5887            | ATN Holding Inc.                              | 5937            | Trulite Glass and Aluminum Solutions             | 6032            | Midwest Glass Fabricators Inc.                   |
| 5888            | ATN Holding Inc.                              | 5938            | Comercial Dialum S.A.                            | 6033            | Midwest Glass Fabricators Inc.                   |
| 5890            | Yong Feng Tai Foshan City Glas Co., LTD.      | 5939            | Strong Tempering Glass Industry LLC              | 6034            | Midwest Glass Fabricators Inc.                   |
| 5891            | Yong Feng Tai Foshan City Glas Co., LTD.      | 5940            | Strong Tempering Glass Industry LLC              | 6035            | Midwest Glass Fabricators Inc.                   |
| 5892            | Yong Feng Tai Foshan City Glas Co., LTD.      | 5941            | Strong Tempering Glass Industry LLC              | 6036            | Midwest Glass Fabricators Inc.                   |
| 5893            | Yong Feng Tai Foshan City Glas Co., LTD.      | 5942            | Strong Tempering Glass Industry LLC              | 6037            | Midwest Glass Fabricators Inc.                   |
| 5894            | Yong Feng Tai Foshan City Glas Co., LTD.      | 5961            | AGC Mirodan Industrie                            | 6038            | AGC Processing Teplice a.s.                      |
| 5895            | Yong Feng Tai Foshan City Glas Co., LTD.      | 5962            | AGC Mirodan Industrie                            | 6040            | Global Security Glazing                          |
| 5896            | Trulite Glass and Aluminum Solutions          | 5965            | Dlubak Corporation                               | 6041            | Huachuang Longfei Glass Co., Ltd.                |
| 5897            | Trulite Glass and Aluminum Solutions          | 5966            | Vidrios Dellorto S.A.                            | 6043            | AGC Processing Teplice a.s.                      |
| 5898            | Trulite Glass and Aluminum Solutions          | 5967            | Vidrios Dellorto S.A.                            |                 |                                                  |
| 5899            | Qinhuangdao Ampac Building Products Co., Ltd. | 5968            | Vidrios Dellorto S.A.                            |                 |                                                  |
| 5900            | Qinhuangdao Ampac Building Products Co., Ltd. | 5969            | Vidrios Dellorto S.A.                            |                 |                                                  |
| 5901            | Qinhuangdao Ampac Building Products Co., Ltd. | 5970            | Vidrios Dellorto S.A.                            |                 |                                                  |
| 5902            | Qinhuangdao Ampac Building Products Co., Ltd. | 5971            | Vidrios Dellorto S.A.                            |                 |                                                  |
| 5903            | Qinhuangdao Ampac Building Products Co., Ltd. | 5973            | Kensington Glass Arts                            |                 |                                                  |
| 5904            | Oldcastle BuildingEnvelope®                   | 5974            | Kensington Glass Arts                            |                 |                                                  |
| 5905            | Saint Gobain Mexico, S.A. de C.V.             | 5975            | Kensington Glass Arts                            |                 |                                                  |
| 5906            | Saint Gobain Mexico, S.A. de C.V.             | 5976            | Kensington Glass Arts                            |                 |                                                  |
| 5907            | Saint Gobain Mexico, S.A. de C.V.             | 5977            | Kensington Glass Arts                            |                 |                                                  |
| 5908            | Saint Gobain Mexico, S.A. de C.V.             | 5978            | Xianning CSG Energy Conservation Glass Co., LTD. |                 |                                                  |
| 5909            | Saint Gobain Mexico, S.A. de C.V.             | 5979            | Xianning CSG Energy Conservation Glass Co., LTD. |                 |                                                  |
| 5910            | Cardinal IG                                   | 5980            | Xianning CSG Energy Conservation Glass Co., LTD. |                 |                                                  |
|                 |                                               | 5981            | Xianning CSG Energy Conservation Glass Co., LTD. |                 |                                                  |
|                 |                                               | 5982            | Xianning CSG Energy Conservation Glass Co., LTD. |                 |                                                  |
|                 |                                               | 5983            | Xianning CSG Energy Conservation Glass Co., LTD. |                 |                                                  |
|                 |                                               | 5984            | Xianning CSG Energy Conservation Glass Co., LTD. |                 |                                                  |
|                 |                                               | 5985            | Trulite Glass and Aluminum Solutions             |                 |                                                  |
|                 |                                               | 5991            | Cardinal CT                                      |                 |                                                  |
|                 |                                               | 5998            | Carey Glass International                        |                 |                                                  |
|                 |                                               | 5999            | Carey Glass International                        |                 |                                                  |
|                 |                                               | 6000            | Carey Glass International                        |                 |                                                  |

## Certified Products-Alphabetical By Plant

| SGCC#                                                                             | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE        | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                            | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|-----------------------------------------------------------------------------------|-----------|--------------------------------|------------------|-----------------------|---------------|------------------------------------------------------------------|-----------|--------------------------------|-------------------|-----------------------|---------------|
| <b>AGC Flat Glass North America ; Greenland, TN</b>                               |           |                                |                  |                       |               | <b>Aldora Aluminum and Glass Products Inc. ; Charleston, SC</b>  |           |                                |                   |                       |               |
| 598                                                                               | COMP+CAN  | 1/8                            | 3.0 TTG          |                       | U A           | 4328                                                             | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 955                                                                               | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           | 4329                                                             | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| 220                                                                               | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           | 4330                                                             | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 89                                                                                | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           | 4331                                                             | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 4046                                                                              | COMP+CAN  | 5/16                           | 8.0 TTG          |                       | U A           | 4335                                                             | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 90                                                                                | COMP+CAN  | 3/8                            | 10.0 TTG         |                       | U A           | 4336                                                             | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 587                                                                               | COMP+CAN  | 1/8                            | 3.0 TPG (s)      |                       | U A           | 4332                                                             | COMPOSITE | 1/8                            | 3.0 TPG (s)       |                       | U A           |
| 2980                                                                              | COMP+CAN  | 5/32                           | 4.0 TPG (m)      |                       | U A           | 4333                                                             | COMPOSITE | 5/32                           | 4.0 TPG (d)       |                       | U A           |
| 1139                                                                              | COMP+CAN  | 3/16                           | 5.0 TPG (s)      |                       | U A           | 4334                                                             | COMPOSITE | 3/16                           | 5.0 TPG (d)       |                       | U A           |
| <b>AGC Flat Glass North America ; Spring Hill, KS</b>                             |           |                                |                  |                       |               | 4338                                                             | COMPOSITE | 1/4                            | 6.0 TPG (m)       |                       | U A           |
| 1702                                                                              | COMP+CAN  | 1/8                            | 3.0 TTG          |                       | U A           | 4339                                                             | COMPOSITE | 3/8                            | 10.0 TPG (s)      |                       | U A           |
| 1703                                                                              | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           | 4337                                                             | COMPOSITE | (H)                            | 8, 12 LTG (lu)(A) | (.060)                | U A           |
| 1704                                                                              | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           | <b>Aldora Aluminum and Glass Products, Inc. ; Miramar, FL</b>    |           |                                |                   |                       |               |
| 1705                                                                              | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           | 4715                                                             | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| <b>AGC Glass Co. North America Building Products Fabrication ; Boardman, OH</b>   |           |                                |                  |                       |               | 4716                                                             | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 5471                                                                              | COMP+CAN  | 1/8                            | 3.0 TTG          |                       | U A           | 4717                                                             | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 5472                                                                              | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           | 4718                                                             | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 5473                                                                              | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           | 4719                                                             | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 5474                                                                              | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           | 4810                                                             | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |
| 5475                                                                              | COMP+CAN  | 1/8                            | 3.0 TPG (m)      |                       | U A           | 4789                                                             | COMPOSITE | (H)                            | 12 LTG (lu)(A)(6) | (.090)                | U A           |
| 5476                                                                              | COMP+CAN  | 3/16                           | 5.0 TPG (m)      |                       | U A           | <b>Aldora Aluminum and Glass Products, Inc. ; Orlando, FL</b>    |           |                                |                   |                       |               |
| <b>AGC Glass Co. North America Building Products Fabrication ; Quakertown, PA</b> |           |                                |                  |                       |               | 5574                                                             | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 2507                                                                              | COMPOSITE | 1/8                            | 3.0 TTG          |                       | U A           | 5575                                                             | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 3421                                                                              | COMPOSITE | 5/32                           | 4.0 TTG          |                       | U A           | 5576                                                             | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 2509                                                                              | COMPOSITE | 3/16                           | 5.0 TTG          |                       | U A           | 5579                                                             | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 2666                                                                              | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           | 5577                                                             | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 2510                                                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)      |                       | U A           | <b>All Glass (Suqian) Limited ; Suqian City, Jiangsu</b>         |           |                                |                   |                       |               |
| 3698                                                                              | COMPOSITE | 3/16                           | 5.0 TPG (s)      |                       | U A           | 6016                                                             | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| <b>AGC Mirodan Industrie ; Heule, Belgium</b>                                     |           |                                |                  |                       |               | <b>All Team Glass &amp; Mirror, Ltd. ; Woodbridge, ON Canada</b> |           |                                |                   |                       |               |
| 5961                                                                              | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           | 1754                                                             | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| 5962                                                                              | COMPOSITE | 3/8                            | 10.0 TTG         |                       | U A           | 1755                                                             | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| <b>AGC Processing Teplice a.s. ; Teplice, Czech Republic</b>                      |           |                                |                  |                       |               | 1756                                                             | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 6038                                                                              | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           | 2790                                                             | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           |
| 6043                                                                              | COMPOSITE | 3/8                            | 10.0 TTG         |                       | U A           | 1757                                                             | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| <b>AGNORA (Architectural Glass North America) ; Collingwood, ON Canada</b>        |           |                                |                  |                       |               | 1758                                                             | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 4883                                                                              | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           | 4355                                                             | COMPOSITE | 5/8                            | 16.0 TTG          |                       | U A           |
| 4885                                                                              | COMP+CAN  | 3/8                            | 10.0 TTG         |                       | U A           | 3656                                                             | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |
| 4884                                                                              | COMP+CAN  | 1/2                            | 12.0 TTG         |                       | U A           | <b>Allglass Tempering Inc. ; Schiller Park, IL</b>               |           |                                |                   |                       |               |
| 4886                                                                              | COMP+CAN  | (H)                            | 12+ LTG (b)(A)   | (.030)                | U A           | 5835                                                             | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| <b>Al Abbar Architectural Glass ; Dubai, United Arab Emirates</b>                 |           |                                |                  |                       |               | 5836                                                             | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 4846                                                                              | COMPOSITE | 3/16                           | 5.0 TTG          |                       | U A           | 5837                                                             | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 3556                                                                              | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           | 5838                                                             | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 3557                                                                              | COMPOSITE | 5/16                           | 8.0 TTG          |                       | U A           | 5839                                                             | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 3558                                                                              | COMPOSITE | 3/8                            | 10.0 TTG         |                       | U A           | <b>Alumana Industries ; Doha, Qatar</b>                          |           |                                |                   |                       |               |
| 4590                                                                              | COMPOSITE | 1/2                            | 12.0 TTG         |                       | U A           | 5420                                                             | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 3976                                                                              | COMPOSITE | *                              | 15.0 TTG (4)     |                       | U A           | 5421                                                             | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           |
| 3977                                                                              | COMPOSITE | 3/4                            | 19.0 TTG         |                       | U A           | 5422                                                             | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 3560                                                                              | COMPOSITE | (H)                            | 8-16+ LTG (b)(A) | (.030)                | U A           | 5423                                                             | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
|                                                                                   |           |                                |                  |                       |               | 5424                                                             | COMPOSITE | (H)                            | 12-16+ LTG (b)(A) | (.060)                | U A           |
|                                                                                   |           |                                |                  |                       |               | <b>Aluminum Technology Auxiliary Industries ; Doha, Qatar</b>    |           |                                |                   |                       |               |
|                                                                                   |           |                                |                  |                       |               | 5084                                                             | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
|                                                                                   |           |                                |                  |                       |               | 5212                                                             | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                                                  | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE    | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                        | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|----------------------------------------------------------------------------------------|-----------|--------------------------------|--------------|-----------------------|---------------|--------------------------------------------------------------|-----------|--------------------------------|-------------------|-----------------------|---------------|
| <b>American Insulated Glass Inc. ; Conley, GA</b>                                      |           |                                |              |                       |               | <b>ATI Windows ; Riverside, CA</b>                           |           |                                |                   |                       |               |
| 5283                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG      |                       | U A           | 5635                                                         | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 5284                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           | 5636                                                         | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| 5285                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           | 5637                                                         | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 5286                                                                                   | COMPOSITE | 3/8                            | 10.0 TTG     |                       | U A           | 5638                                                         | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 5287                                                                                   | COMPOSITE | 1/2                            | 12.0 TTG     |                       | U A           | 5639                                                         | COMPOSITE | 1/8                            | 3.0 TPG (s)       |                       | U A           |
| 5288                                                                                   | COMPOSITE | 1/8                            | 3.0 TPG (m)  |                       | U A           | <b>ATN Holding Inc. ; Mira Loma, CA</b>                      |           |                                |                   |                       |               |
| 5289                                                                                   | COMPOSITE | 3/16                           | 5.0 TPG (s)  |                       | U A           | 5887                                                         | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| <b>American Shower Door ; Los Angeles, CA</b>                                          |           |                                |              |                       |               | 5888                                                         | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 4616                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           | <b>AVIC Sanxin Co. Ltd. ; Shenzhen, Guangdong, China</b>     |           |                                |                   |                       |               |
| 3039                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           | 5766                                                         | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 3040                                                                                   | COMPOSITE | 3/8                            | 10.0 TTG     |                       | U A           | 5767                                                         | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           |
| 3041                                                                                   | COMPOSITE | 1/2                            | 12.0 TTG     |                       | U A           | 5768                                                         | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 3042                                                                                   | COMPOSITE | 1/4                            | 6.0 TPG (s)  |                       | U A           | 5769                                                         | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 3043                                                                                   | COMPOSITE | 3/8                            | 10.0 TPG (s) |                       | U A           | 5770                                                         | COMPOSITE | *                              | 15.0 TTG (3)      |                       | U A           |
| <b>Amsco Windows ; Salt Lake City, UT</b>                                              |           |                                |              |                       |               | 5771                                                         | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |
| 2578                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG      |                       | U A           | 5765                                                         | COMPOSITE | (H)                            | 12 LTG (b)(A)     | (.030)                | U A           |
| 4643                                                                                   | COMPOSITE | 5/32                           | 4.0 TTG      |                       | U A           | <b>Basco Engineered Products ; Hamilton, OH</b>              |           |                                |                   |                       |               |
| 2580                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           | 4139                                                         | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 2581                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           | 4724                                                         | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 2582                                                                                   | COMPOSITE | 1/8                            | 3.0 TPG (m)  |                       | U A           | 3810                                                         | ANSI ONLY | 1/4                            | 6.0 TTG           |                       | U A           |
| 2584                                                                                   | COMPOSITE | 3/16                           | 5.0 TPG (m)  |                       | U A           | 3811                                                         | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| <b>Anthony International ; Madison, GA</b>                                             |           |                                |              |                       |               | 3812                                                         | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 3249                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG      |                       | U A           | 5076                                                         | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |
| 3027                                                                                   | COMPOSITE | 5/32                           | 4.0 TTG      |                       | U A           | 4688                                                         | COMPOSITE | 3/16                           | 5.0 TPG (m)       |                       | U A           |
| 2352                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           | 4689                                                         | COMPOSITE | 1/4                            | 6.0 TPG (s)       |                       | U A           |
| 2353                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           | 5203                                                         | COMPOSITE | 3/8                            | 10.0 TPG (m)      |                       | U A           |
| 5234                                                                                   | COMPOSITE | 5/16                           | 8.0 TTG      |                       | U A           | <b>Beijing Wuhua Tianbao Glass Co. ; Beijing, China</b>      |           |                                |                   |                       |               |
| 2453                                                                                   | COMPOSITE | 3/8                            | 10.0 TTG     |                       | U A           | 5558                                                         | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| 5018                                                                                   | COMPOSITE | 1/2                            | 13.0 TTG     |                       | U A           | 5559                                                         | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 2305                                                                                   | COMPOSITE | 5/32                           | 4.0 TBG      |                       | U A           | 5560                                                         | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 2306                                                                                   | COMPOSITE | 3/16                           | 5.0 TBG      |                       | U A           | 5561                                                         | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           |
| 2307                                                                                   | COMPOSITE | 1/4                            | 6.0 TBG      |                       | U A           | 5562                                                         | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| <b>Anthony International ; San Fernando, CA</b>                                        |           |                                |              |                       |               | 5563                                                         | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 520                                                                                    | ANSI ONLY | 1/8                            | 3.0 TTG      |                       | U A           | 5661                                                         | COMPOSITE | *                              | 15.0 TTG (3)      |                       | U A           |
| 2289                                                                                   | ANSI ONLY | 5/32                           | 4.0 TTG      |                       | U A           | 5662                                                         | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |
| 999                                                                                    | ANSI ONLY | 3/16                           | 5.0 TTG      |                       | U A           | 5664                                                         | COMPOSITE | (H)                            | 12-16+ LTG (b)(A) | (.045)                | U A           |
| 1000                                                                                   | ANSI ONLY | 1/4                            | 6.0 TTG      |                       | U A           | 5663                                                         | COMPOSITE | (H)                            | 20+ LTG (b)(A)    | (.030)                | U A           |
| <b>Architectural Glass Products, LLC. ; St. Louis, MO</b>                              |           |                                |              |                       |               | <b>Bendheim Wall Systems ; Wunsiedel-Holenbrunn, Germany</b> |           |                                |                   |                       |               |
| 4571                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG      |                       | U A           | 5145                                                         | COMPOSITE | *                              | 6.0 TBP (s)(2)    | 20x76 A               |               |
| 4572                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           | 5144                                                         | COMPOSITE | *                              | 7.0 TBP (s)(2)    | 16x76 A               |               |
| 4573                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           | 2570                                                         | COMPOSITE | *                              | 6.0 TBG (2)       | 20x76 A               |               |
| 4574                                                                                   | COMPOSITE | 3/16                           | 5.0 TPG (s)  |                       | U A           | 2569                                                         | COMPOSITE | *                              | 7.0 TBG (2)       | 16x76 A               |               |
| <b>Arlene Stained Glass &amp; Door ; Houston, TX</b>                                   |           |                                |              |                       |               | <b>Berkowitz, J.E. ; Pedricktown, NJ</b>                     |           |                                |                   |                       |               |
| 5127                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG      |                       | U A           | 4837                                                         | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           |
| 3583                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           | 2646                                                         | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           |
| 3584                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           | 1991                                                         | COMP+CAN  | 1/2                            | 12.0 TTG          |                       | U A           |
| 3585                                                                                   | COMPOSITE | 5/32                           | 4.0 TPG (s)  |                       | U A           | 2647                                                         | COMP+CAN  | 3/4                            | 19.0 TTG          |                       | U A           |
| <b>Ascent Glass Products (Zhong Shan) Limited ; Zhongshan City, Guangdong Province</b> |           |                                |              |                       |               | 5222                                                         | COMP+CAN  | (S)                            | 6 LTG (b)(A)      | (.030)                | U A           |
| 5865                                                                                   | COMPOSITE | 5/32                           | 4.0 TTG      |                       | U A           | 3750                                                         | COMP+CAN  | (H)                            | 8-16+ LTG (b)(A)  | (.030)                | U A           |
| 5866                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           | <b>Best Deal Millworks ; Baton Rouge, LA</b>                 |           |                                |                   |                       |               |
| 5867                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           | 5681                                                         | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 5868                                                                                   | COMPOSITE | 5/16                           | 8.0 TTG      |                       | U A           | 5682                                                         | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 5869                                                                                   | COMPOSITE | 3/8                            | 10.0 TTG     |                       | U A           | 5683                                                         | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |

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|                                            |           |                                |      | MAX SIZE<br>CERTIFIED |  | ANSI<br>CLASS                   |          |                                |      | MAX SIZE<br>CERTIFIED |  | ANSI<br>CLASS                  |           |                                |      |             |  |       |          |                                |      |      |  |     |
|--------------------------------------------|-----------|--------------------------------|------|-----------------------|--|---------------------------------|----------|--------------------------------|------|-----------------------|--|--------------------------------|-----------|--------------------------------|------|-------------|--|-------|----------|--------------------------------|------|------|--|-----|
| SGCC#                                      | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE                  |  | SGCC#                           | TEST STD | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE                  |  | SGCC#                          | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE        |  | SGCC# | TEST STD | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE |  |     |
| Blue Star Glass Inc. ; North Brunswick, NJ |           |                                |      |                       |  | Cardinal CG ; Moreno Valley, CA |          |                                |      |                       |  |                                |           |                                |      |             |  |       |          |                                |      |      |  |     |
| 4517                                       | COMPOSITE | 1/8                            |      | 3.0 TTG               |  |                                 |          |                                |      |                       |  | 2293                           | COMP+CAN  | 1/8                            |      | 3.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4518                                       | COMPOSITE | 3/16                           |      | 5.0 TTG               |  |                                 |          |                                |      |                       |  | 2294                           | COMP+CAN  | 5/32                           |      | 4.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4519                                       | COMPOSITE | 1/4                            |      | 6.0 TTG               |  |                                 |          |                                |      |                       |  | 2295                           | COMP+CAN  | 3/16                           |      | 5.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4520                                       | COMPOSITE | 3/8                            |      | 10.0 TTG              |  |                                 |          |                                |      |                       |  | 2296                           | COMP+CAN  | 1/4                            |      | 6.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4521                                       | COMPOSITE | 1/2                            |      | 12.0 TTG              |  |                                 |          |                                |      |                       |  | 5335                           | COMP+CAN  | 1/8                            |      | 3.0 TPG (s) |  |       |          |                                |      |      |  | U A |
| 5174                                       | COMPOSITE | 5/8                            |      | 16.0 TTG              |  |                                 |          |                                |      |                       |  | 5336                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (s) |  |       |          |                                |      |      |  | U A |
| 5175                                       | COMPOSITE | 3/4                            |      | 19.0 TTG              |  |                                 |          |                                |      |                       |  | Cardinal CG ; Northfield, MN   |           |                                |      |             |  |       |          |                                |      |      |  |     |
| Bronco Industries, Inc. ; Delta, BC        |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 1985                           | COMP+CAN  | 1/8                            |      | 3.0 TTG     |  |       |          |                                |      |      |  | U A |
| 5870                                       | COMP+CAN  | 1/8                            |      | 3.0 TTG               |  |                                 |          |                                |      |                       |  | 1986                           | COMP+CAN  | 5/32                           |      | 4.0 TTG     |  |       |          |                                |      |      |  | U A |
| 5871                                       | COMP+CAN  | 5/32                           |      | 4.0 TTG               |  |                                 |          |                                |      |                       |  | 1987                           | COMP+CAN  | 3/16                           |      | 5.0 TTG     |  |       |          |                                |      |      |  | U A |
| 5872                                       | COMP+CAN  | 3/16                           |      | 5.0 TTG               |  |                                 |          |                                |      |                       |  | 1988                           | COMP+CAN  | 1/4                            |      | 6.0 TTG     |  |       |          |                                |      |      |  | U A |
| 5366                                       | COMP+CAN  | 1/4                            |      | 6.0 TTG               |  |                                 |          |                                |      |                       |  | 4775                           | COMP+CAN  | 5/16                           |      | 8.0 TTG     |  |       |          |                                |      |      |  | U A |
| 5367                                       | COMP+CAN  | 3/8                            |      | 10.0 TTG              |  |                                 |          |                                |      |                       |  | 4137                           | COMP+CAN  | 3/8                            |      | 10.0 TTG    |  |       |          |                                |      |      |  | U A |
| 5368                                       | COMP+CAN  | 1/2                            |      | 12.0 TTG              |  |                                 |          |                                |      |                       |  | 2011                           | COMP+CAN  | 1/8                            |      | 3.0 TPG (s) |  |       |          |                                |      |      |  | U A |
| Cameron Glass, Inc. ; Broken Arrow, OK     |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 2012                           | COMP+CAN  | 5/32                           |      | 4.0 TPG (d) |  |       |          |                                |      |      |  | U A |
| 4832                                       | COMPOSITE | 1/8                            |      | 3.0 TTG               |  |                                 |          |                                |      |                       |  | 2013                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (m) |  |       |          |                                |      |      |  | U A |
| 2501                                       | COMPOSITE | 3/16                           |      | 5.0 TTG               |  |                                 |          |                                |      |                       |  | Cardinal CG ; Spring Green, WI |           |                                |      |             |  |       |          |                                |      |      |  |     |
| 2455                                       | COMPOSITE | 1/4                            |      | 6.0 TTG               |  |                                 |          |                                |      |                       |  | 2067                           | COMP+CAN  | 1/8                            |      | 3.0 TTG     |  |       |          |                                |      |      |  | U A |
| 2032                                       | COMP+CAN  | 3/8                            |      | 10.0 TTG              |  |                                 |          |                                |      |                       |  | 2068                           | COMP+CAN  | 5/32                           |      | 4.0 TTG     |  |       |          |                                |      |      |  | U A |
| 2033                                       | COMP+CAN  | 1/2                            |      | 12.0 TTG              |  |                                 |          |                                |      |                       |  | 2069                           | COMP+CAN  | 3/16                           |      | 5.0 TTG     |  |       |          |                                |      |      |  | U A |
| Cardinal CG ; Buford, GA                   |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 2070                           | COMP+CAN  | 1/4                            |      | 6.0 TTG     |  |       |          |                                |      |      |  | U A |
| 1921                                       | COMP+CAN  | 1/8                            |      | 3.0 TTG               |  |                                 |          |                                |      |                       |  | 5281                           | COMP+CAN  | 5/16                           |      | 8.0 TTG     |  |       |          |                                |      |      |  | U A |
| 1922                                       | COMP+CAN  | 5/32                           |      | 4.0 TTG               |  |                                 |          |                                |      |                       |  | 2071                           | COMP+CAN  | 1/8                            |      | 3.0 TPG (s) |  |       |          |                                |      |      |  | U A |
| 1923                                       | COMP+CAN  | 3/16                           |      | 5.0 TTG               |  |                                 |          |                                |      |                       |  | Cardinal CG ; Tumwater, WA     |           |                                |      |             |  |       |          |                                |      |      |  |     |
| 1924                                       | COMP+CAN  | 1/4                            |      | 6.0 TTG               |  |                                 |          |                                |      |                       |  | 2007                           | COMP+CAN  | 1/8                            |      | 3.0 TTG     |  |       |          |                                |      |      |  | U A |
| 2146                                       | COMP+CAN  | 1/8                            |      | 3.0 TPG (s)           |  |                                 |          |                                |      |                       |  | 2008                           | COMP+CAN  | 5/32                           |      | 4.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4599                                       | COMP+CAN  | 3/16                           |      | 5.0 TPG (s)           |  |                                 |          |                                |      |                       |  | 2009                           | COMP+CAN  | 3/16                           |      | 5.0 TTG     |  |       |          |                                |      |      |  | U A |
| Cardinal CG ; Galt, CA                     |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 2010                           | COMP+CAN  | 1/4                            |      | 6.0 TTG     |  |       |          |                                |      |      |  | U A |
| 2357                                       | COMPOSITE | 1/8                            |      | 3.0 TTG               |  |                                 |          |                                |      |                       |  | 2954                           | COMP+CAN  | 1/8                            |      | 3.0 TPG (s) |  |       |          |                                |      |      |  | U A |
| 2358                                       | COMPOSITE | 5/32                           |      | 4.0 TTG               |  |                                 |          |                                |      |                       |  | 2955                           | COMP+CAN  | 5/32                           |      | 4.0 TPG (d) |  |       |          |                                |      |      |  | U A |
| 2359                                       | COMPOSITE | 3/16                           |      | 5.0 TTG               |  |                                 |          |                                |      |                       |  | 2956                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (m) |  |       |          |                                |      |      |  | U A |
| 2360                                       | COMPOSITE | 1/4                            |      | 6.0 TTG               |  |                                 |          |                                |      |                       |  | Cardinal CG ; Waxahachie, TX   |           |                                |      |             |  |       |          |                                |      |      |  |     |
| 3599                                       | COMPOSITE | 1/8                            |      | 3.0 TPG (s)           |  |                                 |          |                                |      |                       |  | 2699                           | COMP+CAN  | 1/8                            |      | 3.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4347                                       | COMPOSITE | 5/32                           |      | 4.0 TPG (m)           |  |                                 |          |                                |      |                       |  | 2700                           | COMP+CAN  | 5/32                           |      | 4.0 TTG     |  |       |          |                                |      |      |  | U A |
| 3601                                       | COMPOSITE | 3/16                           |      | 5.0 TPG (m)           |  |                                 |          |                                |      |                       |  | 2701                           | COMP+CAN  | 3/16                           |      | 5.0 TTG     |  |       |          |                                |      |      |  | U A |
| Cardinal CG ; Loveland, CO                 |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 2702                           | COMP+CAN  | 1/4                            |      | 6.0 TTG     |  |       |          |                                |      |      |  | U A |
| 3579                                       | COMPOSITE | 1/8                            |      | 3.0 TTG               |  |                                 |          |                                |      |                       |  | 4047                           | COMP+CAN  | 5/32                           |      | 4.0 TPG (m) |  |       |          |                                |      |      |  | U A |
| 3580                                       | COMPOSITE | 5/32                           |      | 4.0 TTG               |  |                                 |          |                                |      |                       |  | 2705                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (m) |  |       |          |                                |      |      |  | U A |
| 3581                                       | COMPOSITE | 3/16                           |      | 5.0 TTG               |  |                                 |          |                                |      |                       |  | Cardinal CT ; Adel, GA         |           |                                |      |             |  |       |          |                                |      |      |  |     |
| 3555                                       | COMPOSITE | 1/4                            |      | 6.0 TTG               |  |                                 |          |                                |      |                       |  | 5095                           | COMPOSITE | 1/8                            |      | 3.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4343                                       | COMPOSITE | 1/8                            |      | 3.0 TPG (s)           |  |                                 |          |                                |      |                       |  | 5096                           | COMPOSITE | 5/32                           |      | 4.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4344                                       | COMPOSITE | 5/32                           |      | 4.0 TPG (d)           |  |                                 |          |                                |      |                       |  | 5097                           | COMPOSITE | 3/16                           |      | 5.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4345                                       | COMPOSITE | 3/16                           |      | 5.0 TPG (m)           |  |                                 |          |                                |      |                       |  | 5364                           | COMPOSITE | 1/4                            |      | 6.0 TTG     |  |       |          |                                |      |      |  | U A |
| 5720                                       | COMPOSITE | 1/4                            |      | 6.0 TPG (d)           |  |                                 |          |                                |      |                       |  | 5098                           | COMPOSITE | 1/8                            |      | 3.0 TPG (d) |  |       |          |                                |      |      |  | U A |
| Cardinal CG ; Mazomanie, WI                |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 5099                           | COMPOSITE | 5/32                           |      | 4.0 TPG (d) |  |       |          |                                |      |      |  | U A |
| 4780                                       | COMP+CAN  | 1/8                            |      | 3.0 TTG               |  |                                 |          |                                |      |                       |  | 5100                           | COMPOSITE | 3/16                           |      | 5.0 TPG (d) |  |       |          |                                |      |      |  | U A |
| 4781                                       | COMP+CAN  | 5/32                           |      | 4.0 TTG               |  |                                 |          |                                |      |                       |  | Cardinal CT ; Easton, PA       |           |                                |      |             |  |       |          |                                |      |      |  |     |
| 5306                                       | COMP+CAN  | 3/16                           |      | 5.0 TTG               |  |                                 |          |                                |      |                       |  | 4756                           | COMP+CAN  | 1/8                            |      | 3.0 TTG     |  |       |          |                                |      |      |  | U A |
| 4783                                       | COMP+CAN  | 1/4                            |      | 6.0 TTG               |  |                                 |          |                                |      |                       |  | 4757                           | COMP+CAN  | 5/32                           |      | 4.0 TTG     |  |       |          |                                |      |      |  | U A |
|                                            |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 4758                           | COMP+CAN  | 3/16                           |      | 5.0 TTG     |  |       |          |                                |      |      |  | U A |
|                                            |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 5842                           | COMP+CAN  | 1/4                            |      | 6.0 TTG     |  |       |          |                                |      |      |  | U A |
|                                            |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 4759                           | COMP+CAN  | 1/8                            |      | 3.0 TPG (s) |  |       |          |                                |      |      |  | U A |
|                                            |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 4760                           | COMP+CAN  | 5/32                           |      | 4.0 TPG (s) |  |       |          |                                |      |      |  | U A |
|                                            |           |                                |      |                       |  |                                 |          |                                |      |                       |  | 4761                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (m) |  |       |          |                                |      |      |  | U A |



## Certified Products-Alphabetical By Plant

| SGCC#                                | TEST STD  | INCHES (MM)          | TYPE        | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                 | TEST STD  | INCHES (MM)          | TYPE             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|--------------------------------------|-----------|----------------------|-------------|-----------------------|---------------|---------------------------------------|-----------|----------------------|------------------|-----------------------|---------------|
|                                      |           | (THICKNESS<br>CLASS) |             |                       |               |                                       |           | (THICKNESS<br>CLASS) |                  |                       |               |
| <b>Cardinal CT ; Los Angeles, CA</b> |           |                      |             |                       |               | <b>Cardinal IG ; Fargo, ND</b>        |           |                      |                  |                       |               |
| 5085                                 | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | 2235                                  | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 5086                                 | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 2234                                  | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 5087                                 | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 2233                                  | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 5991                                 | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 2232                                  | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 5088                                 | COMP+CAN  | 1/8                  | 3.0 TPG (s) |                       | U A           | 2231                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s)      |                       | U A           |
| 5089                                 | COMP+CAN  | 3/16                 | 5.0 TPG (m) |                       | U A           | 2285                                  | COMP+CAN  | 5/32                 | 4.0 TPG (m)      |                       | U A           |
| <b>Cardinal CT ; Mount Airy, NC</b>  |           |                      |             |                       |               | 2286                                  | COMP+CAN  | 3/16                 | 5.0 TPG (s)      |                       | U A           |
| 4578                                 | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | <b>Cardinal IG ; Fremont, IN</b>      |           |                      |                  |                       |               |
| 4579                                 | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 2176                                  | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 4580                                 | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 2177                                  | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 5266                                 | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 2178                                  | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 4581                                 | COMP+CAN  | 1/8                  | 3.0 TPG (s) |                       | U A           | 2179                                  | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 4742                                 | COMP+CAN  | 5/32                 | 4.0 TPG (m) |                       | U A           | 2203                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s)      |                       | U A           |
| 4582                                 | COMP+CAN  | 3/16                 | 5.0 TPG (s) |                       | U A           | 2204                                  | COMP+CAN  | 5/32                 | 4.0 TPG (d)      |                       | U A           |
| <b>Cardinal CT ; Utica, OH</b>       |           |                      |             |                       |               | 2205                                  | COMP+CAN  | 3/16                 | 5.0 TPG (s)      |                       | U A           |
| 4620                                 | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | <b>Cardinal IG ; Greenfield, IA</b>   |           |                      |                  |                       |               |
| 4621                                 | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 1827                                  | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 4622                                 | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 1828                                  | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 5479                                 | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 1829                                  | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 4623                                 | COMP+CAN  | 1/8                  | 3.0 TPG (m) |                       | U A           | 1830                                  | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 4624                                 | COMP+CAN  | 5/32                 | 4.0 TPG (m) |                       | U A           | 5435                                  | COMP+CAN  | 5/16                 | 8.0 TTG          |                       | U A           |
| 4625                                 | COMP+CAN  | 3/16                 | 5.0 TPG (m) |                       | U A           | 1841                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s)      |                       | U A           |
| <b>Cardinal CT - S ; Irving TX</b>   |           |                      |             |                       |               | 1842                                  | COMP+CAN  | 5/32                 | 4.0 TPG (d)      |                       | U A           |
| 5101                                 | COMPOSITE | 1/8                  | 3.0 TTG     |                       | U A           | 1843                                  | COMP+CAN  | 3/16                 | 5.0 TPG (s)      |                       | U A           |
| 5102                                 | COMPOSITE | 5/32                 | 4.0 TTG     |                       | U A           | <b>Cardinal IG ; Hood River, OR</b>   |           |                      |                  |                       |               |
| 5103                                 | COMPOSITE | 3/16                 | 5.0 TTG     |                       | U A           | 2831                                  | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 5104                                 | COMPOSITE | 1/4                  | 6.0 TTG     |                       | U A           | 2858                                  | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 5105                                 | COMPOSITE | 1/8                  | 3.0 TPG (s) |                       | U A           | 2833                                  | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 5106                                 | COMPOSITE | 3/16                 | 5.0 TPG (d) |                       | U A           | 2834                                  | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| <b>Cardinal CT - W ; Irving TX</b>   |           |                      |             |                       |               | 2857                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s)      |                       | U A           |
| 5245                                 | COMPOSITE | 1/8                  | 3.0 TTG     |                       | U A           | 4836                                  | COMP+CAN  | 5/32                 | 4.0 TPG (d)      |                       | U A           |
| 5246                                 | COMPOSITE | 5/32                 | 4.0 TTG     |                       | U A           | 2859                                  | COMP+CAN  | 3/16                 | 5.0 TPG (m)      |                       | U A           |
| 5247                                 | COMPOSITE | 3/16                 | 5.0 TTG     |                       | U A           | <b>Cardinal IG ; Mountain Top, PA</b> |           |                      |                  |                       |               |
| 5248                                 | COMPOSITE | 1/4                  | 6.0 TTG     |                       | U A           | 3068                                  | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 5249                                 | COMPOSITE | 1/8                  | 3.0 TPG (s) |                       | U A           | 3069                                  | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 5250                                 | COMPOSITE | 3/16                 | 5.0 TPG (d) |                       | U A           | 3070                                  | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| <b>Cardinal FG ; Durant, OK</b>      |           |                      |             |                       |               | 3071                                  | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 2909                                 | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | 3073                                  | COMP+CAN  | 1/8                  | 3.0 TPG (m)      |                       | U A           |
| 2910                                 | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 3115                                  | COMP+CAN  | 5/32                 | 4.0 TPG (s)      |                       | U A           |
| 2911                                 | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 3072                                  | COMP+CAN  | 3/16                 | 5.0 TPG (m)      |                       | U A           |
| 2912                                 | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | <b>Cardinal IG ; Ocala, FL</b>        |           |                      |                  |                       |               |
| <b>Cardinal IG ; Casa Grande, AZ</b> |           |                      |             |                       |               | 3505                                  | COMPOSITE | 1/8                  | 3.0 TTG          |                       | U A           |
| 2878                                 | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | 3506                                  | COMPOSITE | 5/32                 | 4.0 TTG          |                       | U A           |
| 2879                                 | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 3507                                  | COMPOSITE | 3/16                 | 5.0 TTG          |                       | U A           |
| 2880                                 | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 3508                                  | COMPOSITE | 1/4                  | 6.0 TTG          |                       | U A           |
| 2881                                 | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 4584                                  | COMPOSITE | 1/8                  | 3.0 TPG (m)      |                       | U A           |
| 4103                                 | COMP+CAN  | 1/8                  | 3.0 TPG (s) |                       | U A           | 4587                                  | COMPOSITE | 1/4                  | 6.0 TPG (s)      |                       | U A           |
| 4104                                 | COMP+CAN  | 5/32                 | 4.0 TPG (d) |                       | U A           | 4361                                  | COMPOSITE | (S)                  | 5-6 LTG (ip)(A)  | (.035)                | U A           |
| 4105                                 | COMP+CAN  | 3/16                 | 5.0 TPG (s) |                       | U A           | 3509                                  | COMPOSITE | (S)                  | 6 LTG (b)(A)     | (.030)                | U A           |
|                                      |           |                      |             |                       |               | 3510                                  | COMPOSITE | (H)                  | 8-12 LTG (b)(A)  | (.030)                | U A           |
|                                      |           |                      |             |                       |               | 4362                                  | COMPOSITE | (H)                  | 8-12 LTG (ip)(A) | (.035)                | U A           |

## Certified Products-Alphabetical By Plant

| SGCC#                                      | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                                              | TEST STD  | INCHES (MM)       | TYPE              | MAX SIZE CERTIFIED | ANSI CLASS |
|--------------------------------------------|-----------|-------------------|------------------|--------------------|------------|------------------------------------------------------------------------------------|-----------|-------------------|-------------------|--------------------|------------|
|                                            |           | (THICKNESS CLASS) |                  |                    |            |                                                                                    |           | (THICKNESS CLASS) |                   |                    |            |
| <b>Cardinal IG ; Spring Green, WI</b>      |           |                   |                  |                    |            | <b>Cardinal TG ; Chehalis, WA</b>                                                  |           |                   |                   |                    |            |
| 1831                                       | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        | 3455                                                                               | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        |
| 5910                                       | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        | 3456                                                                               | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        |
| 5911                                       | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | 3458                                                                               | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        |
| 1834                                       | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 3459                                                                               | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        |
| 1844                                       | COMP+CAN  | 1/8               | 3.0 TPG (s)      |                    | U A        | <b>Cardinal TG ; Tomah, WI</b>                                                     |           |                   |                   |                    |            |
| 1845                                       | COMP+CAN  | 5/32              | 4.0 TPG (m)      |                    | U A        | 1804                                                                               | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        |
| 5912                                       | COMP+CAN  | 3/16              | 5.0 TPG (s)      |                    | U A        | 1805                                                                               | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        |
| <b>Cardinal IG ; Tomah, WI</b>             |           |                   |                  |                    |            | 1806                                                                               | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        |
| 2317                                       | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        | 1807                                                                               | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        |
| 2318                                       | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        | 4881                                                                               | COMP+CAN  | 5/16              | 8.0 TTG (IN)      |                    | U A        |
| 2319                                       | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | <b>Carey Glass International ; Nenagh, Co. Tipperary</b>                           |           |                   |                   |                    |            |
| 2320                                       | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 5998                                                                               | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        |
| 2321                                       | COMP+CAN  | 1/8               | 3.0 TPG (m)      |                    | U A        | 5999                                                                               | COMP+CAN  | 5/16              | 8.0 TTG           |                    | U A        |
| 2322                                       | COMP+CAN  | 5/32              | 4.0 TPG (d)      |                    | U A        | 6000                                                                               | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        |
| 2323                                       | COMP+CAN  | 3/16              | 5.0 TPG (d)      |                    | U A        | 6001                                                                               | COMP+CAN  | (H)               | 12-16+ LTG (b)(A) | (.060)             | U A        |
| <b>Cardinal IG ; Vinton, VA</b>            |           |                   |                  |                    |            | 6002                                                                               | COMP+CAN  | (H)               | 16+ LTG (ip)(A)   | (.060)             | U A        |
| 2919                                       | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        | <b>Cat-I Manufacturing, Inc. ; South Elgin, IL</b>                                 |           |                   |                   |                    |            |
| 2920                                       | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        | 5755                                                                               | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        |
| 2921                                       | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | <b>Changshu Hard Glass Co., Ltd. ; Changshu, Jiangsu, China</b>                    |           |                   |                   |                    |            |
| 2922                                       | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 2904                                                                               | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| 2923                                       | COMP+CAN  | 1/8               | 3.0 TPG (s)      |                    | U A        | 2987                                                                               | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        |
| 2924                                       | COMP+CAN  | 5/32              | 4.0 TPG (d)      |                    | U A        | 2988                                                                               | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 3619                                       | COMP+CAN  | 3/16              | 5.0 TPG (s)      |                    | U A        | <b>Changshu Weier Glass Products Co. Ltd. ; Changshu, Jiangsu, China</b>           |           |                   |                   |                    |            |
| <b>Cardinal IG ; Waxahachie, TX</b>        |           |                   |                  |                    |            | 5351                                                                               | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| 2328                                       | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        | 5352                                                                               | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        |
| 2329                                       | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        | 5353                                                                               | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 2330                                       | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | 5354                                                                               | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 2331                                       | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | <b>Changshu Xingfu Glass Building Material Co., LTD ; Changshu, Jiangsu, China</b> |           |                   |                   |                    |            |
| 2397                                       | COMP+CAN  | 1/8               | 3.0 TPG (m)      |                    | U A        | 4657                                                                               | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        |
| 4091                                       | COMP+CAN  | 5/32              | 4.0 TPG (d)      |                    | U A        | 5151                                                                               | COMP+CAN  | 5/16              | 8.0 TTG           |                    | U A        |
| 2399                                       | COMP+CAN  | 3/16              | 5.0 TPG (m)      |                    | U A        | 5152                                                                               | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        |
| <b>Cardinal LG ; Amery, WI</b>             |           |                   |                  |                    |            | <b>Changshu Zhongxin Bldg. Mat. Co. ; Changshu City, China</b>                     |           |                   |                   |                    |            |
| 5193                                       | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | 2432                                                                               | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        |
| 4841                                       | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 4363                                                                               | COMP+CAN  | (H)               | 8 LTG (b)(A)      | (.090)             | U A        |
| 4842                                       | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        | <b>Changshu Zhouxing Glass Co. Ltd. ; Changshu, Jiangsu Province, China</b>        |           |                   |                   |                    |            |
| 4843                                       | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        | 4936                                                                               | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| 4844                                       | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        | <b>Chicago Tempered Glass, Inc. ; Chicago, IL</b>                                  |           |                   |                   |                    |            |
| 4120                                       | COMP+CAN  | (S)               | 5 LTG (b)(A)     | (.015)(C1)         | U B        | 3086                                                                               | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        |
| 4350                                       | COMP+CAN  | (S)               | 5-6 LTG (ip)(A)  | (.035)             | U A        | 3087                                                                               | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 2976                                       | COMP+CAN  | (S)               | 5-6 LTG (b)(A)   | (.030)             | U A        | 3088                                                                               | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 2462                                       | COMP+CAN  | (H)               | 8-12 LTG (b)(A)  | (.030)             | U A        | 3089                                                                               | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        |
| 4351                                       | COMP+CAN  | (H)               | 8-12 LTG (ip)(A) | (.035)             | U A        | 3090                                                                               | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        |
| <b>Cardinal LG Northeast ; Jessup, PA</b>  |           |                   |                  |                    |            | <b>Clarus Glassboards ; Fort Worth, TX</b>                                         |           |                   |                   |                    |            |
| 5224                                       | COMP+CAN  | (S)               | 5-6 LTG (b)(A)   | (.030)             | U A        | 5528                                                                               | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 5225                                       | COMP+CAN  | (H)               | 8-12 LTG (b)(A)  | (.030)             | U A        |                                                                                    |           |                   |                   |                    |            |
| <b>Cardinal Tempering ; Louisville, KY</b> |           |                   |                  |                    |            |                                                                                    |           |                   |                   |                    |            |
| 3871                                       | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        |                                                                                    |           |                   |                   |                    |            |
| 3872                                       | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |                                                                                    |           |                   |                   |                    |            |
| 3873                                       | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |                                                                                    |           |                   |                   |                    |            |
| 3874                                       | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |                                                                                    |           |                   |                   |                    |            |
| 3875                                       | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |                                                                                    |           |                   |                   |                    |            |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                          | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                       | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE            | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|----------------------------------------------------------------|-----------|--------------------------------|------|------------------|-----------------------|---------------|-------------------------------------------------------------|-----------|--------------------------------|------|-----------------|-----------------------|---------------|
| <b>Classy Glass Specialties Co., Ltd ; Dongguan, Guangdong</b> |           |                                |      |                  |                       |               | <b>Contour Industries, Inc. ; Surgoinville, TN</b>          |           |                                |      |                 |                       |               |
| 5159                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 1680                                                        | COMP+CAN  | 1/8                            |      | 3.0 TTG         |                       | U A           |
| 5160                                                           | COMPOSITE | 5/16                           |      | 8.0 TTG          |                       | U A           | 4285                                                        | COMP+CAN  | 5/32                           |      | 4.0 TTG         |                       | U A           |
| 5161                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 1678                                                        | COMP+CAN  | 3/16                           |      | 5.0 TTG         |                       | U A           |
| 5162                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | 1677                                                        | COMP+CAN  | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 5163                                                           | COMPOSITE | *                              |      | 15.0 TTG (4)     |                       | U A           | 4701                                                        | COMP+CAN  | 5/16                           |      | 8.0 TTG         |                       | U A           |
| 5164                                                           | COMPOSITE | 3/4                            |      | 19.0 TTG         |                       | U A           | 4702                                                        | COMP+CAN  | 3/8                            |      | 10.0 TTG        |                       | U A           |
| 5169                                                           | COMPOSITE | (H)                            |      | 12 LTG (b)(A)    | (.030)                | U A           | 4703                                                        | COMP+CAN  | 1/8                            |      | 3.0 TPG (s)     |                       | U A           |
| 5170                                                           | COMPOSITE | (H)                            |      | 25+ LTG (b)(A)   | (.060)                | U A           | 4704                                                        | COMP+CAN  | 5/32                           |      | 4.0 TPG (IN)(s) |                       | U A           |
| <b>ClearEdge Glass ; Baton Rouge, LA</b>                       |           |                                |      |                  |                       |               | 4705                                                        | COMP+CAN  | 3/16                           |      | 5.0 TPG (s)     |                       | U A           |
| 5308                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           | <b>Contract Glass ; Wilmington, MA</b>                      |           |                                |      |                 |                       |               |
| 5310                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | 4970                                                        | COMPOSITE | 1/8                            |      | 3.0 TTG         |                       | U A           |
| 5311                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 4971                                                        | COMPOSITE | 5/32                           |      | 4.0 TTG         |                       | U A           |
| <b>Cleer Vision Tempered Glass ; Elkhart, IN</b>               |           |                                |      |                  |                       |               | 4972                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG         |                       | U A           |
| 4546                                                           | COMP+CAN  | 1/8                            |      | 3.0 TTG          |                       | U A           | 4973                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 4547                                                           | COMP+CAN  | 5/32                           |      | 4.0 TTG          |                       | U A           | 4974                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG        |                       | U A           |
| <b>Clinton Glass Company ; Knoxville, TN</b>                   |           |                                |      |                  |                       |               | 4975                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG        |                       | U A           |
| 5606                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | <b>Contractors Wardrobe ; Valencia, CA</b>                  |           |                                |      |                 |                       |               |
| 5607                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 3464                                                        | COMP+CAN  | 1/8                            |      | 3.0 TTG         |                       | U A           |
| 5608                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | 3465                                                        | COMP+CAN  | 5/32                           |      | 4.0 TTG         |                       | U A           |
| <b>Columbia Commercial Bldg Prod. ; Rockwall, TX</b>           |           |                                |      |                  |                       |               | 3466                                                        | COMP+CAN  | 3/16                           |      | 5.0 TTG         |                       | U A           |
| 4921                                                           | COMP+CAN  | 1/4                            |      | 6.0 TTG          |                       | U A           | 3467                                                        | COMP+CAN  | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 5615                                                           | COMP+CAN  | 3/8                            |      | 10.0 TTG         |                       | U A           | 3468                                                        | COMP+CAN  | 5/16                           |      | 8.0 TTG         |                       | U A           |
| 5616                                                           | COMP+CAN  | 1/2                            |      | 12.0 TTG         |                       | U A           | 3469                                                        | COMP+CAN  | 3/8                            |      | 10.0 TTG        |                       | U A           |
| <b>Comercial Dialum S.A. ; Santiago, Chile</b>                 |           |                                |      |                  |                       |               | 3470                                                        | COMP+CAN  | 1/2                            |      | 12.0 TTG        |                       | U A           |
| 5938                                                           | ANSI ONLY | (H)                            |      | 12 LTG (ip)(A)   | (.035)                | U A           | 3472                                                        | COMP+CAN  | 3/4                            |      | 19.0 TTG        |                       | U A           |
| <b>Commercial Insulating Glass Co. ; Cumberland City, TN</b>   |           |                                |      |                  |                       |               | 3473                                                        | COMP+CAN  | 1/8                            |      | 3.0 TPG (m)     |                       | U A           |
| 3806                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           | 3474                                                        | COMP+CAN  | 5/32                           |      | 4.0 TPG (d)     |                       | U A           |
| 3807                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | 3475                                                        | COMP+CAN  | 3/16                           |      | 5.0 TPG (d)     |                       | U A           |
| 3808                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 3476                                                        | COMP+CAN  | 1/4                            |      | 6.0 TPG (m)     |                       | U A           |
| <b>Commercial Insulating Glass Co. ; Sarasota, FL</b>          |           |                                |      |                  |                       |               | 3477                                                        | COMP+CAN  | 3/8                            |      | 10.0 TPG (s)    |                       | U A           |
| 1889                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG          | 30x76 A               |               | <b>Coral Industries Glass Division ; Tuscaloosa, AL</b>     |           |                                |      |                 |                       |               |
| 1890                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG          | 30x76 A               |               | 3420                                                        | COMPOSITE | 1/8                            |      | 3.0 TTG         |                       | U A           |
| 1891                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG          | 30x76 A               |               | 1910                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG         |                       | U A           |
| <b>Consolidated Armor Products, LLC ; Addison, TX</b>          |           |                                |      |                  |                       |               | 1911                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 5418                                                           | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)     | (.030)                | U A           | 2144                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG        |                       | U A           |
| 5419                                                           | COMP+CAN  | (H)                            |      | 8-16+ LTG (b)(A) | (.030)                | U A           | 2145                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG        |                       | U A           |
| <b>Consolidated Glass Corp. ; New Castle, PA</b>               |           |                                |      |                  |                       |               | 2644                                                        | COMPOSITE | 3/4                            |      | 19.0 TTG        |                       | U A           |
| 1998                                                           | COMP+CAN  | 1/8                            |      | 3.0 TTG          |                       | U A           | 1964                                                        | COMPOSITE | 3/16                           |      | 5.0 TPG (d)     |                       | U A           |
| 1999                                                           | COMP+CAN  | 5/32                           |      | 4.0 TTG          |                       | U A           | 2944                                                        | COMPOSITE | 1/4                            |      | 6.0 TPG (d)     |                       | U A           |
| 2005                                                           | COMP+CAN  | 3/16                           |      | 5.0 TTG          |                       | U A           | 2945                                                        | COMPOSITE | 3/8                            |      | 10.0 TPG (d)    |                       | U A           |
| 2002                                                           | COMP+CAN  | 1/4                            |      | 6.0 TTG          |                       | U A           | 3817                                                        | COMPOSITE | 1/2                            |      | 12.0 TPG (m)    |                       | U A           |
| 3635                                                           | COMP+CAN  | 5/16                           |      | 8.0 TTG          |                       | U A           | <b>Cristec Vipla SL ; Balaguer, Lleida</b>                  |           |                                |      |                 |                       |               |
| 2003                                                           | COMP+CAN  | 3/8                            |      | 10.0 TTG         |                       | U A           | 5695                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 2004                                                           | COMP+CAN  | 1/2                            |      | 12.0 TTG         |                       | U A           | 5696                                                        | COMPOSITE | 5/16                           |      | 8.0 TTG         |                       | U A           |
| 2355                                                           | COMP+CAN  | 5/32                           |      | 4.0 TPG (m)      |                       | U A           | 5697                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG        |                       | U A           |
| 2354                                                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (m)      |                       | U A           | 5698                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG        |                       | U A           |
| 4714                                                           | COMP+CAN  | 1/4                            |      | 6.0 TPG (m)      |                       | U A           | 5699                                                        | COMPOSITE | (H)                            |      | 12 LTG (b)(A)   | (.015)                | U A           |
| 4785                                                           | COMP+CAN  | 3/8                            |      | 10.0 TPG (s)     |                       | U A           | 5878                                                        | COMPOSITE | (H)                            |      | 12 LTG (ip)(A)  | (.035)                | U A           |
|                                                                |           |                                |      |                  |                       |               | <b>Custom Glass Products Inc. ; Weston, WI</b>              |           |                                |      |                 |                       |               |
|                                                                |           |                                |      |                  |                       |               | 4002                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
|                                                                |           |                                |      |                  |                       |               | <b>Custom Glass Solutions Millbury Corp. ; Millbury, OH</b> |           |                                |      |                 |                       |               |
|                                                                |           |                                |      |                  |                       |               | 1575                                                        | COMPOSITE | 5/32                           |      | 4.0 TTG         |                       | U A           |
|                                                                |           |                                |      |                  |                       |               | 1576                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG         |                       | U A           |
|                                                                |           |                                |      |                  |                       |               | 1577                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |

## Certified Products-Alphabetical By Plant

| SGCC#                                                                     | TEST STD  | INCHES (THICKNESS CLASS) | (MM) | TYPE         | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                                          | TEST STD  | INCHES (THICKNESS CLASS) | (MM) | TYPE               | MAX SIZE CERTIFIED | ANSI CLASS |
|---------------------------------------------------------------------------|-----------|--------------------------|------|--------------|--------------------|------------|--------------------------------------------------------------------------------|-----------|--------------------------|------|--------------------|--------------------|------------|
| <b>D3 Glass, LLC ; Fort Myers, FL</b>                                     |           |                          |      |              |                    |            | <b>Dlubak Corporation ; Blairsville, PA</b>                                    |           |                          |      |                    |                    |            |
| 4795                                                                      | COMPOSITE | 1/4                      |      | 6.0 TTG      |                    | U A        | 3017                                                                           | COMPOSITE | 1/4                      |      | 6.0 TTG            |                    | U A        |
| 4792                                                                      | COMPOSITE | 3/8                      |      | 10.0 TTG     |                    | U A        | 3018                                                                           | COMPOSITE | 1/2                      |      | 12.0 TTG           |                    | U A        |
| 4793                                                                      | COMPOSITE | 1/2                      |      | 12.0 TTG     |                    | U A        | 3019                                                                           | COMPOSITE | 3/4                      |      | 19.0 TTG           |                    | U A        |
| <b>Dalian Huaying Glass Limited Liability Co. ; Liaoning, China</b>       |           |                          |      |              |                    |            | 5965                                                                           | COMPOSITE | 1/4                      |      | 6.0 TBG            |                    | U A        |
| 5260                                                                      | COMP+CAN  | 1/8                      |      | 3.0 TTG      |                    | U A        | 5685                                                                           | COMPOSITE | (S)                      |      | 6 LTG (b)(A)       | (.030)             | U A        |
| 5261                                                                      | COMP+CAN  | 3/16                     |      | 5.0 TTG      |                    | U A        | <b>Dolphin Glass Specialists, LLC ; Hialeah, FL</b>                            |           |                          |      |                    |                    |            |
| <b>Dallas Flat Glass ; Carrollton, TX</b>                                 |           |                          |      |              |                    |            | 4729                                                                           | COMPOSITE | (H)                      |      | 12 LTG (b)(A)      | (.030)             | U A        |
| 4790                                                                      | COMPOSITE | 1/8                      |      | 3.0 TTG      |                    | U A        | <b>Dongguan CSG Architectural Glass Co., Ltd. ; Dongguan, Guangdong, China</b> |           |                          |      |                    |                    |            |
| 4763                                                                      | COMPOSITE | 3/16                     |      | 5.0 TTG      |                    | U A        | 3932                                                                           | COMP+CAN  | 5/32                     |      | 4.0 TTG            |                    | U A        |
| 3701                                                                      | COMPOSITE | 1/4                      |      | 6.0 TTG      |                    | U A        | 3933                                                                           | COMP+CAN  | 3/16                     |      | 5.0 TTG            |                    | U A        |
| 4566                                                                      | COMPOSITE | 3/8                      |      | 10.0 TTG     |                    | U A        | 3934                                                                           | COMP+CAN  | 1/4                      |      | 6.0 TTG            |                    | U A        |
| 4567                                                                      | COMPOSITE | 1/2                      |      | 12.0 TTG     |                    | U A        | 3935                                                                           | COMP+CAN  | 5/16                     |      | 8.0 TTG            |                    | U A        |
| <b>DDG Glass Manufacturing SDN BHD ; Masai, Johor</b>                     |           |                          |      |              |                    |            | 3936                                                                           | COMP+CAN  | 3/8                      |      | 10.0 TTG           |                    | U A        |
| 5621                                                                      | COMP+CAN  | 5/32                     |      | 4.0 TTG      |                    | U A        | 3937                                                                           | COMP+CAN  | 1/2                      |      | 12.0 TTG           |                    | U A        |
| 5622                                                                      | COMP+CAN  | 3/16                     |      | 5.0 TTG      |                    | U A        | 3938                                                                           | COMP+CAN  | *                        |      | 15.0 TTG (3)       |                    | U A        |
| 5623                                                                      | COMP+CAN  | 1/4                      |      | 6.0 TTG      |                    | U A        | 3939                                                                           | COMP+CAN  | 3/4                      |      | 19.0 TTG           |                    | U A        |
| 5624                                                                      | COMP+CAN  | 5/16                     |      | 8.0 TTG      |                    | U A        | 4167                                                                           | COMP+CAN  | (H)                      |      | 8-12 LTG (b)(A)    | (.030)             | U A        |
| 5625                                                                      | COMP+CAN  | 3/8                      |      | 10.0 TTG     |                    | U A        | <b>Dongguan Dongfa Glass Product Co., Ltd ; Dongguan, Guangdong, China</b>     |           |                          |      |                    |                    |            |
| 5626                                                                      | COMP+CAN  | 1/2                      |      | 12.0 TTG     |                    | U A        | 4132                                                                           | COMP+CAN  | 5/16                     |      | 8.0 TTG            |                    | U A        |
| 5627                                                                      | COMP+CAN  | *                        |      | 15.0 TTG (3) |                    | U A        | 4125                                                                           | COMP+CAN  | 3/8                      |      | 10.0 TTG           |                    | U A        |
| 5628                                                                      | COMP+CAN  | *                        |      | 19.0 TTG (3) |                    | U A        | 4126                                                                           | COMP+CAN  | 1/2                      |      | 12.0 TTG           |                    | U A        |
| <b>Denver Glass Interiors, Inc. ; Englewood, CO</b>                       |           |                          |      |              |                    |            | 4123                                                                           | COMP+CAN  | (H)                      |      | 8-12 LTG (b)(A)    | (.030)             | U A        |
| 3865                                                                      | COMPOSITE | 3/16                     |      | 5.0 TTG      |                    | U A        | 4124                                                                           | COMP+CAN  | (H)                      |      | 16+ LTG (b)(A)     | (.030)             | U A        |
| 3866                                                                      | COMPOSITE | 1/4                      |      | 6.0 TTG      |                    | U A        | <b>Dongguan Trillion Aluminum Glass Co., Ltd ; Dongguan, Guangdong, China</b>  |           |                          |      |                    |                    |            |
| 3867                                                                      | COMPOSITE | 3/8                      |      | 10.0 TTG     |                    | U A        | 5861                                                                           | COMPOSITE | 5/32                     |      | 4.0 TTG            |                    | U A        |
| 3868                                                                      | COMPOSITE | 1/2                      |      | 12.0 TTG     |                    | U A        | 5862                                                                           | COMPOSITE | 1/4                      |      | 6.0 TTG            |                    | U A        |
| 4507                                                                      | COMPOSITE | 1/4                      |      | 6.0 TPG (m)  |                    | U A        | 5863                                                                           | COMPOSITE | 5/32                     |      | 4.0 TPG (s)        |                    | U A        |
| 4508                                                                      | COMPOSITE | 3/8                      |      | 10.0 TPG (s) |                    | U A        | 5864                                                                           | COMPOSITE | 1/4                      |      | 6.0 TPG (s)        |                    | U A        |
| <b>Deqing Sanxing Plastic Chemical Co. Ltd. ; Huzhou, Zhejiang, China</b> |           |                          |      |              |                    |            | <b>Downey Glass Industries, LLC ; Pompano Beach, FL</b>                        |           |                          |      |                    |                    |            |
| 4055                                                                      | COMPOSITE | 1/8                      |      | 3.0 TTG      |                    | U A        | 2661                                                                           | COMPOSITE | 3/16                     |      | 5.0 TTG            |                    | U A        |
| 4056                                                                      | COMPOSITE | 5/32                     |      | 4.0 TTG      |                    | U A        | 2662                                                                           | COMPOSITE | 1/4                      |      | 6.0 TTG            |                    | U A        |
| 4057                                                                      | COMPOSITE | 3/16                     |      | 5.0 TTG      |                    | U A        | 5554                                                                           | COMPOSITE | 5/16                     |      | 8.0 TTG            |                    | U A        |
| 4146                                                                      | COMPOSITE | 1/4                      |      | 6.0 TTG      |                    | U A        | 2663                                                                           | COMPOSITE | 3/8                      |      | 10.0 TTG           |                    | U A        |
| 4147                                                                      | COMPOSITE | 3/8                      |      | 10.0 TTG     |                    | U A        | 2664                                                                           | COMPOSITE | 1/2                      |      | 12.0 TTG           |                    | U A        |
| <b>Diamond Sea Glaze ; Langley, BC Canada</b>                             |           |                          |      |              |                    |            | 2665                                                                           | COMPOSITE | 3/4                      |      | 19.0 TTG           |                    | U A        |
| 4499                                                                      | COMPOSITE | 5/32                     |      | 4.0 TTG      |                    | U A        | 3487                                                                           | COMPOSITE | 3/16                     |      | 5.0 TPG (s)        |                    | U A        |
| 4500                                                                      | COMPOSITE | 3/16                     |      | 5.0 TTG      |                    | U A        | 4626                                                                           | COMPOSITE | 3/8                      |      | 10.0 TPG (s)       |                    | U A        |
| 4501                                                                      | COMPOSITE | 1/4                      |      | 6.0 TTG      |                    | U A        | 5121                                                                           | COMPOSITE | (S)                      |      | 6 LTG (ip)(A)      | (.035)             | U A        |
| 4502                                                                      | COMPOSITE | 5/16                     |      | 8.0 TTG      |                    | U A        | 5122                                                                           | COMPOSITE | (H)                      |      | 10-16+ LTG (ip)(A) | (.035)             | U A        |
| 4503                                                                      | COMPOSITE | 3/8                      |      | 10.0 TTG     |                    | U A        | <b>Eckelt Glas GmbH ; Steyr, Austria</b>                                       |           |                          |      |                    |                    |            |
| 4504                                                                      | COMPOSITE | 1/2                      |      | 12.0 TTG     |                    | U A        | 2850                                                                           | COMPOSITE | 1/4                      |      | 6.0 TTG            |                    | U A        |
| 4505                                                                      | COMPOSITE | *                        |      | 15.0 TTG (3) |                    | U A        | 2851                                                                           | COMPOSITE | 5/16                     |      | 8.0 TTG            |                    | U A        |
| 4506                                                                      | COMPOSITE | 3/4                      |      | 19.0 TTG     |                    | U A        | 2852                                                                           | COMPOSITE | 3/8                      |      | 10.0 TTG           |                    | U A        |
| <b>Dillmeier Enterprise, Inc. ; Van Buren, AR</b>                         |           |                          |      |              |                    |            | 2853                                                                           | COMPOSITE | *                        |      | 12.0 TTG (3)       |                    | U A        |
| 4838                                                                      | COMPOSITE | 1/8                      |      | 3.0 TTG      |                    | U A        | 2854                                                                           | COMPOSITE | *                        |      | 15.0 TTG (3)       |                    | U A        |
| 3912                                                                      | COMPOSITE | 3/16                     |      | 5.0 TTG      |                    | U A        | 2855                                                                           | COMPOSITE | 3/4                      |      | 19.0 TTG           |                    | U A        |
| 3913                                                                      | COMPOSITE | 1/4                      |      | 6.0 TTG      |                    | U A        | <b>EFCO Corporation ; Monett, MO</b>                                           |           |                          |      |                    |                    |            |
| 4839                                                                      | COMPOSITE | 5/16                     |      | 8.0 TTG      |                    | U A        | 4121                                                                           | COMPOSITE | 1/8                      |      | 3.0 TTG            |                    | U A        |
| 3914                                                                      | COMPOSITE | 3/8                      |      | 10.0 TTG     |                    | U A        | 1901                                                                           | COMPOSITE | 3/16                     |      | 5.0 TTG            |                    | U A        |
| 3915                                                                      | COMPOSITE | 1/2                      |      | 12.0 TTG     |                    | U A        | 1902                                                                           | COMPOSITE | 1/4                      |      | 6.0 TTG            |                    | U A        |
| 3916                                                                      | COMPOSITE | 5/8                      |      | 16.0 TTG     |                    | U A        | 4154                                                                           | COMPOSITE | 5/16                     |      | 8.0 TTG            |                    | U A        |
| 3917                                                                      | COMPOSITE | 3/4                      |      | 19.0 TTG     |                    | U A        | 2143                                                                           | COMPOSITE | 3/16                     |      | 5.0 TPG (s)        |                    | U A        |

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| SGCC#                                                                                | TEST STD      | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE              | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                                                 | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE                  | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|--------------------------------------------------------------------------------------|---------------|--------------------------------|------|-------------------|-----------------------|---------------|---------------------------------------------------------------------------------------|-----------|--------------------------------|------|-----------------------|-----------------------|---------------|
| <b>EFI ; Kernersville, NC</b>                                                        |               |                                |      |                   |                       |               | <b>Fujian Xihe Sanitary Ware Technology Co., Ltd ; Nan'an<br/>Fujian China</b>        |           |                                |      |                       |                       |               |
| 5014                                                                                 | COMP+CAN      | 5/32                           |      | 4.0 TTG           |                       | U A           | 5216                                                                                  | COMPOSITE | 5/32                           |      | 4.0 TTG               |                       | U A           |
| 5208                                                                                 | COMP+CAN      | 3/16                           |      | 5.0 TTG           |                       | U A           | 5090                                                                                  | COMPOSITE | 3/16                           |      | 5.0 TTG               |                       | U A           |
| 5026                                                                                 | COMP+CAN      | 1/4                            |      | 6.0 TTG           |                       | U A           | 5091                                                                                  | COMPOSITE | 1/4                            |      | 6.0 TTG               |                       | U A           |
| 5209                                                                                 | COMP+CAN      | 5/16                           |      | 8.0 TTG           |                       | U A           | 5092                                                                                  | COMPOSITE | 5/16                           |      | 8.0 TTG               |                       | U A           |
| 5210                                                                                 | COMP+CAN      | 3/8                            |      | 10.0 TTG          |                       | U A           | 5217                                                                                  | COMPOSITE | 5/32                           |      | 4.0 TPG (s)           |                       | U A           |
| 5211                                                                                 | COMP+CAN      | 1/2                            |      | 12.0 TTG          |                       | U A           | 5218                                                                                  | COMPOSITE | 1/4                            |      | 6.0 TPG (s)           |                       | U A           |
| <b>Engineered Glass Products, L.L.C. ; Chicago, IL</b>                               |               |                                |      |                   |                       |               | <b>Galaxy Glass &amp; Stone ; Fairfield, NJ</b>                                       |           |                                |      |                       |                       |               |
| 4388                                                                                 | COMPOSITE     | 1/8                            |      | 3.0 TTG           | 30x60                 | A             | 5752                                                                                  | COMP+CAN  | (H)                            |      | 12,16 LTG (ev)(A)     | (.030)                | U A           |
| 2589                                                                                 | COMPOSITE     | 5/32                           |      | 4.0 TTG           | 30x72                 | A             | 3661                                                                                  | COMP+CAN  | (H)                            |      | 10-16+ LTG (lu)(A)(6) | (.060)                | U A           |
| 2590                                                                                 | COMPOSITE     | 3/16                           |      | 5.0 TTG           | 30x72                 | A             | <b>Garibaldi Glass Ind. Inc. ; Burnaby, BC</b>                                        |           |                                |      |                       |                       |               |
| 2698                                                                                 | COMPOSITE     | 1/4                            |      | 6.0 TTG           | 30x72                 | A             | 5124                                                                                  | COMP+CAN  | 3/16                           |      | 5.0 TTG               |                       | U A           |
| <b>Fairis C.A. ; Ambato, Tungurahua, Ecuador</b>                                     |               |                                |      |                   |                       |               | 4419                                                                                  | COMP+CAN  | 1/4                            |      | 6.0 TTG               |                       | U A           |
| 4425                                                                                 | COMPOSITE     | 5/32                           |      | 4.0 TTG           |                       | U A           | 5219                                                                                  | COMP+CAN  | 5/16                           |      | 8.0 TTG               |                       | U A           |
| 4426                                                                                 | COMPOSITE     | 3/16                           |      | 5.0 TTG           |                       | U A           | 4420                                                                                  | COMP+CAN  | 3/8                            |      | 10.0 TTG              |                       | U A           |
| 4427                                                                                 | COMPOSITE     | 1/4                            |      | 6.0 TTG           |                       | U A           | 4421                                                                                  | COMP+CAN  | 1/2                            |      | 12.0 TTG              |                       | U A           |
| 4428                                                                                 | COMPOSITE     | 5/16                           |      | 8.0 TTG           |                       | U A           | 5125                                                                                  | COMP+CAN  | *                              |      | 15.0 TTG (3)          |                       | U A           |
| 4429                                                                                 | COMPOSITE     | 3/8                            |      | 10.0 TTG          |                       | U A           | 4422                                                                                  | COMP+CAN  | 3/4                            |      | 19.0 TTG              |                       | U A           |
| 4722                                                                                 | COMPOSITE (S) |                                |      | 6 LTG (b)(A)      | (.030)                | U A           | <b>General Glass ; Portland, OR</b>                                                   |           |                                |      |                       |                       |               |
| 4430                                                                                 | COMPOSITE (H) |                                |      | 10-12 LTG (b)(A)  | (.030)                | U A           | 4031                                                                                  | COMPOSITE | 1/8                            |      | 3.0 TTG               |                       | U A           |
| <b>Flat Glass Distributors ; Jacksonville, FL</b>                                    |               |                                |      |                   |                       |               | 4032                                                                                  | COMPOSITE | 5/32                           |      | 4.0 TTG               |                       | U A           |
| 3822                                                                                 | COMPOSITE     | 1/8                            |      | 3.0 TTG           |                       | U A           | 4033                                                                                  | COMPOSITE | 3/16                           |      | 5.0 TTG               |                       | U A           |
| 3823                                                                                 | COMPOSITE     | 3/16                           |      | 5.0 TTG           |                       | U A           | 4034                                                                                  | COMPOSITE | 1/4                            |      | 6.0 TTG               |                       | U A           |
| 3824                                                                                 | COMPOSITE     | 1/4                            |      | 6.0 TTG           |                       | U A           | 5751                                                                                  | COMPOSITE | 1/2                            |      | 12.0 TTG              |                       | U A           |
| 3825                                                                                 | COMPOSITE     | 3/8                            |      | 10.0 TTG          |                       | U A           | 5750                                                                                  | COMPOSITE | 1/8                            |      | 3.0 TPG (s)           |                       | U A           |
| 3826                                                                                 | COMPOSITE     | 1/2                            |      | 12.0 TTG          |                       | U A           | 5748                                                                                  | COMPOSITE | 3/16                           |      | 5.0 TPG (s)           |                       | U A           |
| 3828                                                                                 | COMPOSITE     | 1/8                            |      | 3.0 TPG (m)       |                       | U A           | <b>GGI Glass Distributors Corp. ; Secaucus, NJ</b>                                    |           |                                |      |                       |                       |               |
| 3830                                                                                 | COMPOSITE     | 3/16                           |      | 5.0 TPG (m)       |                       | U A           | 2928                                                                                  | COMPOSITE | 5/32                           |      | 4.0 TTG (IN)          |                       | U A           |
| 3831                                                                                 | COMPOSITE     | 1/4                            |      | 6.0 TPG (s)       |                       | U A           | 2226                                                                                  | COMPOSITE | 3/16                           |      | 5.0 TTG               |                       | U A           |
| 4638                                                                                 | COMPOSITE     | 3/8                            |      | 10.0 TPG (s)      |                       | U A           | 2227                                                                                  | COMPOSITE | 1/4                            |      | 6.0 TTG               |                       | U A           |
| <b>Flat Glass Group Co., Ltd. ; Jiaxing, Zhejiang</b>                                |               |                                |      |                   |                       |               | 4248                                                                                  | COMPOSITE | 5/16                           |      | 8.0 TTG               |                       | U A           |
| 5521                                                                                 | COMPOSITE     | 3/16                           |      | 5.0 TTG           |                       | U A           | 2282                                                                                  | COMPOSITE | 3/8                            |      | 10.0 TTG              |                       | U A           |
| 5522                                                                                 | COMPOSITE     | 1/4                            |      | 6.0 TTG           |                       | U A           | 2228                                                                                  | COMPOSITE | 1/2                            |      | 12.0 TTG              |                       | U A           |
| 5523                                                                                 | COMPOSITE     | 5/16                           |      | 8.0 TTG           |                       | U A           | 3857                                                                                  | COMPOSITE | 5/8                            |      | 16.0 TTG              |                       | U A           |
| 5524                                                                                 | COMPOSITE     | 3/8                            |      | 10.0 TTG          |                       | U A           | 3858                                                                                  | COMPOSITE | 3/4                            |      | 19.0 TTG              |                       | U A           |
| 5525                                                                                 | COMPOSITE     | 1/2                            |      | 12.0 TTG          |                       | U A           | 4774                                                                                  | COMPOSITE | 1                              |      | 25.0 TTG (IN)         |                       | U A           |
| 5526                                                                                 | COMPOSITE (H) |                                |      | 10-16+ LTG (b)(A) | (.030)                | U A           | 3970                                                                                  | COMPOSITE | 5/32                           |      | 4.0 TPG (IN)(s)       |                       | U A           |
| <b>Foshan Nanhai Gangsheng Tempered Glass Factory ;<br/>Foshan, Guangdong, China</b> |               |                                |      |                   |                       |               | 3971                                                                                  | COMPOSITE | 3/16                           |      | 5.0 TPG (s)           |                       | U A           |
| 4673                                                                                 | COMP+CAN      | 5/32                           |      | 4.0 TTG (IN)      |                       | U A           | 3972                                                                                  | COMPOSITE | 1/4                            |      | 6.0 TPG (s)           |                       | U A           |
| 4669                                                                                 | COMP+CAN      | 3/16                           |      | 5.0 TTG (IN)      |                       | U A           | 3973                                                                                  | COMPOSITE | 3/8                            |      | 10.0 TPG (s)          |                       | U A           |
| 4670                                                                                 | COMP+CAN      | 1/4                            |      | 6.0 TTG (IN)      |                       | U A           | 3974                                                                                  | COMPOSITE | 1/2                            |      | 12.0 TPG (IN)(s)      |                       | U A           |
| 4671                                                                                 | COMP+CAN      | 5/16                           |      | 8.0 TTG (IN)      |                       | U A           | <b>Glas Works, Inc. ; Dania Beach, FL</b>                                             |           |                                |      |                       |                       |               |
| 4672                                                                                 | COMP+CAN      | 3/8                            |      | 10.0 TTG (IN)     |                       | U A           | 5452                                                                                  | COMPOSITE | 3/16                           |      | 5.0 TTG               |                       | U A           |
| 5549                                                                                 | COMP+CAN      | 1/2                            |      | 12.0 TTG (IN)     |                       | U A           | 5019                                                                                  | COMPOSITE | 1/4                            |      | 6.0 TTG               |                       | U A           |
| 5550                                                                                 | COMP+CAN      | 1/4                            |      | 6.0 TBG (IN)      |                       | U A           | 5020                                                                                  | COMPOSITE | 3/8                            |      | 10.0 TTG              |                       | U A           |
| 5551                                                                                 | COMP+CAN      | 5/16                           |      | 8.0 TBG (IN)      |                       | U A           | 5021                                                                                  | COMPOSITE | 1/2                            |      | 12.0 TTG              |                       | U A           |
| 5552                                                                                 | COMP+CAN      | 3/8                            |      | 10.0 TBG (IN)     |                       | U A           | <b>Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. ;<br/>Foshan, Guangdong, China</b> |           |                                |      |                       |                       |               |
| 5388                                                                                 | COMPOSITE     | 3/16                           |      | 5.0 TTG           |                       | U A           | 5388                                                                                  | COMPOSITE | 3/16                           |      | 5.0 TTG               |                       | U A           |
| 5389                                                                                 | COMPOSITE     | 1/4                            |      | 6.0 TTG           |                       | U A           | 5389                                                                                  | COMPOSITE | 1/4                            |      | 6.0 TTG               |                       | U A           |
| 5390                                                                                 | COMPOSITE     | 5/16                           |      | 8.0 TTG           |                       | U A           | 5390                                                                                  | COMPOSITE | 5/16                           |      | 8.0 TTG               |                       | U A           |
| 5391                                                                                 | COMPOSITE     | 3/8                            |      | 10.0 TTG          |                       | U A           | 5391                                                                                  | COMPOSITE | 3/8                            |      | 10.0 TTG              |                       | U A           |
| 5392                                                                                 | COMPOSITE     | 1/2                            |      | 12.0 TTG          |                       | U A           | 5392                                                                                  | COMPOSITE | 1/2                            |      | 12.0 TTG              |                       | U A           |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                            | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE          | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                   | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE      | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|------------------------------------------------------------------|-----------|--------------------------------|--------------------|-----------------------|---------------|---------------------------------------------------------|-----------|--------------------------------|----------------|-----------------------|---------------|
| <b>Glass and Mirror Craft ; Wixom, MI</b>                        |           |                                |                    |                       |               | <b>Glasswerks LA, Inc. East ; South Gate, CA</b>        |           |                                |                |                       |               |
| 4198                                                             | COMP+CAN  | 1/8                            | 3.0 TTG            |                       | U A           | 4804                                                    | COMPOSITE | 1/8                            | 3.0 TTG        |                       | U A           |
| 5116                                                             | COMP+CAN  | 5/32                           | 4.0 TTG            |                       | U A           | 5882                                                    | COMPOSITE | 5/32                           | 4.0 TTG        |                       | U A           |
| 4199                                                             | COMP+CAN  | 3/16                           | 5.0 TTG            |                       | U A           | 4805                                                    | COMPOSITE | 3/16                           | 5.0 TTG        |                       | U A           |
| 4200                                                             | COMP+CAN  | 1/4                            | 6.0 TTG            |                       | U A           | 4806                                                    | COMPOSITE | 1/4                            | 6.0 TTG        |                       | U A           |
| 5598                                                             | COMP+CAN  | 3/8                            | 10.0 TTG           |                       | U A           | 5883                                                    | COMPOSITE | 3/8                            | 10.0 TTG       |                       | U A           |
| 4202                                                             | COMP+CAN  | 1/2                            | 12.0 TTG           |                       | U A           | 5884                                                    | COMPOSITE | 1/2                            | 12.0 TTG       |                       | U A           |
| 4203                                                             | COMP+CAN  | 5/8                            | 16.0 TTG           |                       | U A           | 5885                                                    | COMPOSITE | 3/4                            | 19.0 TTG       |                       | U A           |
| 4204                                                             | COMP+CAN  | 3/4                            | 19.0 TTG           |                       | U A           | 5886                                                    | COMPOSITE | (H)                            | 12 LTG (b)(A)  | (.060)                | U A           |
| 4924                                                             | COMP+CAN  | (H)                            | 12-16+ LTG (ip)(A) | (.035)                | U A           | <b>Glasswerks LA, Inc. West ; South Gate CA</b>         |           |                                |                |                       |               |
| <b>Glass Design of Miami, Inc. ; Miami, FL</b>                   |           |                                |                    |                       |               | 5480                                                    | COMPOSITE | 5/32                           | 4.0 TTG        |                       | U A           |
| 3453                                                             | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 5481                                                    | COMPOSITE | 3/16                           | 5.0 TTG        |                       | U A           |
| 3454                                                             | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           | 5482                                                    | COMPOSITE | 1/4                            | 6.0 TTG        |                       | U A           |
| 3607                                                             | COMPOSITE | 1/2                            | 12.0 TTG           |                       | U A           | <b>Glaz-Tech Industries, Inc. ; Englewood, CO</b>       |           |                                |                |                       |               |
| 5237                                                             | COMPOSITE | 3/4                            | 19.0 TTG           |                       | U A           | 2185                                                    | COMPOSITE | 1/8                            | 3.0 TTG        |                       | U A           |
| <b>Glass Dynamics, Inc. ; Stoneville, NC</b>                     |           |                                |                    |                       |               | 2186                                                    | COMPOSITE | 3/16                           | 5.0 TTG        |                       | U A           |
| 2728                                                             | COMPOSITE | 1/8                            | 3.0 TTG            |                       | U A           | 2187                                                    | COMPOSITE | 1/4                            | 6.0 TTG        |                       | U A           |
| 2730                                                             | COMPOSITE | 3/16                           | 5.0 TTG            |                       | U A           | 5143                                                    | COMPOSITE | 3/8                            | 10.0 TTG       |                       | U A           |
| 2732                                                             | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 2189                                                    | COMPOSITE | 1/2                            | 12.0 TTG       |                       | U A           |
| 5259                                                             | COMPOSITE | 5/16                           | 8.0 TTG            |                       | U A           | 2193                                                    | COMPOSITE | 3/16                           | 5.0 TPG (s)    |                       | U A           |
| 2729                                                             | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           | <b>Glenny Glass Co. ; Milford, OH</b>                   |           |                                |                |                       |               |
| 2733                                                             | COMPOSITE | 1/2                            | 12.0 TTG           |                       | U A           | 3841                                                    | COMPOSITE | 1/8                            | 3.0 TTG        |                       | U A           |
| 2731                                                             | COMPOSITE | 5/8                            | 16.0 TTG           |                       | U A           | 3843                                                    | COMPOSITE | 3/16                           | 5.0 TTG        |                       | U A           |
| 2734                                                             | COMPOSITE | 3/4                            | 19.0 TTG           |                       | U A           | 3844                                                    | COMPOSITE | 1/4                            | 6.0 TTG        |                       | U A           |
| 4375                                                             | COMPOSITE | (S)                            | 6 LTG (b)(A)       | (.030)                | U A           | 3845                                                    | COMPOSITE | 3/8                            | 10.0 TTG       |                       | U A           |
| 4413                                                             | COMPOSITE | (S)                            | 6 LTG (ip)(A)      | (.035)                | U A           | 3846                                                    | COMPOSITE | 1/2                            | 12.0 TTG       |                       | U A           |
| 4376                                                             | COMPOSITE | (H)                            | 8-16+ LTG (b)(A)   | (.030)                | U A           | 6017                                                    | COMPOSITE | (H)                            | 10 LTG (ev)(A) | (.015)                | U A           |
| 4414                                                             | COMPOSITE | (H)                            | 8-16+ LTG (ip)(A)  | (.035)                | U A           | <b>Global Security Glazing ; Selma, AL</b>              |           |                                |                |                       |               |
| <b>Glass Enterprises, Inc. ; Bensalem, PA</b>                    |           |                                |                    |                       |               | 4764                                                    | COMP+CAN  | 1/8                            | 3.0 TTG        |                       | U A           |
| 4628                                                             | COMPOSITE | 3/16                           | 5.0 TTG            |                       | U A           | 4765                                                    | COMP+CAN  | 3/16                           | 5.0 TTG        |                       | U A           |
| 4629                                                             | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 4766                                                    | COMP+CAN  | 1/4                            | 6.0 TTG        |                       | U A           |
| <b>GlassFab Tempering Services, Inc. Mariani Ct. ; Tracy, CA</b> |           |                                |                    |                       |               | 4767                                                    | COMP+CAN  | 3/8                            | 10.0 TTG       |                       | U A           |
| 5584                                                             | COMPOSITE | 1/8                            | 3.0 TTG            |                       | U A           | 4768                                                    | COMP+CAN  | 1/2                            | 12.0 TTG       |                       | U A           |
| 4889                                                             | COMPOSITE | 3/16                           | 5.0 TTG            |                       | U A           | 4769                                                    | COMP+CAN  | (S)                            | 6 LTG (b)(A)   | (.030)                | U A           |
| 4891                                                             | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 6040                                                    | COMP+CAN  | (H)                            | 10 LTG (b)(A)  | (.150)                | U A           |
| 4892                                                             | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           | 4770                                                    | COMP+CAN  | (H)                            | 12 LTG (b)(A)  | (.060)                | U A           |
| 4890                                                             | COMPOSITE | 1/2                            | 12.0 TTG           |                       | U A           | <b>GnT Glass Co., Ltd. ; Dongguan, Guangdong, China</b> |           |                                |                |                       |               |
| 4893                                                             | COMPOSITE | 3/4                            | 19.0 TTG           |                       | U A           | 5788                                                    | COMP+CAN  | 5/16                           | 8.0 TTG        |                       | U A           |
| 4894                                                             | COMPOSITE | 1/8                            | 3.0 TPG (s)        |                       | U A           | 5789                                                    | COMP+CAN  | 3/8                            | 10.0 TTG       |                       | U A           |
| 5128                                                             | COMPOSITE | 5/32                           | 4.0 TPG (d)        |                       | U A           | 5790                                                    | COMP+CAN  | 1/2                            | 12.0 TTG       |                       | U A           |
| 4895                                                             | COMPOSITE | 3/16                           | 5.0 TPG (m)        |                       | U A           | 5791                                                    | COMP+CAN  | (H)                            | 21 LTG (b)(A)  | (.060)                | U A           |
| 4896                                                             | COMPOSITE | 1/4                            | 6.0 TPG (m)        |                       | U A           | <b>Goldray Industries Ltd. ; Calgary, AB Canada</b>     |           |                                |                |                       |               |
| 4897                                                             | COMPOSITE | 3/8                            | 10.0 TPG (s)       |                       | U A           | 2445                                                    | COMP+CAN  | 5/32                           | 4.0 TTG        |                       | U A           |
| 4898                                                             | COMPOSITE | (S)                            | 6 LTG (b)(A)       | (.030)                | U A           | 2446                                                    | COMP+CAN  | 3/16                           | 5.0 TTG        |                       | U A           |
| 4899                                                             | COMPOSITE | (H)                            | 8-12 LTG (b)(A)    | (.030)                | U A           | 2447                                                    | COMP+CAN  | 1/4                            | 6.0 TTG        |                       | U A           |
| <b>Glasshape NA L.P. ; Auckland, New Zealand</b>                 |           |                                |                    |                       |               | 2448                                                    | COMP+CAN  | 3/8                            | 10.0 TTG       |                       | U A           |
| 5714                                                             | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 2449                                                    | COMP+CAN  | 1/2                            | 12.0 TTG       |                       | U A           |
| 5715                                                             | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           |                                                         |           |                                |                |                       |               |
| 5716                                                             | COMPOSITE | 1/2                            | 12.0 TTG           |                       | U A           |                                                         |           |                                |                |                       |               |
| 5717                                                             | COMPOSITE | 3/4                            | 19.0 TTG           |                       | U A           |                                                         |           |                                |                |                       |               |

## Certified Products-Alphabetical By Plant

| SGCC#                                                                  | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE              | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                            | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE                             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|------------------------------------------------------------------------|-----------|--------------------------------|------|-------------------|-----------------------|---------------|--------------------------------------------------|-----------|--------------------------------|------|----------------------------------|-----------------------|---------------|
| <b>Guangdong Golden Glass Technologies ; Shantou, Guangdong, China</b> |           |                                |      |                   |                       |               | <b>Guardian Industries Corp. ; DeWitt, IA</b>    |           |                                |      |                                  |                       |               |
| 3941                                                                   | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 2020                                             | COMPOSITE | 1/8                            |      | 3.0 TTG                          |                       | U A           |
| 3942                                                                   | COMP+CAN  | 5/16                           |      | 8.0 TTG           |                       | U A           | 2021                                             | COMPOSITE | 5/32                           |      | 4.0 TTG                          |                       | U A           |
| 3943                                                                   | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           | 2022                                             | COMPOSITE | 3/16                           |      | 5.0 TTG                          |                       | U A           |
| 3944                                                                   | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           | 2023                                             | COMPOSITE | 1/4                            |      | 6.0 TTG                          |                       | U A           |
| 3945                                                                   | COMP+CAN  | *                              |      | 15.0 TTG (3)      |                       | U A           | 2024                                             | COMPOSITE | 5/16                           |      | 8.0 TTG                          |                       | U A           |
| 3946                                                                   | COMP+CAN  | 3/4                            |      | 19.0 TTG          |                       | U A           | 2545                                             | COMPOSITE | 3/8                            |      | 10.0 TTG                         |                       | U A           |
| 4535                                                                   | COMPOSITE | 7/8                            |      | 22.0 TTG          |                       | U A           | 2649                                             | COMPOSITE | 1/2                            |      | 12.0 TTG                         |                       | U A           |
| 3947                                                                   | COMP+CAN  | (H)                            |      | 10-16+ LTG (b)(A) | (.030)                | U A           | <b>Guardian Industries Corp. ; Galax, VA</b>     |           |                                |      |                                  |                       |               |
| 4723                                                                   | COMPOSITE | (H)                            |      | 16+ LTG (ip)(A)   | (.060)                | U B           | 4604                                             | COMP+CAN  | 1/8                            |      | 3.0 TTG                          |                       | U A           |
| <b>Guardian Fabrication Inc. ; Webster, MA</b>                         |           |                                |      |                   |                       |               | 4605                                             | COMP+CAN  | 5/32                           |      | 4.0 TTG                          |                       | U A           |
| 300                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 4606                                             | COMP+CAN  | 3/16                           |      | 5.0 TTG                          |                       | U A           |
| 1607                                                                   | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           | 4607                                             | COMP+CAN  | 1/4                            |      | 6.0 TTG                          |                       | U A           |
| 1216                                                                   | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 4608                                             | COMP+CAN  | 5/16                           |      | 8.0 TTG                          |                       | U A           |
| 662                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 4609                                             | COMP+CAN  | 3/8                            |      | 10.0 TTG                         |                       | U A           |
| 471                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 4610                                             | COMP+CAN  | 1/2                            |      | 12.0 TTG                         |                       | U A           |
| 1235                                                                   | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 4611                                             | COMP+CAN  | 3/4                            |      | 19.0 TTG (IN)                    |                       | U A           |
| 3604                                                                   | COMPOSITE | 1/8                            |      | 3.0 TPG (s)       |                       | U A           | 4612                                             | COMP+CAN  | 1/8                            |      | 3.0 TPG (s)                      |                       | U A           |
| 2451                                                                   | COMPOSITE | 5/32                           |      | 4.0 TPG (m)       |                       | U A           | 4613                                             | COMP+CAN  | 3/16                           |      | 5.0 TPG (m)                      |                       | U A           |
| 2603                                                                   | COMPOSITE | 3/16                           |      | 5.0 TPG (m)       |                       | U A           | 4627                                             | COMP+CAN  | 3/8                            |      | 10.0 TPG (s)                     |                       | U A           |
| 3024                                                                   | COMPOSITE | 7/32                           |      | 5.5 TPG (s)       |                       | U A           | 4633                                             | COMP+CAN  | (S)                            |      | 6 LTG (b)(A) (.030)              |                       | U A           |
| 4656                                                                   | COMPOSITE | 1/4                            |      | 6.0 TPG (s)       |                       | U A           | 4800                                             | COMP+CAN  | (S)                            |      | 6 LTG (b)(p)(el)(6)(A) (.075)    |                       | U A           |
| <b>Guardian IG LLC ; Sun Prairie, WI</b>                               |           |                                |      |                   |                       |               | 4829                                             | COMP+CAN  | (H)                            |      | 8-10 LTG (b)(p)(el)(6)(A) (.075) |                       | U A           |
| 5640                                                                   | COMP+CAN  | 1/8                            |      | 3.0 TTG           |                       | U A           | 4658                                             | COMP+CAN  | (H)                            |      | 8 LTG (b)(A) (.030)              |                       | U A           |
| 5641                                                                   | COMP+CAN  | 5/32                           |      | 4.0 TTG           |                       | U A           | <b>Guardian Industries Corp. ; Geneva, NY</b>    |           |                                |      |                                  |                       |               |
| 5642                                                                   | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           | 2259                                             | COMPOSITE | 1/8                            |      | 3.0 TTG                          |                       | U A           |
| 5643                                                                   | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 2260                                             | COMPOSITE | 5/32                           |      | 4.0 TTG                          |                       | U A           |
| 5644                                                                   | COMP+CAN  | 1/8                            |      | 3.0 TPG (d)       |                       | U A           | 2261                                             | COMPOSITE | 3/16                           |      | 5.0 TTG                          |                       | U A           |
| 5645                                                                   | COMP+CAN  | 5/32                           |      | 4.0 TPG (d)       |                       | U A           | 2262                                             | COMPOSITE | 1/4                            |      | 6.0 TTG                          |                       | U A           |
| 5646                                                                   | COMP+CAN  | 3/16                           |      | 5.0 TPG (d)       |                       | U A           | 3672                                             | COMPOSITE | 5/16                           |      | 8.0 TTG                          |                       | U A           |
| 5647                                                                   | COMP+CAN  | 1/4                            |      | 6.0 TPG (d)       |                       | U A           | 2519                                             | COMPOSITE | 3/8                            |      | 10.0 TTG                         |                       | U A           |
| <b>Guardian Industries Corp. ; Carleton, MI</b>                        |           |                                |      |                   |                       |               | 3673                                             | COMPOSITE | 1/2                            |      | 12.0 TTG                         |                       | U A           |
| 933                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | <b>Guardian Industries Corp. ; Kingsburg, CA</b> |           |                                |      |                                  |                       |               |
| 934                                                                    | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           | 968                                              | COMP+CAN  | 1/8                            |      | 3.0 TTG                          |                       | U A           |
| 631                                                                    | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 969                                              | COMP+CAN  | 5/32                           |      | 4.0 TTG                          |                       | U A           |
| 131                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 970                                              | COMP+CAN  | 3/16                           |      | 5.0 TTG                          |                       | U A           |
| <b>Guardian Industries Corp. ; Corsicana, TX</b>                       |           |                                |      |                   |                       |               | 971                                              | COMP+CAN  | 1/4                            |      | 6.0 TTG                          |                       | U A           |
| 1248                                                                   | COMP+CAN  | 1/8                            |      | 3.0 TTG           |                       | U A           | 1303                                             | COMP+CAN  | 1/8                            |      | 3.0 TPG (d)                      |                       | U A           |
| 1249                                                                   | COMP+CAN  | 5/32                           |      | 4.0 TTG           |                       | U A           | 1301                                             | COMP+CAN  | 5/32                           |      | 4.0 TPG (m)                      |                       | U A           |
| 1250                                                                   | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           | 1304                                             | COMP+CAN  | 3/16                           |      | 5.0 TPG (m)                      |                       | U A           |
| 1251                                                                   | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 1882                                             | COMP+CAN  | 1/4                            |      | 6.0 TPG (m)                      |                       | U A           |
| 1826                                                                   | COMP+CAN  | 5/16                           |      | 8.0 TTG           |                       | U A           | <b>Guardian Industries Corp. ; Richburg, SC</b>  |           |                                |      |                                  |                       |               |
| 1253                                                                   | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           | 1630                                             | COMPOSITE | 1/8                            |      | 3.0 TTG                          |                       | U A           |
| 1803                                                                   | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           | 1631                                             | COMPOSITE | 5/32                           |      | 4.0 TTG                          |                       | U A           |
| 2458                                                                   | COMP+CAN  | 1/8                            |      | 3.0 TPG (m)       |                       | U A           | 1632                                             | COMPOSITE | 3/16                           |      | 5.0 TTG                          |                       | U A           |
| 2459                                                                   | COMP+CAN  | 5/32                           |      | 4.0 TPG (m)       |                       | U A           | 1633                                             | COMPOSITE | 1/4                            |      | 6.0 TTG                          |                       | U A           |
| 2460                                                                   | COMP+CAN  | 3/16                           |      | 5.0 TPG (m)       |                       | U A           | 2382                                             | COMPOSITE | 5/16                           |      | 8.0 TTG                          |                       | U A           |
| 5142                                                                   | COMP+CAN  | 1/4                            |      | 6.0 TPG (m)       |                       | U A           | 1634                                             | COMPOSITE | 3/8                            |      | 10.0 TTG                         |                       | U A           |
| 5133                                                                   | COMP+CAN  | 3/8                            |      | 10.0 TPG (m)      |                       | U A           | 1683                                             | COMPOSITE | 1/8                            |      | 3.0 TPG (m)                      |                       | U A           |
|                                                                        |           |                                |      |                   |                       |               | 1635                                             | COMPOSITE | 5/32                           |      | 4.0 TPG (m)                      |                       | U A           |
|                                                                        |           |                                |      |                   |                       |               | 1865                                             | COMPOSITE | 3/16                           |      | 5.0 TPG (m)                      |                       | U A           |
|                                                                        |           |                                |      |                   |                       |               | 3002                                             | COMPOSITE | 1/4                            |      | 6.0 TPG (m)                      |                       | U A           |
|                                                                        |           |                                |      |                   |                       |               | 3003                                             | COMPOSITE | 3/8                            |      | 10.0 TPG (m)                     |                       | U A           |

## Certified Products-Alphabetical By Plant

| SGCC#                                                             | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                               | TEST STD  | INCHES (MM)       | TYPE               | MAX SIZE CERTIFIED | ANSI CLASS |
|-------------------------------------------------------------------|-----------|-------------------|------------------|--------------------|------------|---------------------------------------------------------------------|-----------|-------------------|--------------------|--------------------|------------|
|                                                                   |           | (THICKNESS CLASS) |                  |                    |            |                                                                     |           | (THICKNESS CLASS) |                    |                    |            |
| <b>Gulf Glass Industries, LLC ; Sharjah, United Arab Emirates</b> |           |                   |                  |                    |            | <b>Interglass Corp ; Miami, FL</b>                                  |           |                   |                    |                    |            |
| 4796                                                              | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | 5032                                                                | COMPOSITE | 3/16              | 5.0 TTG            |                    | U A        |
| 4797                                                              | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        | 5033                                                                | COMPOSITE | 1/4               | 6.0 TTG            |                    | U A        |
| 4798                                                              | COMPOSITE | *                 | 12.0 TTG (7)     |                    | U A        | 5034                                                                | COMPOSITE | 3/8               | 10.0 TTG           |                    | U A        |
| 4799                                                              | COMPOSITE | (H)               | 8 LTG (b)(A)     | (.030)             | U A        | 5035                                                                | COMPOSITE | 1/2               | 12.0 TTG           |                    | U A        |
| <b>Hanwood Enterprises Limited ; Wanchai, Hong Kong</b>           |           |                   |                  |                    |            | 5036                                                                | COMPOSITE | 3/4               | 19.0 TTG           |                    | U A        |
| 6003                                                              | COMPOSITE | (H)               | 8 LTG (b)(A)     | (.090)             | U A        | 5027                                                                | COMPOSITE | 3/8               | 10.0 TPG (s)       |                    | U A        |
| <b>Hartung Glass Industries Lami ; Langley, BC Canada</b>         |           |                   |                  |                    |            | <b>Intex Glass (Xiamen) Co., Ltd. ; Xiamen, Fujian, China</b>       |           |                   |                    |                    |            |
| 4431                                                              | COMPOSITE | (H)               | 16+ LTG (ip)(A)  | (.070)             | U A        | 2572                                                                | COMP+CAN  | 1/8               | 3.0 TTG            |                    | U A        |
| <b>Huachuang Longfei Glass Co., Ltd. ; Heibei China</b>           |           |                   |                  |                    |            | 2573                                                                | COMP+CAN  | 5/32              | 4.0 TTG            |                    | U A        |
| 6041                                                              | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        | 2574                                                                | COMP+CAN  | 3/16              | 5.0 TTG            |                    | U A        |
| <b>Huahui Glass (China) Co., LD ; Quanzhou City, China</b>        |           |                   |                  |                    |            | 2575                                                                | COMP+CAN  | 1/4               | 6.0 TTG            |                    | U A        |
| 5843                                                              | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 3025                                                                | COMP+CAN  | 5/16              | 8.0 TTG            |                    | U A        |
| 5844                                                              | COMPOSITE | 5/32              | 4.0 TPG (s)      |                    | U B        | 2576                                                                | COMP+CAN  | 3/8               | 10.0 TTG           |                    | U A        |
| <b>Industrial Tempering Glass ; Brooklyn, NY</b>                  |           |                   |                  |                    |            | 2577                                                                | COMP+CAN  | 1/2               | 12.0 TTG           |                    | U A        |
| 5564                                                              | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        | <b>Intigral ; Walton Hills, OH</b>                                  |           |                   |                    |                    |            |
| 5565                                                              | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | 2050                                                                | COMP+CAN  | 1/8               | 3.0 TTG            |                    | U A        |
| 3418                                                              | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        | 2051                                                                | COMP+CAN  | 5/32              | 4.0 TTG            |                    | U A        |
| 3419                                                              | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        | 2052                                                                | COMP+CAN  | 3/16              | 5.0 TTG            |                    | U A        |
| 4240                                                              | COMPOSITE | 3/4               | 19.0 TTG         |                    | U A        | 2055                                                                | COMP+CAN  | 1/4               | 6.0 TTG            |                    | U A        |
| <b>Inkan Ltd ; Brampton, ON</b>                                   |           |                   |                  |                    |            | 3631                                                                | COMP+CAN  | 1/8               | 3.0 TPG (m)        |                    | U A        |
| 5135                                                              | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 4588                                                                | COMP+CAN  | 5/32              | 4.0 TPG (m)        |                    | U A        |
| 5136                                                              | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        | <b>Jiangmen Ligo Glass Manufacture Co., Ltd. ; Guangdong, China</b> |           |                   |                    |                    |            |
| 5137                                                              | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        | 5873                                                                | COMPOSITE | 3/8               | 10.0 TTG           |                    | U A        |
| 5138                                                              | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        | 5874                                                                | COMPOSITE | (H)               | 16+ LTG (b)(A)     | (.060)             | U A        |
| 5139                                                              | COMP+CAN  | 5/8               | 16.0 TTG         |                    | U A        | <b>Jiangmen SYP Engineering Glass ; Jiangmen, Guangdong, China</b>  |           |                   |                    |                    |            |
| 5140                                                              | COMP+CAN  | 3/4               | 19.0 TTG         |                    | U A        | 4303                                                                | COMP+CAN  | 5/32              | 4.0 TTG            |                    | U A        |
| <b>Innovative Glass of America, Inc. ; Dallas, NC</b>             |           |                   |                  |                    |            | 4304                                                                | COMP+CAN  | 3/16              | 5.0 TTG            |                    | U A        |
| 3859                                                              | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        | 4305                                                                | COMP+CAN  | 1/4               | 6.0 TTG            |                    | U A        |
| 3860                                                              | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 4306                                                                | COMP+CAN  | 5/16              | 8.0 TTG            |                    | U A        |
| 3861                                                              | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        | 4307                                                                | COMP+CAN  | 3/8               | 10.0 TTG           |                    | U A        |
| 3862                                                              | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | 4308                                                                | COMP+CAN  | 1/2               | 12.0 TTG           |                    | U A        |
| 3863                                                              | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        | 4309                                                                | COMP+CAN  | *                 | 15.0 TTG (3)       |                    | U A        |
| 3864                                                              | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        | 4310                                                                | COMP+CAN  | 3/4               | 19.0 TTG           |                    | U A        |
| <b>Insulite Glass Co., Inc. ; Olathe, KS</b>                      |           |                   |                  |                    |            | 5052                                                                | COMP+CAN  | 1/4               | 6.0 TBG            |                    | U A        |
| 4473                                                              | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        | 5053                                                                | COMP+CAN  | 5/16              | 8.0 TBG            |                    | U A        |
| 4474                                                              | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 5054                                                                | COMP+CAN  | 3/8               | 10.0 TBG           |                    | U A        |
| 3714                                                              | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        | 5055                                                                | COMP+CAN  | 1/2               | 12.0 TBG           |                    | U A        |
| 3715                                                              | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | 4312                                                                | COMP+CAN  | (H)               | 8-16+ LTG (b)(A)   | (.030)             | U A        |
| 3716                                                              | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        | 4575                                                                | COMP+CAN  | (H)               | 10-16+ LTG (ip)(A) | (.060)             | U A        |
| 3717                                                              | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        | <b>Jiangyin Mingyang Glass Production ; Jiangyin City, Jiangsu</b>  |           |                   |                    |                    |            |
| 3718                                                              | COMPOSITE | (S)               | 6 LTG (b)(A)     | (.030)             | U A        | 5777                                                                | ANSI ONLY | 1/8               | 3.0 TTG            |                    | U A        |
| 3720                                                              | COMPOSITE | (H)               | 8 LTG (b)(A)     | (.060)             | U A        | 5778                                                                | ANSI ONLY | 5/32              | 4.0 TTG            |                    | U A        |
| 5513                                                              | COMPOSITE | (H)               | 10-12 LTG (b)(A) | (.030)             | U A        | 5779                                                                | ANSI ONLY | 1/4               | 6.0 TTG            |                    | U A        |
| <b>Integral Seal Mfg. Inc. ; Concord, ON Canada</b>               |           |                   |                  |                    |            | 5780                                                                | ANSI ONLY | 5/16              | 8.0 TTG            |                    | U A        |
| 4682                                                              | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        | <b>Jiaxing Joinbath Corporation ; Jiaxing, Zhejiang, China</b>      |           |                   |                    |                    |            |
| 4683                                                              | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | 5708                                                                | COMPOSITE | 5/32              | 4.0 TTG            |                    | U A        |
| 4684                                                              | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 5709                                                                | COMPOSITE | 1/4               | 6.0 TTG            |                    | U A        |
|                                                                   |           |                   |                  |                    |            | 5710                                                                | COMPOSITE | 5/16              | 8.0 TTG            |                    | U A        |
|                                                                   |           |                   |                  |                    |            | 5711                                                                | COMPOSITE | 5/32              | 4.0 TPG (m)        |                    | U A        |
|                                                                   |           |                   |                  |                    |            | 5712                                                                | COMPOSITE | 1/4               | 6.0 TPG (m)        |                    | U A        |
|                                                                   |           |                   |                  |                    |            | 5713                                                                | COMPOSITE | 3/16              | 5.0 TBG            |                    | U A        |



## Certified Products-Alphabetical By Plant

| SGCC#                                                                     | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                    | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE               | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|---------------------------------------------------------------------------|-----------|--------------------------------|------|------------------|-----------------------|---------------|----------------------------------------------------------|-----------|--------------------------------|------|--------------------|-----------------------|---------------|
| <b>Jin Yao Chang Tempered Glass Co., Ltd ; Guangdong</b>                  |           |                                |      |                  |                       |               | <b>Kohler Company ; Union City, TN</b>                   |           |                                |      |                    |                       |               |
| 5684                                                                      | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 1979                                                     | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           |
| <b>JM Glass ; Hayward, CA</b>                                             |           |                                |      |                  |                       |               | 1980                                                     | COMPOSITE | 5/32                           |      | 4.0 TTG            |                       | U A           |
| 4928                                                                      | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | 1981                                                     | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           |
| 4929                                                                      | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 1982                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 4930                                                                      | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 4668                                                     | COMPOSITE | 5/16                           |      | 8.0 TTG            |                       | U A           |
| 4931                                                                      | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | 2434                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
| <b>JYC Glass Co. Ltd. ; Foshan, Guangdong, China</b>                      |           |                                |      |                  |                       |               | 4012                                                     | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
| 3957                                                                      | COMP+CAN  | 1/8                            |      | 3.0 TTG          |                       | U A           | 1983                                                     | COMPOSITE | 1/8                            |      | 3.0 TPG (m)        |                       | U A           |
| 3958                                                                      | COMP+CAN  | 5/32                           |      | 4.0 TTG          |                       | U A           | 3532                                                     | COMPOSITE | 5/32                           |      | 4.0 TPG (m)        |                       | U A           |
| 3959                                                                      | COMP+CAN  | 3/16                           |      | 5.0 TTG          |                       | U A           | 1984                                                     | COMPOSITE | 3/16                           |      | 5.0 TPG (s)        |                       | U A           |
| 3960                                                                      | COMP+CAN  | 1/4                            |      | 6.0 TTG          |                       | U A           | 2918                                                     | COMPOSITE | 1/4                            |      | 6.0 TPG (IN)(m)    |                       | U A           |
| 3961                                                                      | COMP+CAN  | 5/16                           |      | 8.0 TTG          |                       | U A           | <b>Louisville Plate Glass Company ; Louisville, KY</b>   |           |                                |      |                    |                       |               |
| 3962                                                                      | COMP+CAN  | 3/8                            |      | 10.0 TTG         |                       | U A           | 5093                                                     | COMPOSITE | (H)                            |      | 10 LTG (lu)(A)(6)  | (.060)                | U A           |
| 3963                                                                      | COMP+CAN  | 1/2                            |      | 12.0 TTG         |                       | U A           | <b>M Industria S.A. DE C.V. ; Merida, Yucatan Mexico</b> |           |                                |      |                    |                       |               |
| 4161                                                                      | COMP+CAN  | 5/32                           |      | 4.0 TPG (m)      |                       | U A           | 5761                                                     | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           |
| 3991                                                                      | COMP+CAN  | 5/32                           |      | 4.0 TBG          |                       | U A           | 5410                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 3992                                                                      | COMP+CAN  | 3/16                           |      | 5.0 TBG          |                       | U A           | 5411                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
| 3993                                                                      | COMP+CAN  | 1/4                            |      | 6.0 TBG          |                       | U A           | 5412                                                     | COMPOSITE | (H)                            |      | 12, 20 LTG (b)(A)  | (.030)                | U A           |
| 3994                                                                      | COMP+CAN  | 5/16                           |      | 8.0 TBG          |                       | U A           | 5413                                                     | COMPOSITE | (H)                            |      | 12, 20 LTG (ip)(A) | (.035)                | U A           |
| <b>Kawneer - (Cranberry) a division of Alcoa ; Cranberry Township, PA</b> |           |                                |      |                  |                       |               | <b>M&amp;M Tempering Inc. ; Loganville, GA</b>           |           |                                |      |                    |                       |               |
| 2488                                                                      | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           | 4280                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 2489                                                                      | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | 4281                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
| 2490                                                                      | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 4282                                                     | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
| 2678                                                                      | COMPOSITE | 5/16                           |      | 8.0 TTG          |                       | U A           | <b>Maryland Glass &amp; Mirror ; Baltimore, MD</b>       |           |                                |      |                    |                       |               |
| 4394                                                                      | COMPOSITE | 1/8                            |      | 3.0 TPG (s)      |                       | U A           | 4318                                                     | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           |
| 4395                                                                      | COMPOSITE | 3/16                           |      | 5.0 TPG (s)      |                       | U A           | 4319                                                     | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           |
| 5369                                                                      | COMPOSITE | (S)                            |      | 6 LTG (b)(A)     | (.030)                | U A           | 4320                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 2748                                                                      | COMPOSITE | (H)                            |      | 8-12 LTG (ip)(A) | (.090)                | U A           | 4321                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
| 2715                                                                      | COMPOSITE | (H)                            |      | 8, 12 LTG (b)(A) | (.060)                | U A           | 4322                                                     | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
| 2716                                                                      | COMPOSITE | (H)                            |      | 10 LTG (b)(A)    | (.030)                | U A           | <b>McGrory Glass ; Paulsboro, NJ</b>                     |           |                                |      |                    |                       |               |
| 2719                                                                      | COMPOSITE | (H)                            |      | 12 LTG (b)(A)    | (.090)                | U A           | 4925                                                     | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           |
| <b>Kensington Glass Arts ; ljamsville, MD</b>                             |           |                                |      |                  |                       |               | 4813                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 5973                                                                      | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 4814                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
| 5974                                                                      | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 4815                                                     | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
| 5975                                                                      | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | 4816                                                     | COMPOSITE | 5/8                            |      | 16.0 TTG           |                       | U A           |
| 5976                                                                      | COMPOSITE | 5/8                            |      | 16.0 TTG         |                       | U A           | 4817                                                     | COMPOSITE | 3/4                            |      | 19.0 TTG           |                       | U A           |
| 5977                                                                      | COMPOSITE | 3/4                            |      | 19.0 TTG         |                       | U A           | 4818                                                     | COMPOSITE | 1/4                            |      | 6.0 TPG (s)        |                       | U A           |
| <b>Kibing Special Glass Zhangzhou Co., Ltd. ; Zhangzhou, Fujian</b>       |           |                                |      |                  |                       |               | 4819                                                     | COMPOSITE | 3/8                            |      | 10.0 TPG (s)       |                       | U A           |
| 5377                                                                      | COMPOSITE | 5/32                           |      | 4.0 TTG          |                       | U A           | 4820                                                     | COMPOSITE | 1/2                            |      | 12.0 TPG (s)       |                       | U A           |
| 5378                                                                      | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | 5262                                                     | COMPOSITE | (S)                            |      | 8 LTG (b)(A)       | (.045)                | U A           |
| 5379                                                                      | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 5263                                                     | COMPOSITE | (H)                            |      | 10-12 LTG (b)(A)   | (.030)                | U A           |
| 5380                                                                      | COMPOSITE | 5/16                           |      | 8.0 TTG          |                       | U A           | <b>Mega Tempering ; Brooklyn, NY</b>                     |           |                                |      |                    |                       |               |
| 5381                                                                      | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 4299                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 5382                                                                      | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | 4300                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
|                                                                           |           |                                |      |                  |                       |               | 4301                                                     | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
|                                                                           |           |                                |      |                  |                       |               | <b>Mercer Glass Fab LLC ; Trenton, NJ</b>                |           |                                |      |                    |                       |               |
|                                                                           |           |                                |      |                  |                       |               | 4254                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
|                                                                           |           |                                |      |                  |                       |               | 4530                                                     | COMPOSITE | 5/16                           |      | 8.0 TTG            |                       | U A           |
|                                                                           |           |                                |      |                  |                       |               | 4255                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
|                                                                           |           |                                |      |                  |                       |               | 4256                                                     | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
|                                                                           |           |                                |      |                  |                       |               | 4257                                                     | COMPOSITE | 1/4                            |      | 6.0 TPG (m)        |                       | U A           |
|                                                                           |           |                                |      |                  |                       |               | 4258                                                     | COMPOSITE | 3/8                            |      | 10.0 TPG (m)       |                       | U A           |

## Certified Products-Alphabetical By Plant

| SGCC#                                                    | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                                    | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE    | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|----------------------------------------------------------|-----------|--------------------------------|-------------------|-----------------------|---------------|--------------------------------------------------------------------------|-----------|--------------------------------|--------------|-----------------------|---------------|
| <b>Midwest Glass Fabricators Inc. ; Highland, MI</b>     |           |                                |                   |                       |               | <b>New Angle Beveling ; Hyde, PA</b>                                     |           |                                |              |                       |               |
| 6027                                                     | COMP+CAN  | 1/8                            | 3.0 TTG           |                       | U A           | 4593                                                                     | COMPOSITE | 1/8                            | 3.0 TTG      |                       | U A           |
| 6028                                                     | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           | 4594                                                                     | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           |
| 6029                                                     | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           | 4595                                                                     | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           |
| 6030                                                     | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           | 4591                                                                     | COMPOSITE | 3/8                            | 10.0 TTG     |                       | U A           |
| 6031                                                     | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           | 4592                                                                     | COMPOSITE | 1/2                            | 12.0 TTG     |                       | U A           |
| 6032                                                     | COMP+CAN  | 1/2                            | 12.0 TTG          |                       | U A           | <b>New Century Glass &amp; Aluminum LLC ; Woodside, NY</b>               |           |                                |              |                       |               |
| 6033                                                     | COMP+CAN  | 5/8                            | 16.0 TTG          |                       | U A           | 5455                                                                     | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           |
| 6034                                                     | COMP+CAN  | 3/4                            | 19.0 TTG          |                       | U A           | 5456                                                                     | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           |
| 6035                                                     | COMP+CAN  | 3/16                           | 5.0 TPG (m)       |                       | U A           | 5457                                                                     | COMPOSITE | 3/8                            | 10.0 TTG     |                       | U A           |
| 6036                                                     | COMP+CAN  | 1/4                            | 6.0 TPG (s)       |                       | U A           | 5458                                                                     | COMPOSITE | 1/2                            | 12.0 TTG     |                       | U A           |
| 6037                                                     | COMP+CAN  | 3/8                            | 10.0 TPG (m)      |                       | U A           | <b>Ningbo XinShuGuang Safety Glass Limited Co., Ltd. ; Ningbo, China</b> |           |                                |              |                       |               |
| <b>Milgard Tempering ; Dixon, CA</b>                     |           |                                |                   |                       |               | 5760                                                                     | COMPOSITE | 5/32                           | 4.0 TTG      |                       | U A           |
| 2842                                                     | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           | <b>NY Tempering LLC ; Maspeth, NY</b>                                    |           |                                |              |                       |               |
| <b>Multiver ; Vanier, QC</b>                             |           |                                |                   |                       |               | 4900                                                                     | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           |
| 2498                                                     | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           | 4901                                                                     | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           |
| 2629                                                     | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           | 4902                                                                     | COMPOSITE | 3/8                            | 10.0 TTG     |                       | U A           |
| 4524                                                     | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           | 4903                                                                     | COMPOSITE | 1/2                            | 12.0 TTG     |                       | U A           |
| 2499                                                     | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Albertville, MN</b>                     |           |                                |              |                       |               |
| 5226                                                     | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           | 3104                                                                     | COMP+CAN  | 1/8                            | 3.0 TTG      |                       | U A           |
| 5227                                                     | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           | 3105                                                                     | COMP+CAN  | 5/32                           | 4.0 TTG      |                       | U A           |
| 5228                                                     | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           | 3106                                                                     | COMP+CAN  | 3/16                           | 5.0 TTG      |                       | U A           |
| <b>Multiver Inc. ; Montreal, QC</b>                      |           |                                |                   |                       |               | 3107                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG      |                       | U A           |
| 5913                                                     | COMP+CAN  | (S)                            | 6 LTG (b)(A)      | (.015)                | U B           | 4882                                                                     | COMP+CAN  | 5/16                           | 8.0 TTG      |                       | U A           |
| 5914                                                     | COMP+CAN  | (H)                            | 8 LTG (b)(A)      | (.015)                | U B           | 3108                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG     |                       | U A           |
| 5916                                                     | COMP+CAN  | (H)                            | 8-16+ LTG (ip)(A) | (.060)                | U A           | 3109                                                                     | COMP+CAN  | 1/2                            | 12.0 TTG     |                       | U A           |
| 5915                                                     | COMP+CAN  | (H)                            | 12 LTG (b)(A)     | (.030)                | U B           | 3110                                                                     | COMP+CAN  | 5/8                            | 16.0 TTG     |                       | U A           |
| <b>Nashville Tempered Glass Corp. ; Nashville, TN</b>    |           |                                |                   |                       |               | 3111                                                                     | COMP+CAN  | 3/4                            | 19.0 TTG     |                       | U A           |
| 1416                                                     | COMP+CAN  | 1/8                            | 3.0 TTG           |                       | U A           | 3112                                                                     | COMP+CAN  | 5/32                           | 4.0 TPG (s)  |                       | U A           |
| 2497                                                     | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           | 3113                                                                     | COMP+CAN  | 3/16                           | 5.0 TPG (s)  |                       | U A           |
| 1467                                                     | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           | 3561                                                                     | COMP+CAN  | 1/4                            | 6.0 TPG (s)  |                       | U A           |
| 1417                                                     | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           | 3127                                                                     | COMP+CAN  | 3/8                            | 10.0 TPG (m) |                       | U A           |
| 5729                                                     | COMP+CAN  | 5/16                           | 8.0 TTG           |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Calgary, AB</b>                         |           |                                |              |                       |               |
| 2494                                                     | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           | 3263                                                                     | COMP+CAN  | 1/8                            | 3.0 TTG      |                       | U A           |
| 2420                                                     | COMP+CAN  | 1/8                            | 3.0 TPG (s)       |                       | U A           | 3264                                                                     | COMP+CAN  | 5/32                           | 4.0 TTG      |                       | U A           |
| 5785                                                     | COMP+CAN  | 5/32                           | 4.0 TPG (s)       |                       | U A           | 3265                                                                     | COMP+CAN  | 3/16                           | 5.0 TTG      |                       | U A           |
| 2417                                                     | COMP+CAN  | 3/16                           | 5.0 TPG (s)       |                       | U A           | 3266                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG      |                       | U A           |
| <b>Nashville Tempered Glass LLC ; Hendersonville, TN</b> |           |                                |                   |                       |               | 3267                                                                     | COMP+CAN  | 5/16                           | 8.0 TTG      |                       | U A           |
| 2691                                                     | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           | 3268                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG     |                       | U A           |
| 2692                                                     | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           | 3269                                                                     | COMP+CAN  | 1/2                            | 12.0 TTG     |                       | U A           |
| 2693                                                     | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           | 3270                                                                     | COMP+CAN  | 5/8                            | 16.0 TTG     |                       | U A           |
| 2694                                                     | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           | 3271                                                                     | COMP+CAN  | 3/4                            | 19.0 TTG     |                       | U A           |
| 4148                                                     | COMP+CAN  | 1/2                            | 12.0 TTG          |                       | U A           | 3272                                                                     | COMP+CAN  | 1/8                            | 3.0 TPG (m)  |                       | U A           |
| 5453                                                     | COMP+CAN  | 5/8                            | 16.0 TTG          |                       | U A           | 3273                                                                     | COMP+CAN  | 5/32                           | 4.0 TPG (d)  |                       | U A           |
| 5454                                                     | COMP+CAN  | 3/4                            | 19.0 TTG          |                       | U A           | 3274                                                                     | COMP+CAN  | 3/16                           | 5.0 TPG (d)  |                       | U A           |
| 5229                                                     | COMP+CAN  | (S)                            | 6 LTG (b)(A)      | (.015)                | U B           | 3275                                                                     | COMP+CAN  | 1/4                            | 6.0 TPG (m)  |                       | U A           |
| 5230                                                     | COMP+CAN  | (H)                            | 10-12 LTG (b)(A)  | (.030)                | U A           | 3262                                                                     | COMP+CAN  | 3/8                            | 10.0 TPG (d) |                       | U A           |
| 5231                                                     | COMP+CAN  | (H)                            | 12 LTG (ip)(A)    | (.035)                | U A           | <b>New Angle Beveling ; Clearfield, PA</b>                               |           |                                |              |                       |               |
| <b>New Angle Beveling ; Clearfield, PA</b>               |           |                                |                   |                       |               | 5772                                                                     | COMPOSITE | 1/8                            | 3.0 TTG      |                       | U A           |
| 5772                                                     | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           | 5774                                                                     | COMPOSITE | 3/16                           | 5.0 TTG      |                       | U A           |
| 5774                                                     | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           | 5773                                                                     | COMPOSITE | 1/4                            | 6.0 TTG      |                       | U A           |
| 5773                                                     | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           | 5775                                                                     | COMPOSITE | 3/8                            | 10.0 TTG     |                       | U A           |
| 5775                                                     | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           | 5776                                                                     | COMPOSITE | 1/2                            | 12.0 TTG     |                       | U A           |
| 5776                                                     | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |                                                                          |           |                                |              |                       |               |

## Certified Products-Alphabetical By Plant

| SGCC#                                              | TEST STD | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                  | TEST STD | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|----------------------------------------------------|----------|--------------------------------|-------------------|-----------------------|---------------|--------------------------------------------------------|----------|--------------------------------|-----------------------|-----------------------|---------------|
| <b>Oldcastle BuildingEnvelope® ; Concord, ON</b>   |          |                                |                   |                       |               | <b>Oldcastle BuildingEnvelope® ; Fremont, CA</b>       |          |                                |                       |                       |               |
| 3439                                               | COMP+CAN | 1/8                            | 3.0 TTG           |                       | U A           | 3191                                                   | COMP+CAN | 1/8                            | 3.0 TTG               |                       | U A           |
| 3440                                               | COMP+CAN | 5/32                           | 4.0 TTG           |                       | U A           | 3192                                                   | COMP+CAN | 5/32                           | 4.0 TTG               |                       | U A           |
| 3441                                               | COMP+CAN | 3/16                           | 5.0 TTG           |                       | U A           | 3193                                                   | COMP+CAN | 3/16                           | 5.0 TTG               |                       | U A           |
| 3442                                               | COMP+CAN | 1/4                            | 6.0 TTG           |                       | U A           | 3194                                                   | COMP+CAN | 1/4                            | 6.0 TTG               |                       | U A           |
| 3443                                               | COMP+CAN | 5/16                           | 8.0 TTG           |                       | U A           | 5387                                                   | COMP+CAN | 5/16                           | 8.0 TTG               |                       | U A           |
| 3444                                               | COMP+CAN | 3/8                            | 10.0 TTG          |                       | U A           | 3195                                                   | COMP+CAN | 3/8                            | 10.0 TTG              |                       | U A           |
| 3445                                               | COMP+CAN | 1/2                            | 12.0 TTG          |                       | U A           | 3196                                                   | COMP+CAN | 1/2                            | 12.0 TTG              |                       | U A           |
| 3446                                               | COMP+CAN | 5/8                            | 16.0 TTG          |                       | U A           | 4458                                                   | COMP+CAN | 5/8                            | 16.0 TTG              |                       | U A           |
| 3447                                               | COMP+CAN | 3/4                            | 19.0 TTG          |                       | U A           | 3197                                                   | COMP+CAN | 3/4                            | 19.0 TTG              |                       | U A           |
| 4424                                               | COMP+CAN | 3/16                           | 5.0 TPG (s)       |                       | U A           | 3199                                                   | COMP+CAN | 1/8                            | 3.0 TPG (s)           |                       | U A           |
| 3448                                               | COMP+CAN | 3/8                            | 10.0 TPG (s)      |                       | U A           | 3200                                                   | COMP+CAN | 5/32                           | 4.0 TPG (s)           |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Covington, GA</b> |          |                                |                   |                       |               | 3201                                                   | COMP+CAN | 3/16                           | 5.0 TPG (m)           |                       | U A           |
| 3329                                               | COMP+CAN | 1/8                            | 3.0 TTG           |                       | U A           | 3907                                                   | COMP+CAN | 1/4                            | 6.0 TPG (m)           |                       | U A           |
| 3330                                               | COMP+CAN | 5/32                           | 4.0 TTG           |                       | U A           | 3203                                                   | COMP+CAN | 3/8                            | 10.0 TPG (s)          |                       | U A           |
| 3331                                               | COMP+CAN | 3/16                           | 5.0 TTG           |                       | U A           | 4531                                                   | COMP+CAN | (S)                            | 6 LTG (b)(A)          | (.030)                | U A           |
| 3332                                               | COMP+CAN | 1/4                            | 6.0 TTG           |                       | U A           | 4460                                                   | COMP+CAN | (H)                            | 8-16+ LTG (b)(A)      | (.030)                | U A           |
| 3333                                               | COMP+CAN | 3/8                            | 10.0 TTG          |                       | U A           | 4461                                                   | COMP+CAN | (H)                            | 8-16+ LTG (ip)(A)     | (.060)                | U A           |
| 3334                                               | COMP+CAN | 1/2                            | 12.0 TTG          |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Grand Prairie, TX</b> |          |                                |                       |                       |               |
| 3335                                               | COMP+CAN | 3/4                            | 19.0 TTG          |                       | U A           | 3250                                                   | COMP+CAN | 1/8                            | 3.0 TTG               |                       | U A           |
| 3336                                               | COMP+CAN | 1/8                            | 3.0 TPG (s)       |                       | U A           | 3251                                                   | COMP+CAN | 5/32                           | 4.0 TTG               |                       | U A           |
| 3337                                               | COMP+CAN | 5/32                           | 4.0 TPG (s)       |                       | U A           | 3252                                                   | COMP+CAN | 3/16                           | 5.0 TTG               |                       | U A           |
| 3338                                               | COMP+CAN | 3/16                           | 5.0 TPG (m)       |                       | U A           | 3253                                                   | COMP+CAN | 1/4                            | 6.0 TTG               |                       | U A           |
| 3339                                               | COMP+CAN | 1/4                            | 6.0 TPG (m)       |                       | U A           | 3255                                                   | COMP+CAN | 3/8                            | 10.0 TTG              |                       | U A           |
| 3340                                               | COMP+CAN | 3/8                            | 10.0 TPG (s)      |                       | U A           | 3256                                                   | COMP+CAN | 1/2                            | 12.0 TTG              |                       | U A           |
| 4393                                               | COMP+CAN | (H)                            | 10-12 LTG (ip)(A) | (.035)                | U A           | 3257                                                   | COMP+CAN | 3/4                            | 19.0 TTG              |                       | U A           |
| 4392                                               | COMP+CAN | (H)                            | 10-16+ LTG (b)(A) | (.030)                | U A           | 3425                                                   | COMP+CAN | 1/8                            | 3.0 TPG (s)           |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Denver, CO</b>    |          |                                |                   |                       |               | 3426                                                   | COMP+CAN | 5/32                           | 4.0 TPG (m)           |                       | U A           |
| 3310                                               | COMP+CAN | 1/8                            | 3.0 TTG           |                       | U A           | 3427                                                   | COMP+CAN | 3/16                           | 5.0 TPG (s)           |                       | U A           |
| 3311                                               | COMP+CAN | 5/32                           | 4.0 TTG           |                       | U A           | 3428                                                   | COMP+CAN | 3/8                            | 10.0 TPG (s)          |                       | U A           |
| 3312                                               | COMP+CAN | 3/16                           | 5.0 TTG           |                       | U A           | 5459                                                   | COMP+CAN | (S)                            | 6 LTG (b)(A)          | (.030)                | U A           |
| 3313                                               | COMP+CAN | 1/4                            | 6.0 TTG           |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Hauppauge, NY</b>     |          |                                |                       |                       |               |
| 3314                                               | COMP+CAN | 3/8                            | 10.0 TTG          |                       | U A           | 1546                                                   | COMP+CAN | 1/8                            | 3.0 TTG               |                       | U A           |
| 3315                                               | COMP+CAN | 1/2                            | 12.0 TTG          |                       | U A           | 1547                                                   | COMP+CAN | 3/16                           | 5.0 TTG               |                       | U A           |
| 3317                                               | COMP+CAN | 1/8                            | 3.0 TPG (s)       |                       | U A           | 1548                                                   | COMP+CAN | 1/4                            | 6.0 TTG               |                       | U A           |
| 3318                                               | COMP+CAN | 5/32                           | 4.0 TPG (d)       |                       | U A           | 4180                                                   | COMP+CAN | 5/16                           | 8.0 TTG               |                       | U A           |
| 3319                                               | COMP+CAN | 3/16                           | 5.0 TPG (m)       |                       | U A           | 1549                                                   | COMP+CAN | 3/8                            | 10.0 TTG              |                       | U A           |
| 3320                                               | COMP+CAN | 1/4                            | 6.0 TPG (s)       |                       | U A           | 1550                                                   | COMP+CAN | 1/2                            | 12.0 TTG              |                       | U A           |
| 3321                                               | COMP+CAN | 3/8                            | 10.0 TPG (s)      |                       | U A           | 4181                                                   | COMP+CAN | 5/8                            | 16.0 TTG              |                       | U A           |
| 4533                                               | COMP+CAN | (S)                            | 6 LTG (b)(A)      | (.030)                | U A           | 1551                                                   | COMP+CAN | 3/4                            | 19.0 TTG              |                       | U A           |
| 4454                                               | COMP+CAN | (H)                            | 8-16+ LTG (b)(A)  | (.030)                | U A           | 3492                                                   | COMP+CAN | 3/16                           | 5.0 TPG (d)           |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3392                                                   | COMP+CAN | (S)                            | 6 LTG (b)(A)          | (.030)                | U A           |
|                                                    |          |                                |                   |                       |               | 5718                                                   | COMP+CAN | (S)                            | 6 LTG (ip)(A)         | (.060)                | U A           |
|                                                    |          |                                |                   |                       |               | 5355                                                   | COMP+CAN | (H)                            | 8, 12-16+ LTG (ip)(A) | (.060)                | U A           |
|                                                    |          |                                |                   |                       |               | 4618                                                   | COMP+CAN | (H)                            | 8-16+ LTG (b)(A)      | (.030)                | U A           |
|                                                    |          |                                |                   |                       |               | <b>Oldcastle BuildingEnvelope® ; Houston, TX</b>       |          |                                |                       |                       |               |
|                                                    |          |                                |                   |                       |               | 3156                                                   | COMP+CAN | 1/8                            | 3.0 TTG               |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3157                                                   | COMP+CAN | 5/32                           | 4.0 TTG               |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3158                                                   | COMP+CAN | 3/16                           | 5.0 TTG               |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3159                                                   | COMP+CAN | 1/4                            | 6.0 TTG               |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3160                                                   | COMP+CAN | 3/8                            | 10.0 TTG              |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3161                                                   | COMP+CAN | 1/2                            | 12.0 TTG              |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3163                                                   | COMP+CAN | 5/32                           | 4.0 TPG (d)           |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3164                                                   | COMP+CAN | 3/16                           | 5.0 TPG (m)           |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3165                                                   | COMP+CAN | 1/4                            | 6.0 TPG (m)           |                       | U A           |
|                                                    |          |                                |                   |                       |               | 3166                                                   | COMP+CAN | 3/8                            | 10.0 TPG (s)          |                       | U A           |
|                                                    |          |                                |                   |                       |               | 4402                                                   | COMP+CAN | (H)                            | 8-16+ LTG (b)(A)      | (.030)                | U A           |
|                                                    |          |                                |                   |                       |               | 4401                                                   | COMP+CAN | (H)                            | 12 LTG (ip)(A)        | (.090)                | U A           |

## Certified Products-Alphabetical By Plant

|                                                |          |                          |      | MAX SIZE ANSI     |           |       |                                              |          |                          | MAX SIZE ANSI |                   |           |       |
|------------------------------------------------|----------|--------------------------|------|-------------------|-----------|-------|----------------------------------------------|----------|--------------------------|---------------|-------------------|-----------|-------|
| SGCC#                                          | TEST STD | INCHES (THICKNESS CLASS) | (MM) | TYPE              | CERTIFIED | CLASS | SGCC#                                        | TEST STD | INCHES (THICKNESS CLASS) | (MM)          | TYPE              | CERTIFIED | CLASS |
| Oldcastle BuildingEnvelope® ; Indianapolis, IN |          |                          |      |                   |           |       | Oldcastle BuildingEnvelope® ; Moorestown, NJ |          |                          |               |                   |           |       |
| 2210                                           | COMP+CAN | 1/8                      |      | 3.0 TTG           |           | U A   | 3180                                         | COMP+CAN | 1/8                      |               | 3.0 TTG           |           | U A   |
| 2216                                           | COMP+CAN | 5/32                     |      | 4.0 TTG           |           | U A   | 3181                                         | COMP+CAN | 5/32                     |               | 4.0 TTG           |           | U A   |
| 2211                                           | COMP+CAN | 3/16                     |      | 5.0 TTG           |           | U A   | 3182                                         | COMP+CAN | 3/16                     |               | 5.0 TTG           |           | U A   |
| 2212                                           | COMP+CAN | 1/4                      |      | 6.0 TTG           |           | U A   | 3183                                         | COMP+CAN | 1/4                      |               | 6.0 TTG           |           | U A   |
| 2213                                           | COMP+CAN | 3/8                      |      | 10.0 TTG          |           | U A   | 3184                                         | COMP+CAN | 3/8                      |               | 10.0 TTG          |           | U A   |
| 2214                                           | COMP+CAN | 1/2                      |      | 12.0 TTG          |           | U A   | 3185                                         | COMP+CAN | 1/2                      |               | 12.0 TTG          |           | U A   |
| 4384                                           | COMP+CAN | 1/8                      |      | 3.0 TPG (s)       |           | U A   | 4054                                         | COMP+CAN | 5/8                      |               | 16.0 TTG          |           | U A   |
| 2215                                           | COMP+CAN | 3/16                     |      | 5.0 TPG (s)       |           | U A   | 3186                                         | COMP+CAN | 1/8                      |               | 3.0 TPG (m)       |           | U A   |
| 5442                                           | COMP+CAN | 1/4                      |      | 6.0 TPG (d)       |           | U A   | 3187                                         | COMP+CAN | 5/32                     |               | 4.0 TPG (d)       |           | U A   |
| 3259                                           | COMP+CAN | 3/8                      |      | 10.0 TPG (s)      |           | U A   | 3188                                         | COMP+CAN | 3/16                     |               | 5.0 TPG (m)       |           | U A   |
| Oldcastle BuildingEnvelope® ; Langley, BC      |          |                          |      |                   |           |       | 3189                                         | COMP+CAN | 1/4                      |               | 6.0 TPG (m)       |           | U A   |
| 3286                                           | COMP+CAN | 1/8                      |      | 3.0 TTG           |           | U A   | 3190                                         | COMP+CAN | 3/8                      |               | 10.0 TPG (s)      |           | U A   |
| 3287                                           | COMP+CAN | 5/32                     |      | 4.0 TTG           |           | U A   | Oldcastle BuildingEnvelope® ; Perrysburg, OH |          |                          |               |                   |           |       |
| 3288                                           | COMP+CAN | 3/16                     |      | 5.0 TTG           |           | U A   | 3233                                         | COMP+CAN | 1/8                      |               | 3.0 TTG           |           | U A   |
| 3289                                           | COMP+CAN | 1/4                      |      | 6.0 TTG           |           | U A   | 3234                                         | COMP+CAN | 5/32                     |               | 4.0 TTG           |           | U A   |
| 3290                                           | COMP+CAN | 5/16                     |      | 8.0 TTG           |           | U A   | 3235                                         | COMP+CAN | 3/16                     |               | 5.0 TTG           |           | U A   |
| 3291                                           | COMP+CAN | 3/8                      |      | 10.0 TTG          |           | U A   | 3236                                         | COMP+CAN | 1/4                      |               | 6.0 TTG           |           | U A   |
| 3292                                           | COMP+CAN | 1/2                      |      | 12.0 TTG          |           | U A   | 4443                                         | COMP+CAN | 5/16                     |               | 8.0 TTG           |           | U A   |
| 3293                                           | COMP+CAN | 5/8                      |      | 16.0 TTG          |           | U A   | 3237                                         | COMP+CAN | 3/8                      |               | 10.0 TTG          |           | U A   |
| 3294                                           | COMP+CAN | 3/4                      |      | 19.0 TTG          |           | U A   | 3238                                         | COMP+CAN | 1/2                      |               | 12.0 TTG          |           | U A   |
| 3295                                           | COMP+CAN | 1/8                      |      | 3.0 TPG (m)       |           | U A   | 3239                                         | COMP+CAN | 5/8                      |               | 16.0 TTG          |           | U A   |
| 3296                                           | COMP+CAN | 5/32                     |      | 4.0 TPG (d)       |           | U A   | 3240                                         | COMP+CAN | 3/4                      |               | 19.0 TTG          |           | U A   |
| 3297                                           | COMP+CAN | 3/16                     |      | 5.0 TPG (d)       |           | U A   | 3242                                         | COMP+CAN | 1/8                      |               | 3.0 TPG (s)       |           | U A   |
| 4710                                           | COMP+CAN | 3/8                      |      | 10.0 TPG (s)      |           | U A   | 3243                                         | COMP+CAN | 3/16                     |               | 5.0 TPG (m)       |           | U A   |
| 4475                                           | COMP+CAN | (S)                      |      | 6 LTG (b)(A)      | (.030)    | U B   | 3244                                         | COMP+CAN | 1/4                      |               | 6.0 TPG (m)       |           | U A   |
| 4476                                           | COMP+CAN | (H)                      |      | 8-16+ LTG (b)(A)  | (.030)    | U B   | 3245                                         | COMP+CAN | 3/8                      |               | 10.0 TPG (m)      |           | U A   |
| Oldcastle BuildingEnvelope® ; Los Angeles, CA  |          |                          |      |                   |           |       | 4700                                         | COMP+CAN | (S)                      |               | 6 LTG (b)(A)      | (.030)    | U A   |
| 1608                                           | COMP+CAN | 1/8                      |      | 3.0 TTG           |           | U A   | 4446                                         | COMP+CAN | (H)                      |               | 8-16+ LTG (b)(A)  | (.030)    | U A   |
| 1609                                           | COMP+CAN | 5/32                     |      | 4.0 TTG           |           | U A   | 4444                                         | COMP+CAN | (H)                      |               | 8-16+ LTG (ip)(A) | (.060)    | U A   |
| 630                                            | COMP+CAN | 3/16                     |      | 5.0 TTG           |           | U A   | Oldcastle BuildingEnvelope® ; Phoenix, AZ    |          |                          |               |                   |           |       |
| 514                                            | COMP+CAN | 1/4                      |      | 6.0 TTG           |           | U A   | 3128                                         | COMP+CAN | 1/8                      |               | 3.0 TTG           |           | U A   |
| 4400                                           | COMP+CAN | 5/16                     |      | 8.0 TTG           |           | U A   | 3130                                         | COMP+CAN | 3/16                     |               | 5.0 TTG           |           | U A   |
| 515                                            | COMP+CAN | 3/8                      |      | 10.0 TTG          |           | U A   | 3131                                         | COMP+CAN | 1/4                      |               | 6.0 TTG           |           | U A   |
| 516                                            | COMP+CAN | 1/2                      |      | 12.0 TTG          |           | U A   | 3132                                         | COMP+CAN | 3/8                      |               | 10.0 TTG          |           | U A   |
| 4387                                           | COMP+CAN | 5/8                      |      | 16.0 TTG          |           | U A   | 3133                                         | COMP+CAN | 1/2                      |               | 12.0 TTG          |           | U A   |
| 2074                                           | COMP+CAN | 3/4                      |      | 19.0 TTG          |           | U A   | 3134                                         | COMP+CAN | 1/8                      |               | 3.0 TPG (s)       |           | U A   |
| 935                                            | COMP+CAN | 3/16                     |      | 5.0 TPG (s)       |           | U A   | 3135                                         | COMP+CAN | 5/32                     |               | 4.0 TPG (s)       |           | U A   |
| 4133                                           | COMP+CAN | 1/4                      |      | 6.0 TPG (s)       |           | U A   | 3136                                         | COMP+CAN | 3/16                     |               | 5.0 TPG (m)       |           | U A   |
| 3793                                           | COMP+CAN | 3/8                      |      | 10.0 TPG (d)      |           | U A   | 3999                                         | COMP+CAN | 1/4                      |               | 6.0 TPG (s)       |           | U A   |
| 4346                                           | COMP+CAN | (S)                      |      | 6 LTG (b)(A)      | (.030)    | U A   | 3729                                         | COMP+CAN | 3/8                      |               | 10.0 TPG (s)      |           | U A   |
| 5630                                           | COMP+CAN | (S)                      |      | 6 LTG (ip)(A)     | (.035)    | U A   | Oldcastle BuildingEnvelope® ; Rock Hill, SC  |          |                          |               |                   |           |       |
| 4563                                           | COMP+CAN | (H)                      |      | 8-16+ LTG (b)(A)  | (.030)    | U A   | 3276                                         | COMP+CAN | 1/8                      |               | 3.0 TTG           |           | U A   |
| 4561                                           | COMP+CAN | (H)                      |      | 8-16+ LTG (ip)(A) | (.035)    | U A   | 3462                                         | COMP+CAN | 5/32                     |               | 4.0 TTG           |           | U A   |
| Oldcastle BuildingEnvelope® ; Miami, FL        |          |                          |      |                   |           |       | 3277                                         | COMP+CAN | 3/16                     |               | 5.0 TTG           |           | U A   |
| 3496                                           | COMP+CAN | 1/8                      |      | 3.0 TTG           |           | U A   | 3278                                         | COMP+CAN | 1/4                      |               | 6.0 TTG           |           | U A   |
| 3497                                           | COMP+CAN | 3/16                     |      | 5.0 TTG           |           | U A   | 4787                                         | COMP+CAN | 5/16                     |               | 8.0 TTG (IN)      |           | U A   |
| 3498                                           | COMP+CAN | 1/4                      |      | 6.0 TTG           |           | U A   | 3279                                         | COMP+CAN | 3/8                      |               | 10.0 TTG          |           | U A   |
| 3499                                           | COMP+CAN | 3/8                      |      | 10.0 TTG          |           | U A   | 3280                                         | COMP+CAN | 1/2                      |               | 12.0 TTG          |           | U A   |
| 3500                                           | COMP+CAN | 1/2                      |      | 12.0 TTG          |           | U A   | 3281                                         | COMP+CAN | 1/8                      |               | 3.0 TPG (s)       |           | U A   |
| 3501                                           | COMP+CAN | 1/8                      |      | 3.0 TPG (s)       |           | U A   | 4396                                         | COMP+CAN | 5/32                     |               | 4.0 TPG (d)       |           | U A   |
| 3502                                           | COMP+CAN | 3/16                     |      | 5.0 TPG (m)       |           | U A   | 3283                                         | COMP+CAN | 3/16                     |               | 5.0 TPG (d)       |           | U A   |
| 4477                                           | COMP+CAN | 1/4                      |      | 6.0 TPG (d)       |           | U A   | 3284                                         | COMP+CAN | 1/4                      |               | 6.0 TPG (d)       |           | U A   |
| 3503                                           | COMP+CAN | 3/8                      |      | 10.0 TPG (s)      |           | U A   | 3285                                         | COMP+CAN | 3/8                      |               | 10.0 TPG (d)      |           | U A   |
| 4001                                           | COMP+CAN | (S)                      |      | 6 LTG (b)(A)      | (.030)    | U A   |                                              |          |                          |               |                   |           |       |
| 4397                                           | COMP+CAN | (S)                      |      | 6 LTG (ip)(A)     | (.035)    | U A   |                                              |          |                          |               |                   |           |       |
| 4398                                           | COMP+CAN | (H)                      |      | 8-16+ LTG (b)(A)  | (.030)    | U A   |                                              |          |                          |               |                   |           |       |
| 4399                                           | COMP+CAN | (H)                      |      | 8-16+ LTG (ip)(A) | (.035)    | U A   |                                              |          |                          |               |                   |           |       |

## Certified Products-Alphabetical By Plant

| SGCC#                                              | TEST STD | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE        | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                                    | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|----------------------------------------------------|----------|--------------------------------|------------------|-----------------------|---------------|--------------------------------------------------------------------------|-----------|--------------------------------|-------------------|-----------------------|---------------|
| <b>Oldcastle BuildingEnvelope® ; Schofield, WI</b> |          |                                |                  |                       |               | <b>Oldcastle BuildingEnvelope® ; Warrenton, MO</b>                       |           |                                |                   |                       |               |
| 3167                                               | COMP+CAN | 1/8                            | 3.0 TTG          |                       | U A           | 3144                                                                     | COMP+CAN  | 1/8                            | 3.0 TTG           |                       | U A           |
| 3168                                               | COMP+CAN | 5/32                           | 4.0 TTG          |                       | U A           | 3145                                                                     | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           |
| 3169                                               | COMP+CAN | 3/16                           | 5.0 TTG          |                       | U A           | 3146                                                                     | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           |
| 3170                                               | COMP+CAN | 1/4                            | 6.0 TTG          |                       | U A           | 3147                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           |
| 3171                                               | COMP+CAN | 5/16                           | 8.0 TTG          |                       | U A           | 3796                                                                     | COMP+CAN  | 5/16                           | 8.0 TTG           |                       | U A           |
| 3172                                               | COMP+CAN | 3/8                            | 10.0 TTG         |                       | U A           | 3148                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           |
| 3173                                               | COMP+CAN | 1/2                            | 12.0 TTG         |                       | U A           | 3149                                                                     | COMP+CAN  | 1/2                            | 12.0 TTG          |                       | U A           |
| 3177                                               | COMP+CAN | 5/32                           | 4.0 TPG (d)      |                       | U A           | 5904                                                                     | COMP+CAN  | 5/8                            | 16.0 TTG          |                       | U A           |
| 3178                                               | COMP+CAN | 3/16                           | 5.0 TPG (d)      |                       | U A           | 3151                                                                     | COMP+CAN  | 1/8                            | 3.0 TPG (s)       |                       | U A           |
| 3179                                               | COMP+CAN | 1/4                            | 6.0 TPG (d)      |                       | U A           | 3152                                                                     | COMP+CAN  | 5/32                           | 4.0 TPG (s)       |                       | U A           |
| 3176                                               | COMP+CAN | (S)                            | 6 LTG (b)(A)     | (.030)                | U A           | 3153                                                                     | COMP+CAN  | 3/16                           | 5.0 TPG (m)       |                       | U A           |
| 4558                                               | COMP+CAN | (H)                            | 8-16+ LTG (b)(A) | (.030)                | U A           | 3154                                                                     | COMP+CAN  | 1/4                            | 6.0 TPG (m)       |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Shawnee, OK</b>   |          |                                |                  |                       |               | 3155                                                                     | COMP+CAN  | 3/8                            | 10.0 TPG (d)      |                       | U A           |
| 3095                                               | COMP+CAN | 1/8                            | 3.0 TTG          |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Wright City, MO</b>                     |           |                                |                   |                       |               |
| 3096                                               | COMP+CAN | 5/32                           | 4.0 TTG          |                       | U A           | 3137                                                                     | COMP+CAN  | 1/8                            | 3.0 TTG           |                       | U A           |
| 3097                                               | COMP+CAN | 3/16                           | 5.0 TTG          |                       | U A           | 3138                                                                     | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           |
| 3098                                               | COMP+CAN | 1/4                            | 6.0 TTG          |                       | U A           | 3139                                                                     | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           |
| 3099                                               | COMP+CAN | 3/8                            | 10.0 TTG         |                       | U A           | 3140                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           |
| 3100                                               | COMP+CAN | 1/2                            | 12.0 TTG         |                       | U A           | 3141                                                                     | COMP+CAN  | 5/16                           | 8.0 TTG           |                       | U A           |
| 3101                                               | COMP+CAN | 1/8                            | 3.0 TPG (m)      |                       | U A           | 3142                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           |
| 3102                                               | COMP+CAN | 5/32                           | 4.0 TPG (m)      |                       | U A           | 3143                                                                     | COMP+CAN  | 1/2                            | 12.0 TTG          |                       | U A           |
| 3103                                               | COMP+CAN | 3/16                           | 5.0 TPG (m)      |                       | U A           | 4528                                                                     | COMP+CAN  | (S)                            | 6 LTG (ip)(A)     | (.035)                | U A           |
| <b>Oldcastle BuildingEnvelope® ; Tampa, FL</b>     |          |                                |                  |                       |               | 4526                                                                     | COMP+CAN  | (S)                            | 6 LTG (b)(A)      | (.030)                | U A           |
| 3116                                               | COMP+CAN | 1/8                            | 3.0 TTG          |                       | U A           | 4527                                                                     | COMP+CAN  | (H)                            | 8-16+ LTG (b)(A)  | (.030)                | U A           |
| 3118                                               | COMP+CAN | 3/16                           | 5.0 TTG          |                       | U A           | 4529                                                                     | COMP+CAN  | (H)                            | 8-16+ LTG (ip)(A) | (.035)                | U A           |
| 3119                                               | COMP+CAN | 1/4                            | 6.0 TTG          |                       | U A           | <b>Oldcastle BuildingEnvelope® Canada Inc. ; Pointe-aux-Trembles, QC</b> |           |                                |                   |                       |               |
| 3120                                               | COMP+CAN | 3/8                            | 10.0 TTG         |                       | U A           | 1996                                                                     | COMP+CAN  | 1/8                            | 3.0 TTG           |                       | U A           |
| 3121                                               | COMP+CAN | 1/2                            | 12.0 TTG         |                       | U A           | 4247                                                                     | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           |
| 3122                                               | COMP+CAN | 1/8                            | 3.0 TPG (s)      |                       | U A           | 1997                                                                     | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           |
| 3124                                               | COMP+CAN | 3/16                           | 5.0 TPG (m)      |                       | U A           | 2543                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           |
| 3125                                               | COMP+CAN | 1/4                            | 6.0 TPG (m)      |                       | U A           | 2884                                                                     | COMP+CAN  | 5/16                           | 8.0 TTG           |                       | U A           |
| 4340                                               | COMP+CAN | 3/8                            | 10.0 TPG (s)     |                       | U A           | 2544                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           |
| 4448                                               | COMP+CAN | (S)                            | 6 LTG (b)(A)     | (.030)                | U A           | 2062                                                                     | COMP+CAN  | 1/2                            | 12.0 TTG          |                       | U A           |
| 4449                                               | COMP+CAN | (H)                            | 8-16+ LTG (b)(A) | (.030)                | U A           | 2063                                                                     | COMP+CAN  | 5/8                            | 16.0 TTG          |                       | U A           |
| 5051                                               | COMP+CAN | (H)                            | 12 LTG (ip)(A)   | (.035)                | U A           | 2885                                                                     | COMP+CAN  | 3/4                            | 19.0 TTG          |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Vancouver, WA</b> |          |                                |                  |                       |               | 4432                                                                     | COMP+CAN  | (S)                            | 6 LTG (ip)(A)     | (.035)                | U A           |
| 3219                                               | COMP+CAN | 1/8                            | 3.0 TTG          |                       | U A           | 5024                                                                     | COMP+CAN  | (S)                            | 6 LTG (b)(A)      | (.015)(C1)            | U B           |
| 3220                                               | COMP+CAN | 5/32                           | 4.0 TTG          |                       | U A           | 5025                                                                     | COMP+CAN  | (S)                            | 6 LTG (b)(A)      | (.030)                | U A           |
| 3221                                               | COMP+CAN | 3/16                           | 5.0 TTG          |                       | U A           | 4433                                                                     | COMP+CAN  | (H)                            | 8-16+ LTG (ip)(A) | (.035)                | U A           |
| 3222                                               | COMP+CAN | 1/4                            | 6.0 TTG          |                       | U A           | 4435                                                                     | COMP+CAN  | (H)                            | 8-16+ LTG (b)(A)  | (.030)                | U A           |
| 3223                                               | COMP+CAN | 5/16                           | 8.0 TTG          |                       | U A           | <b>Paragon Tempered Glass ; Antwerp, OH</b>                              |           |                                |                   |                       |               |
| 3224                                               | COMP+CAN | 3/8                            | 10.0 TTG         |                       | U A           | 2684                                                                     | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 3225                                               | COMP+CAN | 1/2                            | 12.0 TTG         |                       | U A           | 2685                                                                     | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| 3226                                               | COMP+CAN | 1/8                            | 3.0 TPG (s)      |                       | U A           | 2686                                                                     | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 3227                                               | COMP+CAN | 5/32                           | 4.0 TPG (d)      |                       | U A           | 2687                                                                     | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 3228                                               | COMP+CAN | 3/16                           | 5.0 TPG (m)      |                       | U A           | 2688                                                                     | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 3229                                               | COMP+CAN | 1/4                            | 6.0 TPG (m)      |                       | U A           | 5242                                                                     | COMPOSITE | 3/16                           | 5.0 TBG           |                       | U A           |
| 3230                                               | COMP+CAN | 3/8                            | 10.0 TPG (m)     |                       | U A           | 4811                                                                     | COMPOSITE | 1/4                            | 6.0 TBG           |                       | U A           |
|                                                    |          |                                |                  |                       |               | <b>Patio Enclosures ; Macedonia, OH</b>                                  |           |                                |                   |                       |               |
|                                                    |          |                                |                  |                       |               | 2057                                                                     | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
|                                                    |          |                                |                  |                       |               | 3015                                                                     | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
|                                                    |          |                                |                  |                       |               | <b>Pennsylvania Insulating Glass ; Lewistown, PA</b>                     |           |                                |                   |                       |               |
|                                                    |          |                                |                  |                       |               | 3918                                                                     | COMPOSITE | (S)                            | 5-6 LTG (b)(A)    | (.030)                | U A           |
|                                                    |          |                                |                  |                       |               | 3919                                                                     | COMPOSITE | (H)                            | 8-12 LTG (b)(A)   | (.030)                | U A           |

## Certified Products-Alphabetical By Plant

| SGCC#                                                              | TEST STD  | INCHES (MM)       | TYPE                | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                                                                  | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS |
|--------------------------------------------------------------------|-----------|-------------------|---------------------|--------------------|------------|--------------------------------------------------------------------------------------------------------|-----------|-------------------|------------------|--------------------|------------|
|                                                                    |           | (THICKNESS CLASS) |                     |                    |            |                                                                                                        |           | (THICKNESS CLASS) |                  |                    |            |
| <b>Perficom S.A. DE C.V. ; San Juan Del Rio, Querétaro, Mexico</b> |           |                   |                     |                    |            | <b>Prelco Inc. ; Riviere-du-loup, QC</b>                                                               |           |                   |                  |                    |            |
| 4512                                                               | COMPOSITE | 1/8               | 3.0 TTG             |                    | U A        | 2034                                                                                                   | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        |
| <b>PFG Glass ; Langley, BC</b>                                     |           |                   |                     |                    |            | 2035                                                                                                   | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 3538                                                               | COMP+CAN  | 1/8               | 3.0 TTG             |                    | U A        | 2713                                                                                                   | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 3539                                                               | COMP+CAN  | 5/32              | 4.0 TTG             |                    | U A        | 2015                                                                                                   | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 3540                                                               | COMP+CAN  | 3/16              | 5.0 TTG             |                    | U A        | 2751                                                                                                   | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        |
| 3541                                                               | COMP+CAN  | 1/4               | 6.0 TTG             |                    | U A        | 2381                                                                                                   | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 3542                                                               | COMP+CAN  | 5/16              | 8.0 TTG             |                    | U A        | 2048                                                                                                   | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 3543                                                               | COMP+CAN  | 3/8               | 10.0 TTG            |                    | U A        | 4904                                                                                                   | COMP+CAN  | 3/4               | 19.0 TTG         |                    | U A        |
| 3544                                                               | COMP+CAN  | 1/2               | 12.0 TTG            |                    | U A        | 4905                                                                                                   | COMP+CAN  | (S)               | 6 LTG (b)(A)     | (.030)             | U A        |
| 3547                                                               | COMP+CAN  | 1/8               | 3.0 TPG (s)         |                    | U A        | 4906                                                                                                   | COMP+CAN  | (H)               | 8-16+ LTG (b)(A) | (.030)             | U A        |
| 3548                                                               | COMP+CAN  | 5/32              | 4.0 TPG (d)         |                    | U A        | <b>Prelco Inc. ; Saint-Jacques, NB</b>                                                                 |           |                   |                  |                    |            |
| 3549                                                               | COMP+CAN  | 3/16              | 5.0 TPG (m)         |                    | U A        | 4911                                                                                                   | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        |
| 3711                                                               | COMP+CAN  | 1/4               | 6.0 TPG (m)         |                    | U A        | 4912                                                                                                   | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| <b>PG Building Glass Processing ; Cape Town, South Africa</b>      |           |                   |                     |                    |            | 4913                                                                                                   | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 4887                                                               | COMPOSITE | 5/32              | 4.0 TTG             |                    | U A        | 4914                                                                                                   | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| <b>PGT Industries ; Nokomis, FL</b>                                |           |                   |                     |                    |            | 4915                                                                                                   | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        |
| 2389                                                               | COMPOSITE | 1/8               | 3.0 TTG             |                    | U A        | 4916                                                                                                   | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 2390                                                               | COMPOSITE | 3/16              | 5.0 TTG             |                    | U A        | 4917                                                                                                   | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 2391                                                               | COMPOSITE | 1/4               | 6.0 TTG             |                    | U A        | <b>PRL Glass Systems ; City of Industry, CA</b>                                                        |           |                   |                  |                    |            |
| 3880                                                               | COMPOSITE | 1/8               | 3.0 TPG (s)         |                    | U A        | 5605                                                                                                   | COMPOSITE | (H)               | 12 LTG (b)(A)    | (.030)             | U A        |
| 3881                                                               | COMPOSITE | 3/16              | 5.0 TPG (s)         |                    | U A        | <b>Productos De Valor Agregado en Cristal S.A. de C.V. ; San Juan Ixhuatepec, Tlalnepantla, Mexico</b> |           |                   |                  |                    |            |
| 3482                                                               | COMPOSITE | (H)               | 8-12 LTG (ip)(A)    | (.090)             | U A        | 4639                                                                                                   | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 2426                                                               | COMPOSITE | (H)               | 8-12 LTG (b)(A)     | (.060)             | U A        | 4645                                                                                                   | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 4801                                                               | COMPOSITE | (H)               | 8-10 LPG (s)(b)(A)  | (.060)             | U A        | 4788                                                                                                   | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        |
| 4812                                                               | COMPOSITE | (H)               | 8-10 LPG (s)(ip)(A) | (.090)             | U A        | 4640                                                                                                   | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| <b>Phoenicia Flat Glass Industries ; Nazaret, Ilit Israel</b>      |           |                   |                     |                    |            | 4641                                                                                                   | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| 5786                                                               | COMPOSITE | (S)               | 6 LTG (b)(A)        | (.015)             | U B        | 4642                                                                                                   | COMPOSITE | 3/4               | 19.0 TTG         |                    | U A        |
| 5290                                                               | COMPOSITE | (S)               | 6 LTG (b)(A)        | (.030)             | U A        | <b>Produits Verrier International Inc. ; Montreal, Quebec</b>                                          |           |                   |                  |                    |            |
| 5629                                                               | COMPOSITE | (H)               | 8 LTG (b)(A)        | (.030)             | U A        | 5498                                                                                                   | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        |
| <b>PPG Inds. Inc. ; Barrie, ON</b>                                 |           |                   |                     |                    |            | 5499                                                                                                   | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 5207                                                               | COMP+CAN  | 1/8               | 3.0 TTG             |                    | U A        | 5500                                                                                                   | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 5204                                                               | COMP+CAN  | 5/32              | 4.0 TTG             |                    | U A        | 5501                                                                                                   | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 5205                                                               | COMP+CAN  | 3/16              | 5.0 TTG             |                    | U A        | 5502                                                                                                   | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 5206                                                               | COMP+CAN  | 1/4               | 6.0 TTG             |                    | U A        | 5503                                                                                                   | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| <b>PPG Inds. Inc. ; Carlisle, PA</b>                               |           |                   |                     |                    |            | 5504                                                                                                   | COMP+CAN  | 1/8               | 3.0 TPG (s)      |                    | U A        |
| 250                                                                | COMP+CAN  | 1/8               | 3.0 TTG             |                    | U A        | 5505                                                                                                   | COMP+CAN  | 3/16              | 5.0 TPG (s)      |                    | U A        |
| 675                                                                | COMP+CAN  | 5/32              | 4.0 TTG             |                    | U A        | <b>PT Abebersa Pratama ; Bekasi, Indonesia</b>                                                         |           |                   |                  |                    |            |
| 249                                                                | COMP+CAN  | 3/16              | 5.0 TTG             |                    | U A        | 3905                                                                                                   | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        |
| 382                                                                | COMP+CAN  | 1/4               | 6.0 TTG             |                    | U A        | 3906                                                                                                   | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| <b>PPG Inds., Inc. ; Wichita Falls, TX</b>                         |           |                   |                     |                    |            | <b>Pulp Studio Inc. ; Gardena, CA</b>                                                                  |           |                   |                  |                    |            |
| 1110                                                               | COMPOSITE | 1/8               | 3.0 TTG             |                    | U A        | 4711                                                                                                   | COMPOSITE | (H)               | 8-16+ LTG (b)(A) | (.030)             | U A        |
| 1111                                                               | COMPOSITE | 5/32              | 4.0 TTG             |                    | U A        | <b>Qingdao Apis Glass Industries Co. Ltd. ; Qingdao, Shandong China</b>                                |           |                   |                  |                    |            |
| 1112                                                               | COMPOSITE | 3/16              | 5.0 TTG             |                    | U A        | 5529                                                                                                   | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 1113                                                               | COMPOSITE | 1/4               | 6.0 TTG             |                    | U A        | 5530                                                                                                   | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 3577                                                               | COMPOSITE | 5/16              | 8.0 TTG             |                    | U A        | 5531                                                                                                   | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| 3578                                                               | COMPOSITE | 3/8               | 10.0 TTG            |                    | U A        | <b>Qingdao Jinjing Co., Ltd. ; Qingdao City, Shandong China</b>                                        |           |                   |                  |                    |            |
|                                                                    |           |                   |                     |                    |            | 5613                                                                                                   | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |
|                                                                    |           |                   |                     |                    |            | 5617                                                                                                   | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        |
|                                                                    |           |                   |                     |                    |            | <b>Qingdao Laurel Enterprise Co., Ltd. ; Qingdao City, China</b>                                       |           |                   |                  |                    |            |
|                                                                    |           |                   |                     |                    |            | 5689                                                                                                   | COMPOSITE | (S)               | 6 LTG (b)(A)     | (.015)             | U A        |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                                                        | TEST STD  | INCHES (MM)       | TYPE              | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                                       | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS |
|----------------------------------------------------------------------------------------------|-----------|-------------------|-------------------|--------------------|------------|-----------------------------------------------------------------------------|-----------|-------------------|------------------|--------------------|------------|
|                                                                                              |           | (THICKNESS CLASS) |                   |                    |            |                                                                             |           | (THICKNESS CLASS) |                  |                    |            |
| <b>Qinhuangdao Ampac Building Products Co., Ltd. ; Qinhuangdao Hebei, China</b>              |           |                   |                   |                    |            | <b>Reem Emirates Aluminum &amp; Glass ; Abu Dhabi, United Arab Emirates</b> |           |                   |                  |                    |            |
| 5899                                                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 4675                                                                        | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 5900                                                                                         | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        | 4676                                                                        | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        |
| 5901                                                                                         | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 4677                                                                        | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 5902                                                                                         | COMPOSITE | 5/32              | 4.0 TPG (s)       |                    | U A        | <b>RF Supply, Inc. ; Bradenton, FL</b>                                      |           |                   |                  |                    |            |
| 5903                                                                                         | COMPOSITE | 3/16              | 5.0 TPG (s)       |                    | U A        | 5859                                                                        | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |
| <b>Qinhuangdao Dawei Glass Products Co. Ltd. ; Qinhuangdao, Hebei, China</b>                 |           |                   |                   |                    |            | 5860                                                                        | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 5787                                                                                         | ANSI ONLY | 1/8               | 3.0 TTG           |                    | U A        | 4225                                                                        | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| <b>Qinhuangdao Detai Tempered Glass Co., Ltd. ; Qinhuangdao, Hebei, China</b>                |           |                   |                   |                    |            | 4226                                                                        | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 4156                                                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 4227                                                                        | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| <b>Qinhuangdao Jingxin Glass Co., Ltd. ; Qinhuangdao City, Hebei Province</b>                |           |                   |                   |                    |            | <b>Rizhao Huaye Glass Co., Ltd. ; Rizhao, Shandong</b>                      |           |                   |                  |                    |            |
| 5280                                                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 5566                                                                        | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| <b>Qinhuangdao Kunping Safety Glass Co. Ltd. ; Qinhuangdao, Hebei, China</b>                 |           |                   |                   |                    |            | 5568                                                                        | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 3730                                                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 5569                                                                        | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        |
| <b>Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd ; Qinhuangdao, Hebei, China</b> |           |                   |                   |                    |            | 5570                                                                        | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 5129                                                                                         | COMP+CAN  | *                 | 12.0 TTG (3)      |                    | U A        | 5571                                                                        | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 5130                                                                                         | COMP+CAN  | *                 | 16.0 TTG (3)      |                    | U A        | 5572                                                                        | COMP+CAN  | 5/8               | 15.0 TTG         |                    | U A        |
| <b>Qinhuangdao Qicaishi ; Qinhuangdao, Hebei, China</b>                                      |           |                   |                   |                    |            | 5573                                                                        | COMP+CAN  | 3/4               | 19.0 TTG         |                    | U A        |
| 5141                                                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 5580                                                                        | COMP+CAN  | (S)               | 6 LTG (b)(A)     | (.015)             | U B        |
| <b>QinHuangDao Tianrui Tempered Technology Glass Co. ; Qinhuangdao, Hebei, China</b>         |           |                   |                   |                    |            | 5581                                                                        | COMP+CAN  | (H)               | 8-16 LTG (b)(A)  | (.015)             | U B        |
| 3690                                                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | <b>Robover Inc. ; Quebec City, QC</b>                                       |           |                   |                  |                    |            |
| <b>Quaker Window Products, Inc. ; Freeburg, MO</b>                                           |           |                   |                   |                    |            | 5199                                                                        | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        |
| 2985                                                                                         | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        | 5200                                                                        | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 5297                                                                                         | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        | 5201                                                                        | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 2986                                                                                         | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        | 5202                                                                        | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 3485                                                                                         | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        | 5763                                                                        | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 2968                                                                                         | COMP+CAN  | 1/8               | 3.0 TPG (m)       |                    | U A        | 5764                                                                        | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 2969                                                                                         | COMP+CAN  | 5/32              | 4.0 TPG (IN)(m)   |                    | U A        | 5727                                                                        | COMP+CAN  | 3/16              | 5.0 TPG (m)      |                    | U A        |
| 3486                                                                                         | COMP+CAN  | 3/16              | 5.0 TPG (m)       |                    | U A        | <b>SAAND London ; London, ON Canada</b>                                     |           |                   |                  |                    |            |
| 2970                                                                                         | COMP+CAN  | 1/4               | 6.0 TPG (IN)(m)   |                    | U A        | 3978                                                                        | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        |
| <b>Quality Glass &amp; Mirror, Inc. ; Mount Prospect, IL</b>                                 |           |                   |                   |                    |            | 4278                                                                        | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 2981                                                                                         | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 3979                                                                        | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 2982                                                                                         | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 3980                                                                        | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 2983                                                                                         | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | 3981                                                                        | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 2984                                                                                         | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        | <b>SAAND Ottawa ; Stittsville, ON</b>                                       |           |                   |                  |                    |            |
| 3805                                                                                         | COMPOSITE | 3/4               | 19.0 TTG          |                    | U A        | 4949                                                                        | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        |
| <b>Quest Window Systems ; Mississauga, ON</b>                                                |           |                   |                   |                    |            | 4950                                                                        | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 5719                                                                                         | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        | 4951                                                                        | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| <b>Ready Glass &amp; Mirror, Inc. ; Hialeah, FL</b>                                          |           |                   |                   |                    |            | 4952                                                                        | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 3745                                                                                         | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 4953                                                                        | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 3746                                                                                         | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 4954                                                                        | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 3747                                                                                         | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | <b>SAAND Rexdale ; Rexdale, ON</b>                                          |           |                   |                  |                    |            |
| 3748                                                                                         | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        | 4995                                                                        | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        |
| 5634                                                                                         | COMPOSITE | (H)               | 8-16+ LTG (ip)(A) | (.035)             | U A        | 4996                                                                        | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
|                                                                                              |           |                   |                   |                    |            | 4997                                                                        | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
|                                                                                              |           |                   |                   |                    |            | 4998                                                                        | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
|                                                                                              |           |                   |                   |                    |            | 4999                                                                        | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
|                                                                                              |           |                   |                   |                    |            | 5000                                                                        | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
|                                                                                              |           |                   |                   |                    |            | 5008                                                                        | COMP+CAN  | 5/8               | 15.0 TTG (3)     |                    | U A        |
|                                                                                              |           |                   |                   |                    |            | 5003                                                                        | COMP+CAN  | 1/8               | 3.0 TPG (s)      |                    | U A        |
|                                                                                              |           |                   |                   |                    |            | 5005                                                                        | COMP+CAN  | 3/16              | 5.0 TPG (s)      |                    | U A        |
|                                                                                              |           |                   |                   |                    |            | 5001                                                                        | COMP+CAN  | (S)               | 6 LTG (b)(A)     | (.030)             | U A        |
|                                                                                              |           |                   |                   |                    |            | 5002                                                                        | COMP+CAN  | (H)               | 8-16+ LTG (b)(A) | (.030)             | U A        |

## Certified Products-Alphabetical By Plant

| SGCC#                                                               | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                             | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|---------------------------------------------------------------------|-----------|--------------------------------|-------------------|-----------------------|---------------|-------------------------------------------------------------------|-----------|--------------------------------|-------------------|-----------------------|---------------|
| <b>SAAND Toronto ; Toronto, ON Canada</b>                           |           |                                |                   |                       |               | <b>Shenzhen Kai Tai Glass Co., LTD ; Shenzhen City, Guangdong</b> |           |                                |                   |                       |               |
| 2481                                                                | COMP+CAN  | 1/8                            | 3.0 TTG           |                       | U A           | 5436                                                              | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 2482                                                                | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           | 5437                                                              | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           |
| 3023                                                                | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           | 5438                                                              | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 2484                                                                | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           | 5439                                                              | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 4356                                                                | COMP+CAN  | 5/16                           | 8.0 TTG           |                       | U A           | 5440                                                              | COMPOSITE | (H)                            | 10-16+ LTG (b)(A) | (.030)                | U A           |
| 4357                                                                | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           | <b>Shower Doors &amp; More Inc. ; Fort Lauderdale, FL</b>         |           |                                |                   |                       |               |
| 4358                                                                | COMP+CAN  | 1/2                            | 12.0 TTG          |                       | U A           | 5756                                                              | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| <b>SAGE Electrochromics Inc. ; Faribault, MN</b>                    |           |                                |                   |                       |               | 5757                                                              | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 5655                                                                | COMP+CAN  | (H)                            | 8-10 LTG (b)(A)   | (.060)                | U A           | 5758                                                              | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 5660                                                                | COMP+CAN  | (H)                            | 12 LTG (b)(A)     | (.030)                | U A           | 5759                                                              | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 5016                                                                | COMP+CAN  | (H)                            | 8-12 LSP (ip)(A)  | (.035)                | U A           | <b>SIGCO, Inc. ; Westbrook, ME</b>                                |           |                                |                   |                       |               |
| <b>Saint Gobain Mexico, S.A. de C.V. ; Cuautla, Morelos, Mexico</b> |           |                                |                   |                       |               | 2961                                                              | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 5905                                                                | COMPOSITE | (S)                            | 6 LTG (b)(A)      | (.015)                | U B           | 2962                                                              | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| 5907                                                                | COMPOSITE | (S)                            | 6 LTG (b)(A)      | (.030)                | U A           | 2963                                                              | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 5908                                                                | COMPOSITE | (H)                            | 8 LTG (b)(A)      | (.030)                | U A           | 2964                                                              | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 5906                                                                | COMPOSITE | (H)                            | 8 LTG (b)(A)      | (.015)                | U B           | 5213                                                              | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           |
| 5909                                                                | COMPOSITE | (H)                            | 10-12 LTG (b)(A)  | (.090)                | U A           | 2965                                                              | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| <b>Saint-Gobain SOVIS ; Thierry, France</b>                         |           |                                |                   |                       |               | 2966                                                              | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 2769                                                                | COMPOSITE | *                              | 3.0 TTG (4)       |                       | U A           | 4326                                                              | COMPOSITE | 5/8                            | 16.0 TTG          |                       | U A           |
| 1992                                                                | COMPOSITE | 5/32                           | 4.0 TBG           |                       | L A<br>47x34  | 4327                                                              | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |
| <b>Sanshiba ; Takaoka, Toyama</b>                                   |           |                                |                   |                       |               | 4543                                                              | COMPOSITE | 1/8                            | 3.0 TPG (m)       |                       | U A           |
| 5512                                                                | ANSI ONLY | (H)                            | 23+ LTG (ip)(A)   | (.060)x2              | U A           | 2967                                                              | COMPOSITE | 5/32                           | 4.0 TPG (s)       |                       | U A           |
| <b>SCHOTT Gemtron - Sweetwater ; Sweetwater, TN</b>                 |           |                                |                   |                       |               | 3028                                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)       |                       | U A           |
| 1334                                                                | COMP+CAN  | 1/8                            | 3.0 TTG           |                       | U A           | 4206                                                              | COMPOSITE | 3/8                            | 10.0 TPG (s)      |                       | U A           |
| 1332                                                                | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           | <b>Simonton Windows ; Ellenboro, WV</b>                           |           |                                |                   |                       |               |
| 1201                                                                | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           | 2887                                                              | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 1477                                                                | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           | 2888                                                              | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 1422                                                                | COMP+CAN  | 1/8                            | 3.0 TPG (s)       |                       | U A           | 5296                                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)       |                       | U A           |
| 1424                                                                | COMP+CAN  | 5/32                           | 4.0 TPG (s)       |                       | U A           | <b>Simonton Windows ; Paris, IL</b>                               |           |                                |                   |                       |               |
| <b>SCHOTT Gemtron (Canada) Corporation ; Midland, ON Canada</b>     |           |                                |                   |                       |               | 4979                                                              | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 3067                                                                | COMP+CAN  | 1/8                            | 3.0 TTG           |                       | U A           | 4978                                                              | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 3659                                                                | COMP+CAN  | 5/32                           | 4.0 TTG           |                       | U A           | 5295                                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)       |                       | U A           |
| 3636                                                                | COMP+CAN  | 3/16                           | 5.0 TTG           |                       | U A           | <b>Sky Land Tempering Glass Corp ; Long Island City, NY</b>       |           |                                |                   |                       |               |
| 3637                                                                | COMP+CAN  | 1/4                            | 6.0 TTG           |                       | U A           | 5467                                                              | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 6020                                                                | COMP+CAN  | 5/16                           | 8.0 TTG           |                       | U A           | 5468                                                              | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 6021                                                                | COMP+CAN  | 3/8                            | 10.0 TTG          |                       | U A           | 5469                                                              | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| <b>Shanghai SYP Building Glass ; Shanghai, China</b>                |           |                                |                   |                       |               | 5470                                                              | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 2779                                                                | COMPOSITE | (S)                            | 6 LTG (b)(A)      | (.030)                | U A           | <b>Solar Seal Connecticut ; Hamden, CT</b>                        |           |                                |                   |                       |               |
| 4353                                                                | COMPOSITE | (H)                            | 8 LTG (b)(A)      | (.030)                | U A           | 4523                                                              | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 4807                                                                | COMPOSITE | (H)                            | 8-16+ LTG (ip)(A) | (.035)                | U A           | <b>Solar Seal Massachusetts ; South Easton, MA</b>                |           |                                |                   |                       |               |
| 2780                                                                | COMPOSITE | (H)                            | 10-16+ LTG (b)(A) | (.015)                | U B           | 3001                                                              | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| <b>Shanghai SYP Engineering Glass ; Shanghai, China</b>             |           |                                |                   |                       |               | 1871                                                              | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 4067                                                                | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           | 1035                                                              | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 4068                                                                | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           | 1036                                                              | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 4069                                                                | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           | 1037                                                              | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 4070                                                                | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           | 5527                                                              | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |
| 4071                                                                | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           | 1939                                                              | COMPOSITE | 3/16                           | 5.0 TPG (s)       |                       | U A           |
| 4072                                                                | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |                                                                   |           |                                |                   |                       |               |
| 4073                                                                | COMPOSITE | *                              | 15.0 TTG (3)      |                       | U A           |                                                                   |           |                                |                   |                       |               |
| 4074                                                                | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |                                                                   |           |                                |                   |                       |               |



## Certified Products-Alphabetical By Plant

| SGCC#                                                                    | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE       | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                                   | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE        | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|--------------------------------------------------------------------------|-----------|--------------------------------|-----------------|-----------------------|---------------|-------------------------------------------------------------------------|-----------|--------------------------------|------------------|-----------------------|---------------|
| <b>Solar Seal Virginia ; Stafford, VA</b>                                |           |                                |                 |                       |               | <b>Tai Sheng (Dong Guan) Glass Co.,Ltd ; Dongguan, Guangdong, China</b> |           |                                |                  |                       |               |
| 5721                                                                     | COMPOSITE | 1/8                            | 3.0 TTG         |                       | U A           | 4870                                                                    | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           |
| 5722                                                                     | COMPOSITE | 5/32                           | 4.0 TTG         |                       | U A           | 5487                                                                    | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           |
| 5723                                                                     | COMPOSITE | 3/16                           | 5.0 TTG         |                       | U A           | 4872                                                                    | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           |
| 5724                                                                     | COMPOSITE | 1/4                            | 6.0 TTG         |                       | U A           | 4873                                                                    | COMP+CAN  | 5/16                           | 8.0 TTG          |                       | U A           |
| 5725                                                                     | COMPOSITE | 3/8                            | 10.0 TTG        |                       | U A           | 5486                                                                    | COMP+CAN  | 3/8                            | 10.0 TTG         |                       | U A           |
| 5726                                                                     | COMPOSITE | 1/2                            | 12.0 TTG        |                       | U A           | 5604                                                                    | COMP+CAN  | 1/2                            | 12.0 TTG         |                       | U A           |
| <b>Strong Tempering Glass Industry LLC ; Brooklyn, NY</b>                |           |                                |                 |                       |               | 5067                                                                    | COMP+CAN  | 5/32                           | 4.0 TPG (m)      |                       | U A           |
| 5939                                                                     | COMPOSITE | 3/16                           | 5.0 TTG         |                       | U A           | 5488                                                                    | COMP+CAN  | 3/16                           | 5.0 TPG (m)      |                       | U A           |
| 5940                                                                     | COMPOSITE | 1/4                            | 6.0 TTG         |                       | U A           | 5068                                                                    | COMP+CAN  | 1/4                            | 6.0 TPG (m)      |                       | U A           |
| 5942                                                                     | COMPOSITE | 3/8                            | 10.0 TTG        |                       | U A           | <b>Taiwan Glass Industry Corp. ; Taipei, Taiwan, China</b>              |           |                                |                  |                       |               |
| 5941                                                                     | COMPOSITE | 1/2                            | 12.0 TTG        |                       | U A           | 3886                                                                    | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           |
| <b>Sunglas Technics Co., Ltd. ; Foshan City, Guangdong</b>               |           |                                |                 |                       |               | 3887                                                                    | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           |
| 5676                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG         |                       | U A           | 3888                                                                    | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           |
| 5677                                                                     | COMP+CAN  | 5/16                           | 8.0 TTG         |                       | U A           | 3889                                                                    | COMP+CAN  | 5/16                           | 8.0 TTG          |                       | U A           |
| 5678                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG        |                       | U A           | 3890                                                                    | COMP+CAN  | 3/8                            | 10.0 TTG         |                       | U A           |
| 5679                                                                     | COMP+CAN  | 1/2                            | 12.0 TTG        |                       | U A           | 3891                                                                    | COMP+CAN  | 1/2                            | 12.0 TTG         |                       | U A           |
| <b>Swift Glass Co., Inc. ; Elmira Heights, NY</b>                        |           |                                |                 |                       |               | 5490                                                                    | COMP+CAN  | (S)                            | 6 LTG (b)(A)     | (.030)                | U A           |
| 1555                                                                     | COMPOSITE | 1/8                            | 3.0 TTG         |                       | U A           | 3893                                                                    | COMP+CAN  | (H)                            | 12 LTG (b)(A)    | (.030)                | U A           |
| 1556                                                                     | COMPOSITE | 3/16                           | 5.0 TTG         |                       | U A           | <b>Techni-Glass, Inc. ; Surgoinville, TN</b>                            |           |                                |                  |                       |               |
| 1557                                                                     | COMPOSITE | 1/4                            | 6.0 TTG         |                       | U A           | 2547                                                                    | COMP+CAN  | 1/8                            | 3.0 TTG          |                       | U A           |
| 1558                                                                     | COMPOSITE | 3/8                            | 10.0 TTG        |                       | U A           | 2548                                                                    | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           |
| 1559                                                                     | COMPOSITE | 1/2                            | 12.0 TTG        |                       | U A           | 2549                                                                    | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           |
| <b>Syracuse Glass Co., Inc. ; Syracuse, NY</b>                           |           |                                |                 |                       |               | 2975                                                                    | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           |
| 2654                                                                     | COMP+CAN  | 1/8                            | 3.0 TTG         |                       | U A           | 3062                                                                    | COMP+CAN  | 3/8                            | 10.0 TTG         |                       | U A           |
| 2957                                                                     | COMP+CAN  | 3/16                           | 5.0 TTG         |                       | U A           | 4509                                                                    | COMP+CAN  | 1/2                            | 12.0 TTG         |                       | U A           |
| 2656                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG         |                       | U A           | 4510                                                                    | COMP+CAN  | 5/8                            | 16.0 TTG         |                       | U A           |
| 2958                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG        |                       | U A           | 3061                                                                    | COMP+CAN  | 1/8                            | 3.0 TPG (m)      |                       | U A           |
| 2657                                                                     | COMP+CAN  | 1/2                            | 12.0 TTG        |                       | U A           | 5050                                                                    | COMP+CAN  | 5/32                           | 4.0 TPG (m)      |                       | U A           |
| <b>Tacoma Glass Mfg. Inc. ; Burlington, WA</b>                           |           |                                |                 |                       |               | 2550                                                                    | COMP+CAN  | 3/16                           | 5.0 TPG (m)      |                       | U A           |
| 5165                                                                     | COMPOSITE | 1/4                            | 6.0 TTG         |                       | U A           | 3060                                                                    | COMP+CAN  | 1/4                            | 6.0 TPG (m)      |                       | U A           |
| 5166                                                                     | COMPOSITE | 3/8                            | 10.0 TTG        |                       | U A           | <b>Tecnoglass S.A. ; Barranquilla, Columbia</b>                         |           |                                |                  |                       |               |
| 5167                                                                     | COMPOSITE | 1/2                            | 12.0 TTG        |                       | U A           | 2133                                                                    | COMP+CAN  | 1/8                            | 3.0 TTG          |                       | U A           |
| 5168                                                                     | COMPOSITE | 3/4                            | 19.0 TTG        |                       | U A           | 2287                                                                    | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           |
| <b>Tacoma Glass Mfg. Inc. ; Lakewood, WA</b>                             |           |                                |                 |                       |               | 1993                                                                    | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           |
| 4730                                                                     | COMPOSITE | 1/4                            | 6.0 TTG         |                       | U A           | 1994                                                                    | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           |
| 4731                                                                     | COMPOSITE | 3/8                            | 10.0 TTG        |                       | U A           | 2134                                                                    | COMP+CAN  | 5/16                           | 8.0 TTG          |                       | U A           |
| 4732                                                                     | COMPOSITE | 1/2                            | 12.0 TTG        |                       | U A           | 1995                                                                    | COMP+CAN  | 3/8                            | 10.0 TTG         |                       | U A           |
| 5112                                                                     | COMPOSITE | (S)                            | 6 LTG (b)(A)    | (.030)                | U A           | 2135                                                                    | COMP+CAN  | 1/2                            | 12.0 TTG         |                       | U A           |
| 4735                                                                     | COMPOSITE | (H)                            | 8-12 LTG (b)(A) | (.030)                | U A           | 2365                                                                    | COMP+CAN  | 5/8                            | 16.0 TTG         |                       | U A           |
| <b>Tai Shan City Da Heng Art Glass Ltd. ; Tai Shan, Guangdong, China</b> |           |                                |                 |                       |               | 2894                                                                    | COMP+CAN  | 3/4                            | 19.0 TTG         |                       | U A           |
| 3787                                                                     | COMPOSITE | 1/8                            | 3.0 TTG         |                       | U A           | 4003                                                                    | COMP+CAN  | (H)                            | 8-16+ LTG (b)(A) | (.030)                | U A           |
| 3788                                                                     | COMPOSITE | 5/32                           | 4.0 TTG         |                       | U A           | <b>Tempco Glass ; Flushing, NY</b>                                      |           |                                |                  |                       |               |
| 3789                                                                     | COMPOSITE | 3/16                           | 5.0 TTG         |                       | U A           | 5009                                                                    | COMPOSITE | 1/8                            | 3.0 TTG          |                       | U A           |
|                                                                          |           |                                |                 |                       |               | 5010                                                                    | COMPOSITE | 3/16                           | 5.0 TTG          |                       | U A           |
|                                                                          |           |                                |                 |                       |               | 5011                                                                    | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           |
|                                                                          |           |                                |                 |                       |               | 5012                                                                    | COMPOSITE | 3/8                            | 10.0 TTG         |                       | U A           |
|                                                                          |           |                                |                 |                       |               | 5013                                                                    | COMPOSITE | 1/2                            | 12.0 TTG         |                       | U A           |
|                                                                          |           |                                |                 |                       |               | <b>Templados Del Centro SA DE C.V. ; Irapuato, Guanajuato</b>           |           |                                |                  |                       |               |
|                                                                          |           |                                |                 |                       |               | 6018                                                                    | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           |
|                                                                          |           |                                |                 |                       |               | 6019                                                                    | COMPOSITE | (H)                            | 12 LTG (b)(A)    | (.030)                | U A           |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                                               | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE              | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                                      | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|-------------------------------------------------------------------------------------|-----------|--------------------------------|------|-------------------|-----------------------|---------------|----------------------------------------------------------------------------|-----------|--------------------------------|------|------------------|-----------------------|---------------|
| <b>Texas Tempered, a Trulite Glass and Aluminum Solutions Company ; Houston, TX</b> |           |                                |      |                   |                       |               | <b>Tianjin CSG Energy Conservation Glass Co., Ltd ; Tianjin, China</b>     |           |                                |      |                  |                       |               |
| 4847                                                                                | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 4021                                                                       | COMPOSITE | 5/32                           |      | 4.0 TTG          |                       | U A           |
| 4848                                                                                | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 4022                                                                       | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           |
| 4850                                                                                | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 4023                                                                       | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           |
| 4851                                                                                | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 4024                                                                       | COMPOSITE | 5/16                           |      | 8.0 TTG          |                       | U A           |
| 5365                                                                                | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           | 4025                                                                       | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           |
| <b>TG Changjiang Glass Co., Ltd ; Kunshan City, Jiangsu, China</b>                  |           |                                |      |                   |                       |               | 4026                                                                       | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           |
| 5177                                                                                | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           | 4027                                                                       | COMPOSITE | *                              |      | 15.0 TTG (3)     |                       | U A           |
| 5178                                                                                | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 4028                                                                       | COMPOSITE | 3/4                            |      | 19.0 TTG         |                       | U A           |
| 5179                                                                                | COMP+CAN  | 5/16                           |      | 8.0 TTG           |                       | U A           | 4030                                                                       | COMPOSITE | (H)                            |      | 8 LTG (b)(A)     | (.030)                | U A           |
| 5176                                                                                | COMP+CAN  | (H)                            |      | 12-16+ LTG (b)(A) | (.015)                | U B           | 4106                                                                       | COMPOSITE | (H)                            |      | 10 LTG (b)(A)    | (.045)                | U A           |
| <b>The Original Frameless Shower Door ; Coral Springs, FL</b>                       |           |                                |      |                   |                       |               | 4107                                                                       | COMPOSITE | (H)                            |      | 12 LTG (b)(A)    | (.060)                | U A           |
| 4661                                                                                | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 4108                                                                       | COMPOSITE | (H)                            |      | 16+ LTG (b)(A)   | (.090)                | U A           |
| 4662                                                                                | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | <b>TianJin Dong Sung Home Building Materials Co. Ltd. ; Tianjin, China</b> |           |                                |      |                  |                       |               |
| 4663                                                                                | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 2889                                                                       | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           |
| <b>Thermal Seal Insulating Glass ; Uxbridge, MA</b>                                 |           |                                |      |                   |                       |               | 4035                                                                       | COMPOSITE | 5/32                           |      | 4.0 TTG          |                       | U A           |
| 5731                                                                                | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 2890                                                                       | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           |
| 5732                                                                                | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           | 3460                                                                       | COMPOSITE | 5/32                           |      | 4.0 TPG (d)      |                       | U A           |
| 5733                                                                                | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 3431                                                                       | COMPOSITE | 3/16                           |      | 5.0 TPG (m)      |                       | U A           |
| 5734                                                                                | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | <b>Tianjin Northglass Industrial Technical Co., Ltd ; Tianjin, China</b>   |           |                                |      |                  |                       |               |
| 5735                                                                                | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 5220                                                                       | COMPOSITE | 5/16                           |      | 8.0 TTG          |                       | U A           |
| 5736                                                                                | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 5221                                                                       | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           |
| 5730                                                                                | COMPOSITE | 1/8                            |      | 3.0 TPG (s)       |                       | U A           | 5223                                                                       | COMPOSITE | (H)                            |      | 18+ LTG (ip)(A)  | (.060)                | U A           |
| <b>Thermo BSL ; Riviere-du-loup, QC</b>                                             |           |                                |      |                   |                       |               | <b>Tianjin SYP Engineering Glass Co., Ltd. ; Tianjin, China</b>            |           |                                |      |                  |                       |               |
| 4290                                                                                | COMP+CAN  | 1/8                            |      | 3.0 TTG           |                       | U A           | 4075                                                                       | COMP+CAN  | 3/16                           |      | 5.0 TTG          |                       | U A           |
| 4291                                                                                | COMP+CAN  | 5/32                           |      | 4.0 TTG           |                       | U A           | 4076                                                                       | COMP+CAN  | 1/4                            |      | 6.0 TTG          |                       | U A           |
| 4292                                                                                | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           | 4077                                                                       | COMP+CAN  | 5/16                           |      | 8.0 TTG          |                       | U A           |
| 4293                                                                                | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 4078                                                                       | COMP+CAN  | 3/8                            |      | 10.0 TTG         |                       | U A           |
| 5672                                                                                | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           | 4079                                                                       | COMP+CAN  | *                              |      | 12.0 TTG (3)     |                       | U A           |
| 5673                                                                                | COMP+CAN  | (H)                            |      | 8 LTG (b)(A)      | (.030)                | U A           | 4080                                                                       | COMP+CAN  | *                              |      | 15.0 TTG (3)     |                       | U A           |
| 5674                                                                                | COMP+CAN  | (H)                            |      | 10 LTG (ip)(A)    | (.090)                | U A           | 4081                                                                       | COMP+CAN  | 3/4                            |      | 19.0 TTG         |                       | U A           |
| <b>Thermoseal Industries, LLC ; Gloucester City, NJ</b>                             |           |                                |      |                   |                       |               | 4084                                                                       | COMP+CAN  | (H)                            |      | 8-16+ LTG (b)(A) | (.030)                | U A           |
| 4468                                                                                | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | <b>Tri-Star Glass, Inc. ; Grand Prairie, TX</b>                            |           |                                |      |                  |                       |               |
| 4470                                                                                | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 5109                                                                       | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           |
| 4471                                                                                | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | <b>Tri-Star Glass, Inc. ; Houston, Texas</b>                               |           |                                |      |                  |                       |               |
| <b>Thompson I.G. LLC. ; Fenton, MI</b>                                              |           |                                |      |                   |                       |               | 5762                                                                       | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           |
| 5303                                                                                | COMP+CAN  | 1/8                            |      | 3.0 TTG           |                       | U A           | <b>Tri-Star Glass, Inc. ; Tulsa, OK</b>                                    |           |                                |      |                  |                       |               |
| 5304                                                                                | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           | 4004                                                                       | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           |
| 5305                                                                                | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 4005                                                                       | COMPOSITE | 5/32                           |      | 4.0 TTG          |                       | U A           |
| 5298                                                                                | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           | 4006                                                                       | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           |
| 5299                                                                                | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           | 4007                                                                       | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           |
| 5300                                                                                | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           | 4008                                                                       | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           |
| 5302                                                                                | COMP+CAN  | (H)                            |      | 8 LTG (b)(A)      | (.060)                | U A           | 4009                                                                       | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           |
| 5301                                                                                | COMP+CAN  | (H)                            |      | 10-12 LTG (b)(A)  | (.030)                | U A           | 4010                                                                       | COMPOSITE | 5/32                           |      | 4.0 TPG (s)      |                       | U A           |
|                                                                                     |           |                                |      |                   |                       |               | 4011                                                                       | COMPOSITE | 3/16                           |      | 5.0 TPG (s)      |                       | U A           |
|                                                                                     |           |                                |      |                   |                       |               | 5441                                                                       | COMPOSITE | (S)                            |      | 6 LTG (b)(A)     | (.030)                | U A           |
|                                                                                     |           |                                |      |                   |                       |               | 4411                                                                       | COMPOSITE | (H)                            |      | 10-12 LTG (b)(A) | (.030)                | U A           |
|                                                                                     |           |                                |      |                   |                       |               | <b>Triton Glass LLC ; Albemarle, NC</b>                                    |           |                                |      |                  |                       |               |
|                                                                                     |           |                                |      |                   |                       |               | 5690                                                                       | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           |
|                                                                                     |           |                                |      |                   |                       |               | 5691                                                                       | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           |
|                                                                                     |           |                                |      |                   |                       |               | 5692                                                                       | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           |
|                                                                                     |           |                                |      |                   |                       |               | 5693                                                                       | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           |
|                                                                                     |           |                                |      |                   |                       |               | 5694                                                                       | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                      | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                              | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE               | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|------------------------------------------------------------|-----------|--------------------------------|------|--------------|-----------------------|---------------|--------------------------------------------------------------------|-----------|--------------------------------|------|--------------------|-----------------------|---------------|
| <b>Triview Glass Industries ; City of Industry, CA</b>     |           |                                |      |              |                       |               | <b>Trulite Glass and Aluminum Solutions ; City of Industry, CA</b> |           |                                |      |                    |                       |               |
| 5039                                                       | COMP+CAN  | 5/32                           |      | 4.0 TTG      |                       | U A           | 4182                                                               | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           |
| 5040                                                       | COMP+CAN  | 3/16                           |      | 5.0 TTG      |                       | U A           | 4183                                                               | COMPOSITE | 5/32                           |      | 4.0 TTG            |                       | U A           |
| 5041                                                       | COMP+CAN  | 1/4                            |      | 6.0 TTG      |                       | U A           | 4184                                                               | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           |
| 5042                                                       | COMP+CAN  | 5/16                           |      | 8.0 TTG      |                       | U A           | 4185                                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 5043                                                       | COMP+CAN  | 3/8                            |      | 10.0 TTG     |                       | U A           | 4186                                                               | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
| 5044                                                       | COMP+CAN  | 1/2                            |      | 12.0 TTG     |                       | U A           | 4187                                                               | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
| 5045                                                       | COMP+CAN  | 5/8                            |      | 16.0 TTG     |                       | U A           | 4522                                                               | COMPOSITE | 5/8                            |      | 16.0 TTG           |                       | U A           |
| 5046                                                       | COMP+CAN  | 3/4                            |      | 19.0 TTG     |                       | U A           | 4371                                                               | COMPOSITE | 3/4                            |      | 19.0 TTG           |                       | U A           |
| 5047                                                       | COMP+CAN  | (S)                            |      | 6 LTG (b)(A) | (.030)                | U A           | 4188                                                               | COMPOSITE | 1/8                            |      | 3.0 TPG (s)        |                       | U A           |
| 5048                                                       | COMP+CAN  | (H)                            |      | 8 LTG (b)(A) | (.030)                | U A           | 4372                                                               | COMPOSITE | 5/32                           |      | 4.0 TPG (s)        |                       | U A           |
| <b>Troy Systems LLC ; Manassas, VA</b>                     |           |                                |      |              |                       |               | 4373                                                               | COMPOSITE | 3/16                           |      | 5.0 TPG (s)        |                       | U A           |
| 4918                                                       | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           | 4189                                                               | COMPOSITE | 1/4                            |      | 6.0 TPG (s)        |                       | U A           |
| 4061                                                       | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           | 4374                                                               | COMPOSITE | 3/8                            |      | 10.0 TPG (s)       |                       | U A           |
| 4062                                                       | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           | 4233                                                               | COMPOSITE | (S)                            |      | 6 LTG (b)(A)       | (.030)                | U A           |
| 4063                                                       | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           | 6010                                                               | COMPOSITE | (H)                            |      | 8-16+ LTG (b)(A)   | (.030)                | U A           |
| 5123                                                       | COMPOSITE | 3/8                            |      | 10.0 TPG (s) |                       | U A           | 6011                                                               | COMPOSITE | (H)                            |      | 10-16+ LTG (ip)(A) | (.060)                | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Atlanta, GA</b>  |           |                                |      |              |                       |               | <b>Trulite Glass and Aluminum Solutions ; Columbus, OH</b>         |           |                                |      |                    |                       |               |
| 2959                                                       | COMPOSITE | 1/8                            |      | 3.0 TTG      |                       | U A           | 4745                                                               | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           |
| 862                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           | 4746                                                               | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           |
| 863                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           | 4747                                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 865                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           | 4748                                                               | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
| 866                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           | 3407                                                               | COMPOSITE | (S)                            |      | 6 LTG (b)(A)       | (.030)                | U A           |
| 4089                                                       | COMPOSITE | 5/8                            |      | 16.0 TTG     |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; Fort Worth, TX</b>       |           |                                |      |                    |                       |               |
| 2960                                                       | COMPOSITE | 3/4                            |      | 19.0 TTG     |                       | U A           | 5396                                                               | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           |
| 4090                                                       | COMPOSITE | 1/8                            |      | 3.0 TPG (s)  |                       | U A           | 5397                                                               | COMPOSITE | 5/32                           |      | 4.0 TTG            |                       | U A           |
| 3554                                                       | COMPOSITE | 3/16                           |      | 5.0 TPG (s)  |                       | U A           | 5398                                                               | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           |
| 4555                                                       | COMPOSITE | 1/4                            |      | 6.0 TPG (m)  |                       | U A           | 5399                                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 4554                                                       | COMPOSITE | 3/8                            |      | 10.0 TPG (s) |                       | U A           | 5400                                                               | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
| 3536                                                       | COMPOSITE | (S)                            |      | 6 LTG (b)(A) | (.030)                | U A           | 5401                                                               | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Aurora, CO</b>   |           |                                |      |              |                       |               | 5406                                                               | COMPOSITE | 3/4                            |      | 19.0 TTG           |                       | U A           |
| 5341                                                       | COMPOSITE | 1/8                            |      | 3.0 TTG      |                       | U A           | 5784                                                               | COMPOSITE | 1/8                            |      | 3.0 TPG (m)        |                       | U A           |
| 5348                                                       | COMPOSITE | 5/32                           |      | 4.0 TTG      |                       | U A           | 5403                                                               | COMPOSITE | 5/32                           |      | 4.0 TPG (s)        |                       | U A           |
| 5879                                                       | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           | 5404                                                               | COMPOSITE | 3/16                           |      | 5.0 TPG (m)        |                       | U A           |
| 5343                                                       | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           | 5405                                                               | COMPOSITE | 3/8                            |      | 10.0 TPG (m)       |                       | U A           |
| 5344                                                       | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           | 3603                                                               | COMPOSITE | (S)                            |      | 6 LTG (b)(A)       | (.030)                | U A           |
| 5345                                                       | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           | 5728                                                               | COMPOSITE | (H)                            |      | 8-16+ LTG (ip)(A)  | (.035)                | U A           |
| 5346                                                       | COMPOSITE | 3/4                            |      | 19.0 TTG     |                       | U A           | 5783                                                               | COMPOSITE | (H)                            |      | 8-16+ LTG (b)(A)   | (.030)                | U A           |
| 5347                                                       | COMPOSITE | 1/8                            |      | 3.0 TPG (s)  |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; Fremont, CA</b>          |           |                                |      |                    |                       |               |
| 5349                                                       | COMPOSITE | 3/16                           |      | 5.0 TPG (s)  |                       | U A           | 5792                                                               | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           |
| 5350                                                       | COMPOSITE | 3/8                            |      | 10.0 TPG (s) |                       | U A           | 5793                                                               | COMPOSITE | 5/32                           |      | 4.0 TTG            |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Cheswick, PA</b> |           |                                |      |              |                       |               | 5794                                                               | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           |
| 1784                                                       | COMPOSITE | 1/8                            |      | 3.0 TTG      |                       | U A           | 5795                                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           |
| 1785                                                       | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           | 5796                                                               | COMPOSITE | 5/16                           |      | 8.0 TTG            |                       | U A           |
| 1786                                                       | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           | 5797                                                               | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           |
| 3495                                                       | COMPOSITE | 5/16                           |      | 8.0 TTG      |                       | U A           | 5798                                                               | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           |
| 1787                                                       | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           | 5800                                                               | COMPOSITE | 3/4                            |      | 19.0 TTG           |                       | U A           |
| 1788                                                       | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           | 5801                                                               | COMPOSITE | 1/8                            |      | 3.0 TPG (d)        |                       | U A           |
| 4134                                                       | COMPOSITE | 5/8                            |      | 16.0 TTG     |                       | U A           | 5802                                                               | COMPOSITE | 5/32                           |      | 4.0 TPG (m)        |                       | U A           |
| 4135                                                       | COMPOSITE | 3/4                            |      | 19.0 TTG     |                       | U A           | 5803                                                               | COMPOSITE | 3/16                           |      | 5.0 TPG (d)        |                       | U A           |
| 4452                                                       | COMPOSITE | 1/8                            |      | 3.0 TPG (s)  |                       | U A           | 5804                                                               | COMPOSITE | 1/4                            |      | 6.0 TPG (m)        |                       | U A           |
| 1790                                                       | COMPOSITE | 3/16                           |      | 5.0 TPG (s)  |                       | U A           | 5805                                                               | COMPOSITE | 3/8                            |      | 10.0 TPG (S)       |                       | U A           |
| 4453                                                       | COMPOSITE | 3/8                            |      | 10.0 TPG (s) |                       | U A           |                                                                    |           |                                |      |                    |                       |               |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                          | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE              | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                        | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE              | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|----------------------------------------------------------------|-----------|--------------------------------|------|-------------------|-----------------------|---------------|--------------------------------------------------------------|-----------|--------------------------------|------|-------------------|-----------------------|---------------|
| <b>Trulite Glass and Aluminum Solutions ; Fresno, CA</b>       |           |                                |      |                   |                       |               | <b>Trulite Glass and Aluminum Solutions ; Las Vegas, NV</b>  |           |                                |      |                   |                       |               |
| 5820                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 4210                                                         | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           |
| 5821                                                           | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           | 4212                                                         | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 5822                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 4213                                                         | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 5823                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 4214                                                         | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 5824                                                           | COMPOSITE | 5/16                           |      | 8.0 TTG           |                       | U A           | 4215                                                         | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 5825                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 4216                                                         | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           |
| 5826                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 4217                                                         | COMPOSITE | 1/8                            |      | 3.0 TPG (s)       |                       | U A           |
| 5827                                                           | COMPOSITE | 5/8                            |      | 16.0 TTG          |                       | U A           | 4218                                                         | COMPOSITE | 5/32                           |      | 4.0 TPG (m)       |                       | U A           |
| 5828                                                           | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           | 4219                                                         | COMPOSITE | 3/16                           |      | 5.0 TPG (m)       |                       | U A           |
| 5829                                                           | COMPOSITE | 1/8                            |      | 3.0 TPG (d)       |                       | U A           | 4220                                                         | COMPOSITE | 1/4                            |      | 6.0 TPG (m)       |                       | U A           |
| 5985                                                           | COMPOSITE | 5/32                           |      | 4.0 TPG (m)       |                       | U A           | 4221                                                         | COMPOSITE | 3/8                            |      | 10.0 TPG (s)      |                       | U A           |
| 5830                                                           | COMPOSITE | 3/16                           |      | 5.0 TPG (d)       |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; New Berlin, WI</b> |           |                                |      |                   |                       |               |
| 5831                                                           | COMPOSITE | 1/4                            |      | 6.0 TPG (m)       |                       | U A           | 5876                                                         | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           |
| 5832                                                           | COMPOSITE | 3/8                            |      | 10.0 TPG (S)      |                       | U A           | 5317                                                         | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Grenada, MS</b>      |           |                                |      |                   |                       |               | 5318                                                         | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 2787                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 5877                                                         | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 2788                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 5320                                                         | COMPOSITE | 5/16                           |      | 8.0 TTG           |                       | U A           |
| 2789                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 5321                                                         | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 2840                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 5322                                                         | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 4743                                                           | COMPOSITE | (S)                            |      | 5-6 LTG (b)(A)    | (.015)                | U A           | 5896                                                         | COMPOSITE | 5/8                            |      | 16.0 TTG          |                       | U A           |
| 4744                                                           | COMPOSITE | (H)                            |      | 8-16+ LTG (b)(A)  | (.030)                | U A           | 5897                                                         | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           |
| 5898                                                           | COMPOSITE | (H)                            |      | 10-12 LTG (ip)(A) | (.035)                | U A           | 5325                                                         | COMPOSITE | 3/16                           |      | 5.0 TPG (s)       |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Houston, TX</b>      |           |                                |      |                   |                       |               | 5327                                                         | COMPOSITE | 3/8                            |      | 10.0 TPG (m)      |                       | U A           |
| 5432                                                           | COMP+CAN  | 1/8                            |      | 3.0 TTG           |                       | U A           | 3430                                                         | COMPOSITE | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           |
| 3925                                                           | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           | 5937                                                         | COMPOSITE | (H)                            |      | 8-16+ LTG (ip)(A) | (.060)                | U A           |
| 5483                                                           | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 5936                                                         | COMPOSITE | (H)                            |      | 8-12 LTG (b)(A)   | (.030)                | U A           |
| 3927                                                           | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; Orlando, FL</b>    |           |                                |      |                   |                       |               |
| 3928                                                           | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           | 5183                                                         | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           |
| 5477                                                           | COMP+CAN  | 5/8                            |      | 16.0 TTG          |                       | U A           | 5185                                                         | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 5478                                                           | COMP+CAN  | 3/4                            |      | 19.0 TTG          |                       | U A           | 5184                                                         | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 5433                                                           | COMP+CAN  | 1/8                            |      | 3.0 TPG (s)       |                       | U A           | 5186                                                         | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 5686                                                           | COMP+CAN  | 5/32                           |      | 4.0 TPG (s)       |                       | U A           | 5187                                                         | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 3931                                                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (s)       |                       | U A           | 5680                                                         | COMPOSITE | 5/8                            |      | 16.0 TTG          |                       | U A           |
| 5434                                                           | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           | 5188                                                         | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           |
| 4667                                                           | COMP+CAN  | (H)                            |      | 8-16+ LTG (b)(A)  | (.030)                | U A           | 5189                                                         | COMPOSITE | 1/8                            |      | 3.0 TPG (s)       |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Indianapolis, IN</b> |           |                                |      |                   |                       |               | 5190                                                         | COMPOSITE | 3/16                           |      | 5.0 TPG (m)       |                       | U A           |
| 4749                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 5191                                                         | COMPOSITE | 1/4                            |      | 6.0 TPG (m)       |                       | U A           |
| 4752                                                           | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           | 5192                                                         | COMPOSITE | 3/8                            |      | 10.0 TPG (s)      |                       | U A           |
| 4922                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 3461                                                         | COMPOSITE | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           |
| 4923                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 5484                                                         | COMPOSITE | (H)                            |      | 8-16+ LTG (b)(A)  | (.030)                | U A           |
| 4754                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 5485                                                         | COMPOSITE | (H)                            |      | 10-12 LTG (ip)(A) | (.035)                | U A           |
| 4753                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; Phoenix, AZ</b>    |           |                                |      |                   |                       |               |
| 4750                                                           | COMPOSITE | 3/16                           |      | 5.0 TPG (s)       |                       | U A           | 5700                                                         | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Knoxville, TN</b>    |           |                                |      |                   |                       |               | 5701                                                         | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           |
| 4209                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 5702                                                         | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 4827                                                           | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           | 5746                                                         | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 4152                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 5703                                                         | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 4153                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 5704                                                         | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 4158                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 5705                                                         | COMPOSITE | 1/8                            |      | 3.0 TPG (s)       |                       | U A           |
| 4159                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 5706                                                         | COMPOSITE | 3/16                           |      | 5.0 TPG (m)       |                       | U A           |
| 4207                                                           | COMPOSITE | 1/8                            |      | 3.0 TPG (m)       |                       | U A           | 5707                                                         | COMPOSITE | 1/4                            |      | 6.0 TPG (s)       |                       | U A           |
| 4981                                                           | COMPOSITE | 5/32                           |      | 4.0 TPG (d)       |                       | U A           | 5747                                                         | COMPOSITE | 3/8                            |      | 10.0 TPG (s)      |                       | U A           |
| 4160                                                           | COMPOSITE | 3/16                           |      | 5.0 TPG (d)       |                       | U A           |                                                              |           |                                |      |                   |                       |               |
| 4980                                                           | COMPOSITE | 1/4                            |      | 6.0 TPG (d)       |                       | U A           |                                                              |           |                                |      |                   |                       |               |
| 5134                                                           | COMPOSITE | 3/8                            |      | 10.0 TPG (m)      |                       | U A           |                                                              |           |                                |      |                   |                       |               |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                         | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                                   | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE           | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|---------------------------------------------------------------|-----------|--------------------------------|------|------------------|-----------------------|---------------|-------------------------------------------------------------------------|-----------|--------------------------------|------|----------------|-----------------------|---------------|
| <b>Trulite Glass and Aluminum Solutions ; Sacramento, CA</b>  |           |                                |      |                  |                       |               | <b>Trulite Glass and Aluminum Solutions - West ; Salt Lake City, UT</b> |           |                                |      |                |                       |               |
| 5807                                                          | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           | 5337                                                                    | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 5808                                                          | COMPOSITE | 5/32                           |      | 4.0 TTG          |                       | U A           | 5338                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 5809                                                          | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | 5339                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 5810                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 5340                                                                    | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 5811                                                          | COMPOSITE | 5/16                           |      | 8.0 TTG          |                       | U A           | <b>TVITEC ; Cubillo del Sil, Spain</b>                                  |           |                                |      |                |                       |               |
| 5812                                                          | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 5519                                                                    | COMPOSITE | (H)                            |      | 12 LTG (ip)(A) | (.070)                | U A           |
| 5813                                                          | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | <b>Tweddell's Inc. ; Santa Ana, CA</b>                                  |           |                                |      |                |                       |               |
| 5814                                                          | COMPOSITE | 3/4                            |      | 19.0 TTG         |                       | U A           | 5384                                                                    | COMP+CAN  | 1/8                            |      | 3.0 TTG        |                       | U A           |
| 5815                                                          | COMPOSITE | 1/8                            |      | 3.0 TPG (d)      |                       | U A           | 4993                                                                    | COMP+CAN  | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 5816                                                          | COMPOSITE | 3/16                           |      | 5.0 TPG (d)      |                       | U A           | 5385                                                                    | COMP+CAN  | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 5817                                                          | COMPOSITE | 1/4                            |      | 6.0 TPG (m)      |                       | U A           | 5386                                                                    | COMP+CAN  | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 5818                                                          | COMPOSITE | 3/8                            |      | 10.0 TPG (s)     |                       | U A           | <b>U.S. Glass Distributors Inc. ; Enfield, CT</b>                       |           |                                |      |                |                       |               |
| <b>Trulite Glass and Aluminum Solutions ; San Antonio, TX</b> |           |                                |      |                  |                       |               | 5921                                                                    | COMP+CAN  | 1/8                            |      | 3.0 TTG        |                       | U A           |
| 3645                                                          | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           | 5922                                                                    | COMP+CAN  | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 3646                                                          | COMPOSITE | 5/32                           |      | 4.0 TTG          |                       | U A           | 5923                                                                    | COMP+CAN  | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 3839                                                          | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | 5924                                                                    | COMP+CAN  | 5/16                           |      | 8.0 TTG        |                       | U A           |
| 3326                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 5925                                                                    | COMP+CAN  | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 3327                                                          | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 5926                                                                    | COMP+CAN  | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 4277                                                          | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | 5927                                                                    | COMP+CAN  | 5/8                            |      | 16.0 TTG       |                       | U A           |
| 3818                                                          | COMPOSITE | 1/8                            |      | 3.0 TPG (s)      |                       | U A           | 5928                                                                    | COMP+CAN  | 3/4                            |      | 19.0 TTG       |                       | U A           |
| 3647                                                          | COMPOSITE | 5/32                           |      | 4.0 TPG (m)      |                       | U A           | 5917                                                                    | COMP+CAN  | 5/32                           |      | 4.0 TPG (d)    |                       | U A           |
| 4342                                                          | COMPOSITE | 3/16                           |      | 5.0 TPG (m)      |                       | U A           | 5918                                                                    | COMP+CAN  | 3/16                           |      | 5.0 TPG (m)    |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Tulsa, OK</b>       |           |                                |      |                  |                       |               | 5919                                                                    | COMP+CAN  | 1/4                            |      | 6.0 TPG (s)    |                       | U A           |
| 5687                                                          | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           | 5920                                                                    | COMP+CAN  | 3/8                            |      | 10.0 TPG (s)   |                       | U A           |
| 5443                                                          | COMPOSITE | 5/32                           |      | 4.0 TTG          |                       | U A           | <b>United Plate Glass Co., Inc. ; Butler, PA</b>                        |           |                                |      |                |                       |               |
| 5444                                                          | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | 2467                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG        |                       | U A           |
| 5445                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 2468                                                                    | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 5446                                                          | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 2469                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 5447                                                          | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | 2470                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 5688                                                          | COMPOSITE | 1/8                            |      | 3.0 TPG (s)      |                       | U A           | 2471                                                                    | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 5448                                                          | COMPOSITE | 5/32                           |      | 4.0 TPG (d)      |                       | U A           | <b>United Plate Glass Company of Charlotte ; Lincolnton, NC</b>         |           |                                |      |                |                       |               |
| 5449                                                          | COMPOSITE | 3/16                           |      | 5.0 TPG (m)      |                       | U A           | 3948                                                                    | COMP+CAN  | 1/8                            |      | 3.0 TTG        |                       | U A           |
| 5450                                                          | COMPOSITE | 1/4                            |      | 6.0 TPG (m)      |                       | U A           | 4197                                                                    | COMPOSITE | 5/32                           |      | 4.0 TTG        |                       | U A           |
| 5451                                                          | COMPOSITE | 3/8                            |      | 10.0 TPG (s)     |                       | U A           | 3949                                                                    | COMP+CAN  | 3/16                           |      | 5.0 TTG        |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Vaughan, ON</b>     |           |                                |      |                  |                       |               | 3950                                                                    | COMP+CAN  | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 5507                                                          | COMP+CAN  | 5/32                           |      | 4.0 TTG          |                       | U A           | 3951                                                                    | COMP+CAN  | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 5508                                                          | COMP+CAN  | 3/16                           |      | 5.0 TTG          |                       | U A           | 3952                                                                    | COMP+CAN  | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 5509                                                          | COMP+CAN  | 1/4                            |      | 6.0 TTG          |                       | U A           | 3954                                                                    | COMP+CAN  | 1/8                            |      | 3.0 TPG (d)    |                       | U A           |
| 5510                                                          | COMP+CAN  | 5/16                           |      | 8.0 TTG          |                       | U A           | 4636                                                                    | COMPOSITE | 5/32                           |      | 4.0 TPG (d)    |                       | U A           |
| 5511                                                          | COMP+CAN  | 3/8                            |      | 10.0 TTG         |                       | U A           | 3955                                                                    | COMP+CAN  | 3/16                           |      | 5.0 TPG (d)    |                       | U A           |
| 5782                                                          | COMP+CAN  | 1/2                            |      | 12.0 TTG         |                       | U A           | <b>Unitex Glass Chengdu Co., Ltd ; Chendu, Sichuan, China</b>           |           |                                |      |                |                       |               |
| 5631                                                          | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)     | (.030)                | U A           | 5462                                                                    | ANSI ONLY | 1/8                            |      | 3.0 TTG        |                       | U A           |
| 5632                                                          | COMP+CAN  | (H)                            |      | 8-16+ LTG (b)(A) | (.030)                | U A           | 5463                                                                    | ANSI ONLY | 5/32                           |      | 4.0 TTG        |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Youngsville, NC</b> |           |                                |      |                  |                       |               | 5407                                                                    | ANSI ONLY | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 5272                                                          | COMPOSITE | 1/8                            |      | 3.0 TTG          |                       | U A           | 5408                                                                    | ANSI ONLY | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 5517                                                          | COMPOSITE | 5/32                           |      | 4.0 TTG          |                       | U A           | 5414                                                                    | ANSI ONLY | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 5273                                                          | COMPOSITE | 3/16                           |      | 5.0 TTG          |                       | U A           | <b>Upstate Glass Tempering Inc. ; Middletown, NY</b>                    |           |                                |      |                |                       |               |
| 5274                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG          |                       | U A           | 4926                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG        |                       | U A           |
| 5518                                                          | COMPOSITE | 5/16                           |      | 8.0 TTG          |                       | U A           | 5157                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 5275                                                          | COMPOSITE | 3/8                            |      | 10.0 TTG         |                       | U A           | 4927                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 5276                                                          | COMPOSITE | 1/2                            |      | 12.0 TTG         |                       | U A           | 5158                                                                    | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 5277                                                          | COMPOSITE | 3/4                            |      | 19.0 TTG         |                       | U A           |                                                                         |           |                                |      |                |                       |               |
| 5279                                                          | COMPOSITE | 3/16                           |      | 5.0 TPG (s)      |                       | U A           |                                                                         |           |                                |      |                |                       |               |
| 4437                                                          | COMPOSITE | (S)                            |      | 6 LTG (b)(A)     | (.030)                | U A           |                                                                         |           |                                |      |                |                       |               |
| 5516                                                          | COMPOSITE | (H)                            |      | 8-16+ LTG (b)(A) | (.030)                | U A           |                                                                         |           |                                |      |                |                       |               |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                                    | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE          | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                                   | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) TYPE         | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|--------------------------------------------------------------------------|-----------|--------------------------------|--------------------|-----------------------|---------------|-------------------------------------------------------------------------|-----------|--------------------------------|-------------------|-----------------------|---------------|
| <b>Valentini Glass &amp; Components srl ; Brescia, Italy</b>             |           |                                |                    |                       |               | <b>Virginia Glass Products Corp. ; Martinsville, VA</b>                 |           |                                |                   |                       |               |
| 2423                                                                     | COMPOSITE | 5/32                           | 4.0 TTG            |                       | U A           | 12                                                                      | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 4246                                                                     | COMPOSITE | 5/32                           | 4.0 TBG            |                       | U A           | 14                                                                      | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 2898                                                                     | COMPOSITE | 1/4                            | 6.0 TBG            |                       | U A           | 93                                                                      | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| <b>Vetreria F. Illi Paci ; Seregno MB Italy</b>                          |           |                                |                    |                       |               | 94                                                                      | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 5520                                                                     | COMPOSITE | (H)                            | 10 LTG (b)(A)      | (.030)                | U A           | 2182                                                                    | COMPOSITE | 5/8                            | 16.0 TTG          |                       | U A           |
| <b>Vidrio Bisel S.A. de C.V. ; Santa Catarina, Nuevo Leon, Mexico</b>    |           |                                |                    |                       |               | 95                                                                      | COMPOSITE | 3/4                            | 19.0 TTG          |                       | U A           |
| 4966                                                                     | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 5194                                                                    | COMPOSITE | (H)                            | 12 LTG (ip)(A)    | (.035)                | U A           |
| 4967                                                                     | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           | 5383                                                                    | COMPOSITE | (H)                            | 12 LTG (ev)(6)(A) | (.030)                | U A           |
| 4968                                                                     | COMPOSITE | (S)                            | 6 LTG (b)(A)       | (.030)                | U A           | <b>Vistamatic ; Coral Springs, FL</b>                                   |           |                                |                   |                       |               |
| 4969                                                                     | COMPOSITE | (S)                            | 6 LTG (b)(A)       | (.015)(C1)            | U B           | 6015                                                                    | COMP+CAN  | (H)                            | 12 LTG (ev)(A)    | (.030)                | U A           |
| <b>Vidrios Dellorto S.A. ; Santiago, Chile</b>                           |           |                                |                    |                       |               | <b>Vitemex ; Reynosa, Tamaulipas Mexico</b>                             |           |                                |                   |                       |               |
| 5966                                                                     | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 5393                                                                    | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 5967                                                                     | COMPOSITE | 5/16                           | 8.0 TTG            |                       | U A           | 5394                                                                    | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 5968                                                                     | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           | 5395                                                                    | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 5969                                                                     | COMPOSITE | 1/2                            | 12.0 TTG           |                       | U A           | <b>Vitra Vidrios Transformados SA de CV ; Cortes, Honduras</b>          |           |                                |                   |                       |               |
| 5970                                                                     | COMPOSITE | (H)                            | 8-10 LTG (b)(A)    | (.015)                | U A           | 5037                                                                    | COMPOSITE | 5/32                           | 4.0 TTG           |                       | U A           |
| 5971                                                                     | COMPOSITE | (H)                            | 12,16 LTG (b)(A)   | (.030)                | U A           | 4651                                                                    | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| <b>Vidrios el Castillo SC de RL de CV ; Escobedo, Nuevo Leon, Mexico</b> |           |                                |                    |                       |               | 4652                                                                    | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 5840                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG            |                       | U A           | 4653                                                                    | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           |
| 5781                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG           |                       | U A           | 4654                                                                    | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| <b>View Inc. ; Olive Branch, MS</b>                                      |           |                                |                    |                       |               | 4655                                                                    | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 4725                                                                     | COMPOSITE | 1/8                            | 3.0 TTG            |                       | U A           | <b>Viwinco, Inc. ; Morgantown, PA</b>                                   |           |                                |                   |                       |               |
| 4726                                                                     | COMPOSITE | 5/32                           | 4.0 TTG            |                       | U A           | 3074                                                                    | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| 4727                                                                     | COMPOSITE | 3/16                           | 5.0 TTG            |                       | U A           | 3405                                                                    | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 4728                                                                     | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 3408                                                                    | COMPOSITE | (H)                            | 8 LTG (b)(A)      | (.090)                | U A           |
| 5841                                                                     | COMPOSITE | (H)                            | 8-10 LTG (ip)(A)   | (.035)                | U A           | <b>W. A. Wilson Inc. ; Wheeling, WV</b>                                 |           |                                |                   |                       |               |
| 5834                                                                     | COMPOSITE | (H)                            | 8-10 LTG (b)(A)    | (.015)                | U A           | 4169                                                                    | COMPOSITE | 1/8                            | 3.0 TTG           |                       | U A           |
| <b>Viracon Inc. ; Owatonna, MN</b>                                       |           |                                |                    |                       |               | 4170                                                                    | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 4354                                                                     | COMP+CAN  | 5/32                           | 4.0 TTG            |                       | U A           | 4171                                                                    | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 1403                                                                     | COMP+CAN  | 3/16                           | 5.0 TTG            |                       | U A           | 4172                                                                    | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 1404                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG            |                       | U A           | 4173                                                                    | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| 3689                                                                     | COMP+CAN  | 5/16                           | 8.0 TTG            |                       | U A           | 5173                                                                    | COMPOSITE | 1/8                            | 3.0 TPG (d)       |                       | U A           |
| 1508                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG           |                       | U A           | 4175                                                                    | COMPOSITE | 3/16                           | 5.0 TPG (d)       |                       | U A           |
| 1509                                                                     | COMP+CAN  | 1/2                            | 12.0 TTG           |                       | U A           | 4176                                                                    | COMPOSITE | 3/8                            | 10.0 TPG (s)      |                       | U A           |
| 1637                                                                     | COMP+CAN  | (S)                            | 6 LTG (b)(A)       | (.030)                | U A           | <b>White Aluminum Enterprises LLC ; Abu Dhabi, United Arab Emirates</b> |           |                                |                   |                       |               |
| 4249                                                                     | COMP+CAN  | (H)                            | 8-16+ LTG (b)(A)   | (.030)                | U A           | 4598                                                                    | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 4250                                                                     | COMP+CAN  | (H)                            | 12-16+ LTG (ip)(A) | (.060)                | U A           | 4597                                                                    | COMPOSITE | 5/16                           | 8.0 TTG           |                       | U A           |
| <b>Viracon Inc. ; St. George, UT</b>                                     |           |                                |                    |                       |               | <b>Wholesale Glass Dist. ; Memphis, TN</b>                              |           |                                |                   |                       |               |
| 5582                                                                     | COMPOSITE | 3/16                           | 5.0 TTG            |                       | U A           | 4379                                                                    | COMPOSITE | 3/16                           | 5.0 TTG           |                       | U A           |
| 5555                                                                     | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           | 4380                                                                    | COMPOSITE | 1/4                            | 6.0 TTG           |                       | U A           |
| 5556                                                                     | COMPOSITE | 5/16                           | 8.0 TTG            |                       | U A           | 4381                                                                    | COMPOSITE | 3/8                            | 10.0 TTG          |                       | U A           |
| 5557                                                                     | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           | 4382                                                                    | COMPOSITE | 1/2                            | 12.0 TTG          |                       | U A           |
| <b>Viracon Inc. ; Statesboro, GA</b>                                     |           |                                |                    |                       |               |                                                                         |           |                                |                   |                       |               |
| 2314                                                                     | COMP+CAN  | 3/16                           | 5.0 TTG            |                       | U A           |                                                                         |           |                                |                   |                       |               |
| 2310                                                                     | COMP+CAN  | 1/4                            | 6.0 TTG            |                       | U A           |                                                                         |           |                                |                   |                       |               |
| 4720                                                                     | COMP+CAN  | 5/16                           | 8.0 TTG            |                       | U A           |                                                                         |           |                                |                   |                       |               |
| 2311                                                                     | COMP+CAN  | 3/8                            | 10.0 TTG           |                       | U A           |                                                                         |           |                                |                   |                       |               |
| 5017                                                                     | COMP+CAN  | (S)                            | 6 LTG (b)(A)       | (.030)                | U A           |                                                                         |           |                                |                   |                       |               |
| 4779                                                                     | COMP+CAN  | (H)                            | 8-16+ LTG (b)(A)   | (.030)                | U A           |                                                                         |           |                                |                   |                       |               |
| 4784                                                                     | COMP+CAN  | (H)                            | 12 LTG (ip)(A)     | (.090)                | U A           |                                                                         |           |                                |                   |                       |               |

## Certified Products-Alphabetical By Plant

| SGCC#                                                                       | TEST STD  | INCHES (MM)       | TYPE            | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                                                    | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS |
|-----------------------------------------------------------------------------|-----------|-------------------|-----------------|--------------------|------------|------------------------------------------------------------------------------------------|-----------|-------------------|------------------|--------------------|------------|
|                                                                             |           | (THICKNESS CLASS) |                 |                    |            |                                                                                          |           | (THICKNESS CLASS) |                  |                    |            |
| <b>Wisconsin Shower Door &amp; Supply Corp ; Menomonee Falls, WI</b>        |           |                   |                 |                    |            | <b>Xinyi Glass (Tianjin) Co. Ltd. ; Tianjin, China</b>                                   |           |                   |                  |                    |            |
| 5585                                                                        | COMPOSITE | 1/8               | 3.0 TTG         |                    | U A        | 5532                                                                                     | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 5587                                                                        | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        | 5533                                                                                     | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 5588                                                                        | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        | 5534                                                                                     | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        |
| 5589                                                                        | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        | 5535                                                                                     | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 5590                                                                        | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        | 5536                                                                                     | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 5592                                                                        | COMPOSITE | 1/8               | 3.0 TPG (s)     |                    | U A        | 5538                                                                                     | COMP+CAN  | (S)               | 6 LTG (b)(A)     | (.030)             | U A        |
| 5593                                                                        | COMPOSITE | 5/32              | 4.0 TPG (m)     |                    | U A        | 5539                                                                                     | COMP+CAN  | (H)               | 8-16+ LTG (b)(A) | (.030)             | U A        |
| 5594                                                                        | COMPOSITE | 3/16              | 5.0 TPG (s)     |                    | U A        | <b>Xinyi Group (Glass) Co., Ltd. ; Dongguan, Guangdong, China</b>                        |           |                   |                  |                    |            |
| 5595                                                                        | COMPOSITE | 1/4               | 6.0 TPG (m)     |                    | U A        | 3085                                                                                     | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 5596                                                                        | COMPOSITE | 3/8               | 10.0 TPG (m)    |                    | U A        | 3053                                                                                     | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 5597                                                                        | COMPOSITE | 1/2               | 12.0 TPG (m)    |                    | U A        | 4648                                                                                     | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        |
| <b>Wolverine Glass Products, Inc. ; Grand Rapids, MI</b>                    |           |                   |                 |                    |            | 3054                                                                                     | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 5425                                                                        | COMP+CAN  | 1/8               | 3.0 TTG         |                    | U A        | 3055                                                                                     | COMP+CAN  | *                 | 12.0 TTG (4)     |                    | U A        |
| 5426                                                                        | COMP+CAN  | 5/32              | 4.0 TTG         |                    | U A        | 4179                                                                                     | COMP+CAN  | *                 | 15.0 TTG (3)     |                    | U A        |
| 5427                                                                        | COMP+CAN  | 3/16              | 5.0 TTG         |                    | U A        | 3056                                                                                     | COMP+CAN  | (S)               | 6 LTG (b)(A)     | (.030)             | U A        |
| 5428                                                                        | COMP+CAN  | 1/4               | 6.0 TTG         |                    | U A        | 3489                                                                                     | COMP+CAN  | (H)               | 8-16+ LTG (b)(A) | (.030)             | U A        |
| 5429                                                                        | COMP+CAN  | 5/16              | 8.0 TTG         |                    | U A        | <b>Yao Xiang Glass Product Co. Ltd. ; Foshan, Guangdong, China</b>                       |           |                   |                  |                    |            |
| 5430                                                                        | COMP+CAN  | 3/8               | 10.0 TTG        |                    | U A        | 3736                                                                                     | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 5431                                                                        | COMP+CAN  | 1/2               | 12.0 TTG        |                    | U A        | 3737                                                                                     | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| <b>WSD Glass, Inc. ; Winston-Salem, NC</b>                                  |           |                   |                 |                    |            | 3738                                                                                     | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 4048                                                                        | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        | 3739                                                                                     | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        |
| 4049                                                                        | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        | 3740                                                                                     | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 4052                                                                        | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        | 3741                                                                                     | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 4050                                                                        | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        | 3742                                                                                     | COMP+CAN  | 3/16              | 5.0 TBG          |                    | U A        |
| 4051                                                                        | COMPOSITE | 3/16              | 5.0 TPG (s)     |                    | U A        | 3743                                                                                     | COMP+CAN  | 1/4               | 6.0 TBG          |                    | U A        |
| <b>Wuhan Aozheng Science and Technology Co., Ltd. ; Wuhan, Hubei, China</b> |           |                   |                 |                    |            | <b>Yong Feng Tai Foshan City Glas Co., LTD. ; Foshan, Guangdong, China</b>               |           |                   |                  |                    |            |
| 5238                                                                        | COMP+CAN  | 3/16              | 5.0 TTG         |                    | U A        | 5890                                                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 5239                                                                        | COMP+CAN  | 1/4               | 6.0 TTG         |                    | U A        | 5891                                                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 5240                                                                        | COMP+CAN  | 5/16              | 8.0 TTG         |                    | U A        | 5892                                                                                     | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        |
| 5241                                                                        | COMP+CAN  | 3/8               | 10.0 TTG        |                    | U A        | 5893                                                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| <b>Wujiang Golden Glass Technologies, Ltd. ; Wujiang City,</b>              |           |                   |                 |                    |            | 5894                                                                                     | COMPOSITE | 1/4               | 6.0 TBG          |                    | U A        |
| 5251                                                                        | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        | 5895                                                                                     | COMPOSITE | 3/8               | 10.0 TBG         |                    | U A        |
| 5252                                                                        | COMPOSITE | 5/16              | 8.0 TTG         |                    | U A        | <b>Zhangjiagang City Daming Glass Product Co., Ltd ; Zhangjiagang City, Jiangsu</b>      |           |                   |                  |                    |            |
| 5253                                                                        | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        | 5464                                                                                     | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        |
| 5254                                                                        | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        | 5465                                                                                     | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 5255                                                                        | COMPOSITE | 5/8               | 15.0 TTG        |                    | U A        | 5466                                                                                     | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 5256                                                                        | COMPOSITE | 3/4               | 19.0 TTG        |                    | U A        | <b>Zhangjiagang Weiyu Fabricated Glass Co. Ltd. ; Zhangjiagang, Jiangsu, China</b>       |           |                   |                  |                    |            |
| 5257                                                                        | COMPOSITE | (H)               | 8 LTG (b)(A)    | (.030)             | U A        | 5737                                                                                     | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |
| 5258                                                                        | COMPOSITE | (H)               | 10 LTG (ip)(A)  | (.035)             | U A        | 5738                                                                                     | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        |
| <b>Xianning CSG Energy Conservation Glass Co., LTD. ; Xianning, Hebei</b>   |           |                   |                 |                    |            | 5739                                                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 5978                                                                        | COMPOSITE | 5/32              | 4.0 TTG         |                    | U A        | 5740                                                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 5979                                                                        | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        | <b>Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd ; Hangzhou, Zhejiang, China</b> |           |                   |                  |                    |            |
| 6004                                                                        | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        | 5077                                                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 6005                                                                        | COMPOSITE | 5/16              | 8.0 TTG         |                    | U A        | 5078                                                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 5980                                                                        | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        | 5079                                                                                     | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        |
| 5981                                                                        | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        | 5080                                                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 5982                                                                        | COMPOSITE | *                 | 15.0 TTG (3)    |                    | U A        | 5081                                                                                     | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| 5983                                                                        | COMPOSITE | 3/4               | 19.0 TTG        |                    | U A        |                                                                                          |           |                   |                  |                    |            |
| 5984                                                                        | COMPOSITE | (H)               | 8,12 LTG (b)(A) | (.030)             | U A        |                                                                                          |           |                   |                  |                    |            |

**Certified Products-Alphabetical By Plant**

| SGCC# | TEST STD | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC# | TEST STD | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|-------|----------|--------------------------------|------|------|-----------------------|---------------|-------|----------|--------------------------------|------|------|-----------------------|---------------|
|-------|----------|--------------------------------|------|------|-----------------------|---------------|-------|----------|--------------------------------|------|------|-----------------------|---------------|

**CERTIFIED PRODUCTS KEY****Glass Product Type Codes**

|     |                               |
|-----|-------------------------------|
| TTG | TEMPERED TRANSPARENT GLASS    |
| TPG | TEMPERED PATTERNED GLASS      |
| TBG | TEMPERED BENT GLASS           |
| TBP | TEMPERED BENT PATTERNED GLASS |
| LTG | LAMINATED TRANSPARENT GLASS   |
| LPG | LAMINATED PATTERNED GLASS     |
| LSP | LAMINATED SPECIALTY PRODUCTS  |
| OCG | ORGANIC COATED GLASS          |
| OCH | ORGANIC COATED GLASS HYBRID   |
| SPS | SAFETY PLASTIC SHEET          |

**Glass Standard Attribute Codes**

|      |                                                                   |
|------|-------------------------------------------------------------------|
| U    | UNLIMITED SIZE CATEGORY                                           |
| A    | ANSI STANDARD - DROP HEIGHT CLASS - 48 INCH DROP                  |
| B    | ANSI STANDARD - DROP HEIGHT CLASS - 18 INCH DROP                  |
| (2)  | CONFORMS TO EN 572-7 THICKNESS TOLERANCES FOR BENT/CHANNEL GLASS  |
| (3)  | CONFORMS TO EN 572-2 THICKNESS TOLERANCES FOR TEMPERED GLASS      |
| (4)  | CONFORMS TO EN 12150 THICKNESS TOLERANCES FOR TEMPERED GLASS      |
| (5)  | CONFORMS TO EN 572-5 THICKNESS TOLERANCES FOR PATTERNED GLASS     |
| (6)  | INDOOR USE ONLY                                                   |
| (7)  | CONFORMS TO JIS 3202:2011 THICKNESS TOLERANCES FOR TEMPERED GLASS |
| (c1) | CPSC CAT 1 ONLY                                                   |
| (*)  | INDICATES EN STANDARD THICKNESS TOLERANCE                         |

**Pattern Glass Attribute Codes**

|     |                 |
|-----|-----------------|
| (s) | SHALLOW PATTERN |
| (m) | MEDIUM PATTERN  |
| (d) | DEEP PATTERN    |

**Laminated Glass Attribute Codes**

|      |                                              |
|------|----------------------------------------------|
| (S)  | STANDARD THICKNESS CLASS FOR LAMINATED GLASS |
| (H)  | HEAVY THICKNESS CLASS FOR LAMINATED GLASS    |
| (A)  | ANNEALED                                     |
| (HS) | HEAT STRENGTHENED                            |
| (T)  | TEMPERED                                     |
| (b)  | POLY VINYL BUTRAL INTERLAYER                 |
| (el) | EPOXY LIQUID CRYSTAL POLYMER                 |
| (ip) | IONOMER                                      |
| (lc) | LIQUID RESIN - MULTI COMPONENT               |
| (lu) | LIQUID RESIN - UV CURE                       |
| (p)  | POLYETHYLENE TEREPHTHALATE                   |
| (f)  | FLUORINATED ETHYLENE PROPYLENE INTERLAYER    |
| (u)  | POLYURETHANE                                 |
| (ev) | ETHYLENE-VINYL ACETATE                       |

**Miscellaneous Codes**

|      |                                                                                                                                                         |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|
| (IN) | INACTIVE (Products bearing this designation have executed a Test Release Bond waiving testing for this certification period due to inactive production) |
|------|---------------------------------------------------------------------------------------------------------------------------------------------------------|



***Certified Products-By Product Type***

|                                                              |                     | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------------------|---------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <b><u>Tempered Transparent Glass</u></b>                     |                     |               |                 |               |                               |                       |
| <i>1/8 Inch Tempered Transparent Glass</i>                   |                     |               |                 |               |                               |                       |
| AGC Flat Glass North America                                 | Spring Hill, KS     | 1702          | COMP+CAN        |               | 500 U                         | A                     |
| AGC Flat Glass North America                                 | Greenland, TN       | 598           | COMP+CAN        |               | 285 U                         | A                     |
| AGC Glass Co. North America<br>Building Products Fabrication | Quakertown, PA      | 2507          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Glass Co. North America<br>Building Products Fabrication | Boardman, OH        | 5471          | COMP+CAN        |               | 800 U                         | A                     |
| Aldora Aluminum and Glass Products<br>Inc.                   | Charleston, SC      | 4328          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products,<br>Inc.                  | Orlando, FL         | 5574          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products,<br>Inc.                  | Miramar, FL         | 4715          | COMPOSITE       |               | 285 U                         | A                     |
| American Insulated Glass Inc.                                | Conley, GA          | 5283          | COMPOSITE       |               | 165 U                         | A                     |
| Amsco Windows                                                | Salt Lake City, UT  | 2578          | COMPOSITE       |               | 750 U                         | A                     |
| Anthony International                                        | Madison, GA         | 3249          | COMPOSITE       |               | 165 U                         | A                     |
| Anthony International                                        | San Fernando, CA    | 520           | ANSI ONLY       |               | 250 U                         | A                     |
| Architectural Glass Products, LLC.                           | St. Louis, MO       | 4571          | COMPOSITE       |               | 100 U                         | A                     |
| Arlene Stained Glass & Door                                  | Houston, TX         | 5127          | COMPOSITE       |               | 175 U                         | A                     |
| ATI Windows                                                  | Riverside, CA       | 5635          | COMPOSITE       |               | 250 U                         | A                     |
| ATN Holding Inc.                                             | Mira Loma, CA       | 5887          | COMPOSITE       |               | 250 U                         | A                     |
| Basco Engineered Products                                    | Hamilton, OH        | 4139          | COMPOSITE       |               | 200 U                         | A                     |
| Best Deal Millworks                                          | Baton Rouge, LA     | 5681          | COMPOSITE       |               | 175 U                         | A                     |
| Blue Star Glass Inc.                                         | North Brunswick, NJ | 4517          | COMPOSITE       |               | 100 U                         | A                     |
| Bronco Industries, Inc.                                      | Delta, BC           | 5870          | COMP+CAN        |               | 195 U                         | A                     |
| Cameron Glass, Inc.                                          | Broken Arrow, OK    | 4832          | COMPOSITE       |               | 500 U                         | A                     |
| Cardinal CG                                                  | Mazomanie, WI       | 4780          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal CG                                                  | Tumwater, WA        | 2007          | COMP+CAN        |               | 195 U                         | A                     |
| Cardinal CG                                                  | Loveland, CO        | 3579          | COMPOSITE       |               | 500 U                         | A                     |
| Cardinal CG                                                  | Northfield, MN      | 1985          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal CG                                                  | Moreno Valley, CA   | 2293          | COMP+CAN        |               | 250 U                         | A                     |
| Cardinal CG                                                  | Spring Green, WI    | 2067          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal CG                                                  | Waxahachie, TX      | 2699          | COMP+CAN        |               | 175 U                         | A                     |
| Cardinal CG                                                  | Buford, GA          | 1921          | COMP+CAN        |               | 165 U                         | A                     |
| Cardinal CG                                                  | Galt, CA            | 2357          | COMPOSITE       |               | 125 U                         | A                     |
| Cardinal CT                                                  | Los Angeles, CA     | 5085          | COMP+CAN        |               | 250 U                         | A                     |
| Cardinal CT                                                  | Mount Airy, NC      | 4578          | COMP+CAN        |               | 165 U                         | A                     |
| Cardinal CT                                                  | Adel, GA            | 5095          | COMPOSITE       |               | 165 U                         | A                     |
| Cardinal CT                                                  | Utica, OH           | 4620          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal CT                                                  | Easton, PA          | 4756          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal CT - S                                              | Irving TX           | 5101          | COMPOSITE       |               | 175 U                         | A                     |
| Cardinal CT - W                                              | Irving TX           | 5245          | COMPOSITE       |               | 175 U                         | A                     |
| Cardinal FG                                                  | Durant, OK          | 2909          | COMP+CAN        |               | 175 U                         | A                     |
| Cardinal IG                                                  | Waxahachie, TX      | 2328          | COMP+CAN        |               | 175 U                         | A                     |
| Cardinal IG                                                  | Vinton, VA          | 2919          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal IG                                                  | Tomah, WI           | 2317          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal IG                                                  | Fremont, IN         | 2176          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                                  | Mountain Top, PA    | 3068          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal IG                                                  | Hood River, OR      | 2831          | COMP+CAN        |               | 195 U                         | A                     |
| Cardinal IG                                                  | Spring Green, WI    | 1831          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                                  | Ocala, FL           | 3505          | COMPOSITE       |               | 285 U                         | A                     |
| Cardinal IG                                                  | Greenfield, IA      | 1827          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal IG                                                  | Casa Grande, AZ     | 2878          | COMP+CAN        |               | 250 U                         | A                     |

***Certified Products-By Product Type***

|                                                  |                                   | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------|-----------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/8 Inch Tempered Transparent Glass</i>       |                                   |               |                 |               |                               |                       |
| Cardinal IG                                      | Fargo, ND                         | 2235          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal TG                                      | Tomah, WI                         | 1804          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal TG                                      | Chehalis, WA                      | 3455          | COMP+CAN        | 750 U         | A                             |                       |
| Changshu Hard Glass Co., Ltd.                    | Changshu, Jiangsu, China          | 2904          | COMPOSITE       | 125 U         | A                             |                       |
| Changshu Weier Glass Products Co. Ltd.           | Changshu, Jiangsu, China          | 5351          | COMPOSITE       | 125 U         | A                             |                       |
| Changshu Xingfu Glass Building Material Co., LTD | Changshu, Jiangsu, China          | 4657          | COMP+CAN        | 165 U         | A                             |                       |
| Changshu Zhongxin Bldg. Mat. Co.                 | Changshu City, China              | 2432          | COMP+CAN        | 750 U         | A                             |                       |
| Changshu Zhouxing Glass Co. Ltd.                 | Changshu, Jiangsu Province, China | 4936          | COMPOSITE       | 125 U         | A                             |                       |
| ClearEdge Glass                                  | Baton Rouge, LA                   | 5308          | COMPOSITE       | 175 U         | A                             |                       |
| Cleer Vision Tempered Glass                      | Elkhart, IN                       | 4546          | COMP+CAN        | 200 U         | A                             |                       |
| Commercial Insulating Glass Co.                  | Cumberland City, TN               | 3806          | COMPOSITE       | 165 U         | A                             |                       |
| Commercial Insulating Glass Co.                  | Sarasota, FL                      | 1889          | COMPOSITE       | 285 30x76     | A                             |                       |
| Consolidated Glass Corp.                         | New Castle, PA                    | 1998          | COMP+CAN        | 285 U         | A                             |                       |
| Contour Industries, Inc.                         | Surgoinsville, TN                 | 1680          | COMP+CAN        | 285 U         | A                             |                       |
| Contract Glass                                   | Wilmington, MA                    | 4970          | COMPOSITE       | 100 U         | A                             |                       |
| Contractors Wardrobe                             | Valencia, CA                      | 3464          | COMP+CAN        | 250 U         | A                             |                       |
| Coral Industries Glass Division                  | Tuscaloosa, AL                    | 3420          | COMPOSITE       | 165 U         | A                             |                       |
| Dalian Huaying Glass Limited Liability Co.       | Liaoning, China                   | 5260          | COMP+CAN        | 285 U         | A                             |                       |
| Dallas Flat Glass                                | Carrollton, TX                    | 4790          | COMPOSITE       | 175 U         | A                             |                       |
| Deqing Sanxing Plastic Chemical Co. Ltd.         | Huzhou, Zhejiang, China           | 4055          | COMPOSITE       | 750 U         | A                             |                       |
| Dillmeier Enterprise, Inc.                       | Van Buren, AR                     | 4838          | COMPOSITE       | 175 U         | A                             |                       |
| EFCO Corporation                                 | Monett, MO                        | 4121          | COMPOSITE       | 175 U         | A                             |                       |
| Engineered Glass Products, L.L.C.                | Chicago, IL                       | 4388          | COMPOSITE       | 200 30x60     | A                             |                       |
| Flat Glass Distributors                          | Jacksonville, FL                  | 3822          | COMPOSITE       | 285 U         | A                             |                       |
| General Glass                                    | Portland, OR                      | 4031          | COMPOSITE       | 195 U         | A                             |                       |
| Glass and Mirror Craft                           | Wixom, MI                         | 4198          | COMP+CAN        | 150 U         | A                             |                       |
| Glass Dynamics, Inc.                             | Stoneville, NC                    | 2728          | COMPOSITE       | 285 U         | A                             |                       |
| GlassFab Tempering Services, Inc. Mariani Ct.    | Tracy, CA                         | 5584          | COMPOSITE       | 125 U         | A                             |                       |
| Glasswerks LA, Inc. East                         | South Gate, CA                    | 4804          | COMPOSITE       | 250 U         | A                             |                       |
| Glaz-Tech Industries, Inc.                       | Englewood, CO                     | 2185          | COMPOSITE       | 250 U         | A                             |                       |
| Glenny Glass Co.                                 | Milford, OH                       | 3841          | COMPOSITE       | 200 U         | A                             |                       |
| Global Security Glazing                          | Selma, AL                         | 4764          | COMP+CAN        | 285 U         | A                             |                       |
| Guardian Fabrication Inc.                        | Webster, MA                       | 300           | COMPOSITE       | 100 U         | A                             |                       |
| Guardian IG LLC                                  | Sun Prairie, WI                   | 5640          | COMP+CAN        | 600 U         | A                             |                       |
| Guardian Industries Corp.                        | Richburg, SC                      | 1630          | COMPOSITE       | 285 U         | A                             |                       |
| Guardian Industries Corp.                        | Geneva, NY                        | 2259          | COMPOSITE       | 400 U         | A                             |                       |
| Guardian Industries Corp.                        | Galax, VA                         | 4604          | COMP+CAN        | 285 U         | A                             |                       |
| Guardian Industries Corp.                        | Carleton, MI                      | 933           | COMPOSITE       | 200 U         | A                             |                       |
| Guardian Industries Corp.                        | Kingsburg, CA                     | 968           | COMP+CAN        | 125 U         | A                             |                       |
| Guardian Industries Corp.                        | DeWitt, IA                        | 2020          | COMPOSITE       | 500 U         | A                             |                       |
| Guardian Industries Corp.                        | Corsicana, TX                     | 1248          | COMP+CAN        | 175 U         | A                             |                       |
| Huachuang Longfei Glass Co., Ltd.                | Hebei China                       | 6041          | COMPOSITE       | 250 U         | A                             |                       |
| Innovative Glass of America, Inc.                | Dallas, NC                        | 3859          | COMPOSITE       | 165 U         | A                             |                       |
| Insulite Glass Co., Inc.                         | Olathe, KS                        | 4473          | COMPOSITE       | 150 U         | A                             |                       |
| Intex Glass (Xiamen) Co., Ltd.                   | Xiamen, Fujian, China             | 2572          | COMP+CAN        | 200 U         | A                             |                       |
| Intigral                                         | Walton Hills, OH                  | 2050          | COMP+CAN        | 200 U         | A                             |                       |
| Jiangyin Mingyang Glass Production               | Jiangyin City, Jiangsu            | 5777          | ANSI ONLY       | 125 U         | A                             |                       |
| JYC Glass Co. Ltd.                               | Foshan, Guangdong, China          | 3957          | COMP+CAN        | 125 U         | A                             |                       |

***Certified Products-By Product Type***

|                                               |                                     | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------|-------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/8 Inch Tempered Transparent Glass</i>    |                                     |               |                 |               |                               |                       |
| Kawneer - (Cranberry) a division of Alcoa     | Cranberry Township, PA              | 2488          | COMPOSITE       | 100 U         | A                             |                       |
| Kohler Company                                | Union City, TN                      | 1979          | COMPOSITE       | 165 U         | A                             |                       |
| M Industria S.A. DE C.V.                      | Merida, Yucatan Mexico              | 5761          | COMPOSITE       | 285 U         | A                             |                       |
| Maryland Glass & Mirror                       | Baltimore, MD                       | 4318          | COMPOSITE       | 100 U         | A                             |                       |
| Midwest Glass Fabricators Inc.                | Highland, MI                        | 6027          | COMP+CAN        | 200 U         | A                             |                       |
| Multiver                                      | Vanier, QC                          | 2498          | COMPOSITE       | 400 U         | A                             |                       |
| Nashville Tempered Glass Corp.                | Nashville, TN                       | 1416          | COMP+CAN        | 285 U         | A                             |                       |
| New Angle Beveling                            | Clearfield, PA                      | 5772          | COMPOSITE       | 100 U         | A                             |                       |
| New Angle Beveling                            | Hyde, PA                            | 4593          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Schofield, WI                       | 3167          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Albertville, MN                     | 3104          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Warrenton, MO                       | 3144          | COMP+CAN        | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Wright City, MO                     | 3137          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Hauppauge, NY                       | 1546          | COMP+CAN        | 400 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Moorestown, NJ                      | 3180          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Indianapolis, IN                    | 2210          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Covington, GA                       | 3329          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Tampa, FL                           | 3116          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Rock Hill, SC                       | 3276          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Vancouver, WA                       | 3219          | COMP+CAN        | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Houston, TX                         | 3156          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Denver, CO                          | 3310          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Los Angeles, CA                     | 1608          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Fremont, CA                         | 3191          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Perrysburg, OH                      | 3233          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Miami, FL                           | 3496          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Grand Prairie, TX                   | 3250          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Shawnee, OK                         | 3095          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Langley, BC                         | 3286          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Concord, ON                         | 3439          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Phoenix, AZ                         | 3128          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                   | Calgary, AB                         | 3263          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope® Canada Inc.       | Pointe-aux-Trembles, QC             | 1996          | COMP+CAN        | 100 U         | A                             |                       |
| Paragon Tempered Glass                        | Antwerp, OH                         | 2684          | COMPOSITE       | 500 U         | A                             |                       |
| Perficom S.A. DE C.V.                         | San Juan Del Rio, Querétaro, Mexico | 4512          | COMPOSITE       | 175 U         | A                             |                       |
| PFG Glass                                     | Langley, BC                         | 3538          | COMP+CAN        | 750 U         | A                             |                       |
| PGT Industries                                | Nokomis, FL                         | 2389          | COMPOSITE       | 285 U         | A                             |                       |
| PPG Inds. Inc.                                | Carlisle, PA                        | 250           | COMP+CAN        | 400 U         | A                             |                       |
| PPG Inds. Inc.                                | Barrie, ON                          | 5207          | COMP+CAN        | 800 U         | A                             |                       |
| PPG Inds., Inc.                               | Wichita Falls, TX                   | 1110          | COMPOSITE       | 175 U         | A                             |                       |
| Prelco Inc.                                   | Saint-Jacques, NB                   | 4911          | COMP+CAN        | 800 U         | A                             |                       |
| Prelco Inc.                                   | Riviere-du-loup, QC                 | 2034          | COMP+CAN        | 800 U         | A                             |                       |
| Produits Verrier International Inc.           | Montreal, Quebec                    | 5498          | COMP+CAN        | 100 U         | A                             |                       |
| Qingdao Jinjing Co., Ltd.                     | Qingdao City, Shandong China        | 5613          | COMPOSITE       | 125 U         | A                             |                       |
| Qinhuangdao Ampac Building Products Co., Ltd. | Qinhuangdao Hebei, China            | 5899          | COMPOSITE       | 100 U         | A                             |                       |
| Qinhuangdao Dawei Glass Products Co. Ltd.     | Qinhuangdao, Hebei, China           | 5787          | ANSI ONLY       | 250 U         | A                             |                       |
| Qinhuangdao Detai Tempered Glass Co., Ltd.    | Qinhuangdao, Hebei, China           | 4156          | COMPOSITE       | 100 U         | A                             |                       |
| Qinhuangdao Jingxin Glass Co., Ltd.           | Qinhuangdao City, Hebei Province    | 5280          | COMPOSITE       | 100 U         | A                             |                       |

***Certified Products-By Product Type***

|                                                                |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 1/8 Inch Tempered Transparent Glass                            |                            |               |                 |               |                               |                       |
| Qinhuangdao Kunping Safety Glass Co. Ltd.                      | Qinhuangdao, Hebei, China  | 3730          | COMPOSITE       |               | 100 U                         | A                     |
| Qinhuangdao Qicaishi                                           | Qinhuangdao, Hebei, China  | 5141          | COMPOSITE       |               | 100 U                         | A                     |
| QinHuangDao Tianrui Tempered Technology Glass Co.              | Qinhuangdao, Hebei, China  | 3690          | COMPOSITE       |               | 100 U                         | A                     |
| Quaker Window Products, Inc.                                   | Freeburg, MO               | 2985          | COMP+CAN        |               | 150 U                         | A                     |
| RF Supply, Inc.                                                | Bradenton, FL              | 5859          | COMPOSITE       |               | 285 U                         | A                     |
| Robover Inc.                                                   | Quebec City, QC            | 5199          | COMP+CAN        |               | 450 U                         | A                     |
| SAAND London                                                   | London, ON Canada          | 3978          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Ottawa                                                   | Stittsville, ON            | 4949          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Rexdale                                                  | Rexdale, ON                | 4995          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Toronto                                                  | Toronto, ON Canada         | 2481          | COMP+CAN        |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                                    | Sweetwater, TN             | 1334          | COMP+CAN        |               | 285 U                         | A                     |
| SCHOTT Gemtron (Canada) Corporation                            | Midland, ON Canada         | 3067          | COMP+CAN        |               | 100 U                         | A                     |
| SIGCO, Inc.                                                    | Westbrook, ME              | 2961          | COMPOSITE       |               | 100 U                         | A                     |
| Simonton Windows                                               | Paris, IL                  | 4979          | COMPOSITE       |               | 150 U                         | A                     |
| Simonton Windows                                               | Ellenboro, WV              | 2887          | COMPOSITE       |               | 100 U                         | A                     |
| Solar Seal Massachusetts                                       | South Easton, MA           | 3001          | COMPOSITE       |               | 800 U                         | A                     |
| Solar Seal Virginia                                            | Stafford, VA               | 5721          | COMPOSITE       |               | 100 U                         | A                     |
| Swift Glass Co., Inc.                                          | Elmira Heights, NY         | 1555          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                                       | Syracuse, NY               | 2654          | COMP+CAN        |               | 400 U                         | A                     |
| Tai Shan City Da Heng Art Glass Ltd.                           | Tai Shan, Guangdong, China | 3787          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                             | Surgoinsville, TN          | 2547          | COMP+CAN        |               | 285 U                         | A                     |
| Tecnoglass S.A.                                                | Barranquilla, Columbia     | 2133          | COMP+CAN        |               | 285 U                         | A                     |
| Tempco Glass                                                   | Flushing, NY               | 5009          | COMPOSITE       |               | 400 U                         | A                     |
| Texas Tempered, a Trulite Glass and Aluminum Solutions Company | Houston, TX                | 4847          | COMPOSITE       |               | 175 U                         | A                     |
| Thermal Seal Insulating Glass                                  | Uxbridge, MA               | 5731          | COMPOSITE       |               | 285 U                         | A                     |
| Thermo BSL                                                     | Riviere-du-loup, QC        | 4290          | COMP+CAN        |               | 800 U                         | A                     |
| Thermoseal Industries, LLC                                     | Gloucester City, NJ        | 4468          | COMPOSITE       |               | 100 U                         | A                     |
| Thompson I.G. LLC.                                             | Fenton, MI                 | 5303          | COMP+CAN        |               | 100 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd.             | Tianjin, China             | 2889          | COMPOSITE       |               | 250 U                         | A                     |
| Tri-Star Glass, Inc.                                           | Tulsa, OK                  | 4004          | COMPOSITE       |               | 175 U                         | A                     |
| Triton Glass LLC                                               | Albemarle, NC              | 5690          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | New Berlin, WI             | 5876          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Youngsville, NC            | 5272          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Phoenix, AZ                | 5700          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Fresno, CA                 | 5820          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Fremont, CA                | 5792          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Sacramento, CA             | 5807          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Cheswick, PA               | 1784          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | San Antonio, TX            | 3645          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Orlando, FL                | 5183          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Atlanta, GA                | 2959          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Aurora, CO                 | 5341          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Knoxville, TN              | 4209          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Fort Worth, TX             | 5396          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Indianapolis, IN           | 4749          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Tulsa, OK                  | 5687          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Grenada, MS                | 2787          | COMPOSITE       |               | 500 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | City of Industry, CA       | 4182          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Columbus, OH               | 4745          | COMPOSITE       |               | 200 U                         | A                     |

**Certified Products-By Product Type**

|                                                                                                |                                   | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|------------------------------------------------------------------------------------------------|-----------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <b>1/8 Inch Tempered Transparent Glass</b>                                                     |                                   |               |                 |               |                               |                       |
| Trulite Glass and Aluminum Solutions                                                           | Las Vegas, NV                     | 4210          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                           | Houston, TX                       | 5432          | COMP+CAN        |               | 175 U                         | A                     |
| Tweddell's Inc.                                                                                | Santa Ana, CA                     | 5384          | COMP+CAN        |               | 250 U                         | A                     |
| U.S. Glass Distributors Inc.                                                                   | Enfield, CT                       | 5921          | COMP+CAN        |               | 400 U                         | A                     |
| United Plate Glass Co., Inc.                                                                   | Butler, PA                        | 2467          | COMPOSITE       |               | 800 U                         | A                     |
| United Plate Glass Company of Charlotte                                                        | Lincolnton, NC                    | 3948          | COMP+CAN        |               | 165 U                         | A                     |
| Unitex Glass Chengdu Co., Ltd                                                                  | Chendu, Sichuan, China            | 5462          | ANSI ONLY       |               | 200 U                         | A                     |
| Upstate Glass Tempering Inc.                                                                   | Middletown, NY                    | 4926          | COMPOSITE       |               | 400 U                         | A                     |
| View Inc.                                                                                      | Olive Branch, MS                  | 4725          | COMPOSITE       |               | 175 U                         | A                     |
| Viwinco, Inc.                                                                                  | Morgantown, PA                    | 3074          | COMPOSITE       |               | 100 U                         | A                     |
| W. A. Wilson Inc.                                                                              | Wheeling, WV                      | 4169          | COMPOSITE       |               | 200 U                         | A                     |
| Wisconsin Shower Door & Supply Corp                                                            | Menomonee Falls, WI               | 5585          | COMPOSITE       |               | 600 U                         | A                     |
| Wolverine Glass Products, Inc.                                                                 | Grand Rapids, MI                  | 5425          | COMP+CAN        |               | 200 U                         | A                     |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.                                                   | Zhangjiagang, Jiangsu, China      | 5737          | COMPOSITE       |               | 250 U                         | A                     |
| <b>3 mm Tempered Transparent Glass (Conforms to thickness tolerance other than ASTM C1036)</b> |                                   |               |                 |               |                               |                       |
| Saint-Gobain SOVIS                                                                             | Thierry, France                   | 2769          | COMPOSITE       | (4)           | 400 U                         | A                     |
| <b>5/32 Inch Tempered Transparent Glass</b>                                                    |                                   |               |                 |               |                               |                       |
| AGC Flat Glass North America                                                                   | Spring Hill, KS                   | 1703          | COMP+CAN        |               | 500 U                         | A                     |
| AGC Flat Glass North America                                                                   | Greenland, TN                     | 955           | COMP+CAN        |               | 285 U                         | A                     |
| AGC Glass Co. North America Building Products Fabrication                                      | Quakertown, PA                    | 3421          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Glass Co. North America Building Products Fabrication                                      | Boardman, OH                      | 5472          | COMP+CAN        |               | 800 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.                                                        | Charleston, SC                    | 4329          | COMPOSITE       |               | 285 U                         | A                     |
| All Glass (Suqian) Limited                                                                     | Suqian City, Jiangsu              | 6016          | COMPOSITE       |               | 125 U                         | A                     |
| All Team Glass & Mirror, Ltd.                                                                  | Woodbridge, ON Canada             | 1754          | COMPOSITE       |               | 450 U                         | A                     |
| Allglass Tempering Inc.                                                                        | Schiller Park, IL                 | 5835          | COMPOSITE       |               | 600 U                         | A                     |
| Amsco Windows                                                                                  | Salt Lake City, UT                | 4643          | COMPOSITE       |               | 750 U                         | A                     |
| Anthony International                                                                          | San Fernando, CA                  | 2289          | ANSI ONLY       |               | 250 U                         | A                     |
| Anthony International                                                                          | Madison, GA                       | 3027          | COMPOSITE       |               | 165 U                         | A                     |
| Ascent Glass Products (Zhong Shan) Limited                                                     | Zhongsan City, Guangdong Province | 5865          | COMPOSITE       |               | 285 U                         | A                     |
| ATI Windows                                                                                    | Riverside, CA                     | 5636          | COMPOSITE       |               | 250 U                         | A                     |
| Beijing Wuhua Tianbao Glass Co.                                                                | Beijing, China                    | 5558          | COMPOSITE       |               | 125 U                         | A                     |
| Bronco Industries, Inc.                                                                        | Delta, BC                         | 5871          | COMP+CAN        |               | 195 U                         | A                     |
| Cardinal CG                                                                                    | Mazomanie, WI                     | 4781          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal CG                                                                                    | Northfield, MN                    | 1986          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal CG                                                                                    | Galt, CA                          | 2358          | COMPOSITE       |               | 125 U                         | A                     |
| Cardinal CG                                                                                    | Loveland, CO                      | 3580          | COMPOSITE       |               | 500 U                         | A                     |
| Cardinal CG                                                                                    | Waxahachie, TX                    | 2700          | COMP+CAN        |               | 175 U                         | A                     |
| Cardinal CG                                                                                    | Moreno Valley, CA                 | 2294          | COMP+CAN        |               | 250 U                         | A                     |
| Cardinal CG                                                                                    | Tumwater, WA                      | 2008          | COMP+CAN        |               | 195 U                         | A                     |
| Cardinal CG                                                                                    | Spring Green, WI                  | 2068          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal CG                                                                                    | Buford, GA                        | 1922          | COMP+CAN        |               | 165 U                         | A                     |
| Cardinal CT                                                                                    | Utica, OH                         | 4621          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal CT                                                                                    | Mount Airy, NC                    | 4579          | COMP+CAN        |               | 165 U                         | A                     |
| Cardinal CT                                                                                    | Los Angeles, CA                   | 5086          | COMP+CAN        |               | 250 U                         | A                     |
| Cardinal CT                                                                                    | Easton, PA                        | 4757          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal CT                                                                                    | Adel, GA                          | 5096          | COMPOSITE       |               | 165 U                         | A                     |

***Certified Products-By Product Type***

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|------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/32 Inch Tempered Transparent Glass</i>    |                             |               |                 |               |                               |                       |
| Cardinal CT - S                                | Irving TX                   | 5102          | COMPOSITE       |               | 175 U                         | A                     |
| Cardinal CT - W                                | Irving TX                   | 5246          | COMPOSITE       |               | 175 U                         | A                     |
| Cardinal FG                                    | Durant, OK                  | 2910          | COMP+CAN        |               | 175 U                         | A                     |
| Cardinal IG                                    | Tomah, WI                   | 2318          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal IG                                    | Fremont, IN                 | 2177          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                    | Spring Green, WI            | 5910          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                    | Ocala, FL                   | 3506          | COMPOSITE       |               | 285 U                         | A                     |
| Cardinal IG                                    | Mountain Top, PA            | 3069          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal IG                                    | Casa Grande, AZ             | 2879          | COMP+CAN        |               | 250 U                         | A                     |
| Cardinal IG                                    | Waxahachie, TX              | 2329          | COMP+CAN        |               | 175 U                         | A                     |
| Cardinal IG                                    | Fargo, ND                   | 2234          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                    | Greenfield, IA              | 1828          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal IG                                    | Vinton, VA                  | 2920          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal IG                                    | Hood River, OR              | 2858          | COMP+CAN        |               | 195 U                         | A                     |
| Cardinal Tempering                             | Louisville, KY              | 3871          | COMPOSITE       |               | 175 U                         | A                     |
| Cardinal TG                                    | Chehalis, WA                | 3456          | COMP+CAN        |               | 750 U                         | A                     |
| Cardinal TG                                    | Tomah, WI                   | 1805          | COMP+CAN        |               | 600 U                         | A                     |
| Cat-I Manufacturing, Inc.                      | South Elgin, IL             | 5755          | COMP+CAN        |               | 500 U                         | A                     |
| Changshu Hard Glass Co., Ltd.                  | Changshu, Jiangsu, China    | 2987          | COMPOSITE       |               | 125 U                         | A                     |
| Changshu Weier Glass Products Co. Ltd.         | Changshu, Jiangsu, China    | 5352          | COMPOSITE       |               | 125 U                         | A                     |
| Chicago Tempered Glass, Inc.                   | Chicago, IL                 | 3086          | COMPOSITE       |               | 200 U                         | A                     |
| Cleer Vision Tempered Glass                    | Elkhart, IN                 | 4547          | COMP+CAN        |               | 200 U                         | A                     |
| Consolidated Glass Corp.                       | New Castle, PA              | 1999          | COMP+CAN        |               | 285 U                         | A                     |
| Contour Industries, Inc.                       | Surgoinsville, TN           | 4285          | COMP+CAN        |               | 285 U                         | A                     |
| Contract Glass                                 | Wilmington, MA              | 4971          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                           | Valencia, CA                | 3465          | COMP+CAN        |               | 250 U                         | A                     |
| Custom Glass Solutions Millbury Corp.          | Millbury, OH                | 1575          | COMPOSITE       |               | 200 U                         | A                     |
| DDG Glass Manufacturing SDN BHD                | Masai, Johor                | 5621          | COMP+CAN        |               | 125 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.       | Huzhou, Zhejiang, China     | 4056          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                              | Langley, BC Canada          | 4499          | COMPOSITE       |               | 750 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.     | Dongguan, Guangdong, China  | 3932          | COMP+CAN        |               | 125 U                         | A                     |
| Dongguan Trillion Aluminum Glass Co., Ltd      | Dongguan, Guangdong, China  | 5861          | COMPOSITE       |               | 285 U                         | A                     |
| EFI                                            | Kernersville, NC            | 5014          | COMP+CAN        |               | 165 U                         | A                     |
| Engineered Glass Products, L.L.C.              | Chicago, IL                 | 2589          | COMPOSITE       |               | 200 30x72                     | A                     |
| Fairis C.A.                                    | Ambato, Tungurahua, Ecuador | 4425          | COMPOSITE       |               | 285 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory | Foshan, Guangdong, China    | 4673          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd  | Nan'an Fujian China         | 5216          | COMPOSITE       |               | 285 U                         | A                     |
| General Glass                                  | Portland, OR                | 4032          | COMPOSITE       |               | 195 U                         | A                     |
| GGI Glass Distributors Corp.                   | Secaucus, NJ                | 2928          | COMPOSITE       | (IN)          | 100 U                         | A                     |
| Glass and Mirror Craft                         | Wixom, MI                   | 5116          | COMP+CAN        |               | 150 U                         | A                     |
| Glasswerks LA, Inc. East                       | South Gate, CA              | 5882          | COMPOSITE       |               | 250 U                         | A                     |
| Glasswerks LA, Inc. West                       | South Gate CA               | 5480          | COMPOSITE       |               | 250 U                         | A                     |
| Goldray Industries Ltd.                        | Calgary, AB Canada          | 2445          | COMP+CAN        |               | 195 U                         | A                     |
| Guardian Fabrication Inc.                      | Webster, MA                 | 1607          | COMPOSITE       |               | 100 U                         | A                     |
| Guardian IG LLC                                | Sun Prairie, WI             | 5641          | COMP+CAN        |               | 600 U                         | A                     |
| Guardian Industries Corp.                      | Geneva, NY                  | 2260          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                      | Kingsburg, CA               | 969           | COMP+CAN        |               | 125 U                         | A                     |
| Guardian Industries Corp.                      | Richburg, SC                | 1631          | COMPOSITE       |               | 285 U                         | A                     |

***Certified Products-By Product Type***

|                                                   |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|---------------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/32 Inch Tempered Transparent Glass</i>       |                            |               |                 |               |                               |                       |
| Guardian Industries Corp.                         | DeWitt, IA                 | 2021          | COMPOSITE       | 500 U         | A                             |                       |
| Guardian Industries Corp.                         | Galax, VA                  | 4605          | COMP+CAN        | 285 U         | A                             |                       |
| Guardian Industries Corp.                         | Carleton, MI               | 934           | COMPOSITE       | 200 U         | A                             |                       |
| Guardian Industries Corp.                         | Corsicana, TX              | 1249          | COMP+CAN        | 175 U         | A                             |                       |
| Huahui Glass (China) Co., LD                      | Quanzhou City, China       | 5843          | COMPOSITE       | 285 U         | A                             |                       |
| Innovative Glass of America, Inc.                 | Dallas, NC                 | 3860          | COMPOSITE       | 165 U         | A                             |                       |
| Insulite Glass Co., Inc.                          | Olathe, KS                 | 4474          | COMPOSITE       | 150 U         | A                             |                       |
| Integral Seal Mfg. Inc.                           | Concord, ON Canada         | 4682          | COMP+CAN        | 100 U         | A                             |                       |
| Intex Glass (Xiamen) Co., Ltd.                    | Xiamen, Fujian, China      | 2573          | COMP+CAN        | 200 U         | A                             |                       |
| Intigral                                          | Walton Hills, OH           | 2051          | COMP+CAN        | 200 U         | A                             |                       |
| Jiangmen SYP Engineering Glass                    | Jiangmen, Guangdong, China | 4303          | COMP+CAN        | 125 U         | A                             |                       |
| Jiangyin Mingyang Glass Production                | Jiangyin City, Jiangsu     | 5778          | ANSI ONLY       | 125 U         | A                             |                       |
| Jiaxing Joinbath Corporation                      | Jiaxing, Zhejiang, China   | 5708          | COMPOSITE       | 125 U         | A                             |                       |
| JYC Glass Co. Ltd.                                | Foshan, Guangdong, China   | 3958          | COMP+CAN        | 125 U         | A                             |                       |
| Kibing Special Glass Zhangzhou Co., Ltd.          | Zhangzhou, Fujian          | 5377          | COMPOSITE       | 125 U         | A                             |                       |
| Kohler Company                                    | Union City, TN             | 1980          | COMPOSITE       | 165 U         | A                             |                       |
| Midwest Glass Fabricators Inc.                    | Highland, MI               | 6028          | COMP+CAN        | 200 U         | A                             |                       |
| Multiver                                          | Vanier, QC                 | 2629          | COMPOSITE       | 400 U         | A                             |                       |
| Nashville Tempered Glass Corp.                    | Nashville, TN              | 2497          | COMP+CAN        | 285 U         | A                             |                       |
| Nashville Tempered Glass LLC                      | Hendersonville, TN         | 2691          | COMP+CAN        | 285 U         | A                             |                       |
| Ningbo XinShuGuang Safety Glass Limited Co., Ltd. | Ningbo, China              | 5760          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Fremont, CA                | 3192          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Rock Hill, SC              | 3462          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Shawnee, OK                | 3096          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Denver, CO                 | 3311          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Los Angeles, CA            | 1609          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Covington, GA              | 3330          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Grand Prairie, TX          | 3251          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Warrenton, MO              | 3145          | COMP+CAN        | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Perrysburg, OH             | 3234          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Wright City, MO            | 3138          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Indianapolis, IN           | 2216          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Albertville, MN            | 3105          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Vancouver, WA              | 3220          | COMP+CAN        | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Moorestown, NJ             | 3181          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Langley, BC                | 3287          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Concord, ON                | 3440          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Calgary, AB                | 3264          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Schofield, WI              | 3168          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                       | Houston, TX                | 3157          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope® Canada Inc.           | Pointe-aux-Trembles, QC    | 4247          | COMP+CAN        | 100 U         | A                             |                       |
| Paragon Tempered Glass                            | Antwerp, OH                | 2685          | COMPOSITE       | 500 U         | A                             |                       |
| Patio Enclosures                                  | Macedonia, OH              | 2057          | COMPOSITE       | 200 U         | A                             |                       |
| PPG Glass                                         | Langley, BC                | 3539          | COMP+CAN        | 750 U         | A                             |                       |
| PG Building Glass Processing                      | Cape Town, South Africa    | 4887          | COMPOSITE       | 100 U         | A                             |                       |
| PPG Inds. Inc.                                    | Barrie, ON                 | 5204          | COMP+CAN        | 800 U         | A                             |                       |
| PPG Inds. Inc.                                    | Carlisle, PA               | 675           | COMP+CAN        | 400 U         | A                             |                       |
| PPG Inds., Inc.                                   | Wichita Falls, TX          | 1111          | COMPOSITE       | 175 U         | A                             |                       |
| Prelco Inc.                                       | Riviere-du-loup, QC        | 2035          | COMP+CAN        | 800 U         | A                             |                       |
| Prelco Inc.                                       | Saint-Jacques, NB          | 4912          | COMP+CAN        | 800 U         | A                             |                       |

***Certified Products-By Product Type***

|                                                    |                              | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------|------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 5/32 Inch Tempered Transparent Glass               |                              |               |                 |               |                               |                       |
| Produits Verrier International Inc.                | Montreal, Quebec             | 5499          | COMP+CAN        |               | 100 U                         | A                     |
| PT Abebersa Pratama                                | Bekasi, Indonesia            | 3905          | COMPOSITE       |               | 125 U                         | A                     |
| Qingdao Jinjing Co., Ltd.                          | Qingdao City, Shandong China | 5617          | COMPOSITE       |               | 125 U                         | A                     |
| Qinhuangdao Ampac Building Products Co., Ltd.      | Qinhuangdao Hebei, China     | 5900          | COMPOSITE       |               | 100 U                         | A                     |
| Quaker Window Products, Inc.                       | Freeburg, MO                 | 5297          | COMP+CAN        |               | 150 U                         | A                     |
| Rizhao Huaye Glass Co., Ltd.                       | Rizhao, Shandong             | 5566          | COMP+CAN        |               | 285 U                         | A                     |
| Robover Inc.                                       | Quebec City, QC              | 5200          | COMP+CAN        |               | 450 U                         | A                     |
| SAAND London                                       | London, ON Canada            | 4278          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Ottawa                                       | Stittsville, ON              | 4950          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Rexdale                                      | Rexdale, ON                  | 4996          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Toronto                                      | Toronto, ON Canada           | 2482          | COMP+CAN        |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                        | Sweetwater, TN               | 1332          | COMP+CAN        |               | 285 U                         | A                     |
| SCHOTT Gemtron (Canada) Corporation                | Midland, ON Canada           | 3659          | COMP+CAN        |               | 100 U                         | A                     |
| Shanghai SYP Engineering Glass                     | Shanghai, China              | 4067          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                        | Westbrook, ME                | 2962          | COMPOSITE       |               | 100 U                         | A                     |
| Solar Seal Virginia                                | Stafford, VA                 | 5722          | COMPOSITE       |               | 100 U                         | A                     |
| Tai Shan City Da Heng Art Glass Ltd.               | Tai Shan, Guangdong, China   | 3788          | COMPOSITE       |               | 750 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                | Dongguan, Guangdong, China   | 4870          | COMP+CAN        |               | 285 U                         | A                     |
| Taiwan Glass Industry Corp.                        | Taipei, Taiwan, China        | 3886          | COMP+CAN        |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                 | Surgoinsville, TN            | 2548          | COMP+CAN        |               | 285 U                         | A                     |
| Tecnoglass S.A.                                    | Barranquilla, Columbia       | 2287          | COMP+CAN        |               | 285 U                         | A                     |
| Thermal Seal Insulating Glass                      | Uxbridge, MA                 | 5732          | COMPOSITE       |               | 285 U                         | A                     |
| Thermo BSL                                         | Riviere-du-loup, QC          | 4291          | COMP+CAN        |               | 800 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd     | Tianjin, China               | 4021          | COMPOSITE       |               | 100 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Tianjin, China               | 4035          | COMPOSITE       |               | 250 U                         | A                     |
| Tri-Star Glass, Inc.                               | Tulsa, OK                    | 4005          | COMPOSITE       |               | 175 U                         | A                     |
| Triview Glass Industries                           | City of Industry, CA         | 5039          | COMP+CAN        |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Youngsville, NC              | 5517          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Fremont, CA                  | 5793          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | San Antonio, TX              | 3646          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Fort Worth, TX               | 5397          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Tulsa, OK                    | 5443          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Aurora, CO                   | 5348          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | City of Industry, CA         | 4183          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Fresno, CA                   | 5821          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Vaughan, ON                  | 5507          | COMP+CAN        |               | 450 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Knoxville, TN                | 4827          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | New Berlin, WI               | 5317          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Indianapolis, IN             | 4752          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Sacramento, CA               | 5808          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Phoenix, AZ                  | 5701          | COMPOSITE       |               | 250 U                         | A                     |
| United Plate Glass Company of Charlotte            | Lincolnton, NC               | 4197          | COMPOSITE       |               | 165 U                         | A                     |
| Unitex Glass Chengdu Co., Ltd                      | Chendu, Sichuan, China       | 5463          | ANSI ONLY       |               | 200 U                         | A                     |
| Valentini Glass & Components srl                   | Brescia, Italy               | 2423          | COMPOSITE       |               | 400 U                         | A                     |
| View Inc.                                          | Olive Branch, MS             | 4726          | COMPOSITE       |               | 175 U                         | A                     |
| Viracon Inc.                                       | Owatonna, MN                 | 4354          | COMP+CAN        |               | 150 U                         | A                     |
| Vitra Vidrios Transformados SA de CV               | Cortes, Honduras             | 5037          | COMPOSITE       |               | 285 U                         | A                     |
| Wolverine Glass Products, Inc.                     | Grand Rapids, MI             | 5426          | COMP+CAN        |               | 200 U                         | A                     |



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|                                                           |                                    | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------------------|------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/32 Inch Tempered Transparent Glass</i>               |                                    |               |                 |               |                               |                       |
| Xianning CSG Energy Conservation Glass Co., LTD.          | Xianning, Hebei                    | 5978          | COMPOSITE       | 125 U         | A                             |                       |
| Yao Xiang Glass Product Co. Ltd.                          | Foshan, Guangdong, China           | 3736          | COMP+CAN        | 285 U         | A                             |                       |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.              | Zhangjiagang, Jiangsu, China       | 5738          | COMPOSITE       | 250 U         | A                             |                       |
| <i>3/16 Inch Tempered Transparent Glass</i>               |                                    |               |                 |               |                               |                       |
| AGC Flat Glass North America                              | Greenland, TN                      | 220           | COMP+CAN        | 285 U         | A                             |                       |
| AGC Flat Glass North America                              | Spring Hill, KS                    | 1704          | COMP+CAN        | 500 U         | A                             |                       |
| AGC Glass Co. North America Building Products Fabrication | Quakertown, PA                     | 2509          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Glass Co. North America Building Products Fabrication | Boardman, OH                       | 5473          | COMP+CAN        | 800 U         | A                             |                       |
| Al Abbar Architectural Glass                              | Dubai, United Arab Emirates        | 4846          | COMPOSITE       | 100 U         | A                             |                       |
| Aldora Aluminum and Glass Products Inc.                   | Charleston, SC                     | 4330          | COMPOSITE       | 285 U         | A                             |                       |
| Aldora Aluminum and Glass Products, Inc.                  | Miramar, FL                        | 4716          | COMPOSITE       | 285 U         | A                             |                       |
| Aldora Aluminum and Glass Products, Inc.                  | Orlando, FL                        | 5575          | COMPOSITE       | 285 U         | A                             |                       |
| All Team Glass & Mirror, Ltd.                             | Woodbridge, ON Canada              | 1755          | COMPOSITE       | 450 U         | A                             |                       |
| Allglass Tempering Inc.                                   | Schiller Park, IL                  | 5836          | COMPOSITE       | 600 U         | A                             |                       |
| American Insulated Glass Inc.                             | Conley, GA                         | 5284          | COMPOSITE       | 165 U         | A                             |                       |
| American Shower Door                                      | Los Angeles, CA                    | 4616          | COMPOSITE       | 250 U         | A                             |                       |
| Amsco Windows                                             | Salt Lake City, UT                 | 2580          | COMPOSITE       | 750 U         | A                             |                       |
| Anthony International                                     | Madison, GA                        | 2352          | COMPOSITE       | 165 U         | A                             |                       |
| Anthony International                                     | San Fernando, CA                   | 999           | ANSI ONLY       | 250 U         | A                             |                       |
| Architectural Glass Products, LLC.                        | St. Louis, MO                      | 4572          | COMPOSITE       | 100 U         | A                             |                       |
| Arlene Stained Glass & Door                               | Houston, TX                        | 3583          | COMPOSITE       | 175 U         | A                             |                       |
| Ascent Glass Products (Zhong Shan) Limited                | Zhongshan City, Guangdong Province | 5866          | COMPOSITE       | 285 U         | A                             |                       |
| ATI Windows                                               | Riverside, CA                      | 5637          | COMPOSITE       | 250 U         | A                             |                       |
| ATN Holding Inc.                                          | Mira Loma, CA                      | 5888          | COMPOSITE       | 250 U         | A                             |                       |
| Basco Engineered Products                                 | Hamilton, OH                       | 4724          | COMPOSITE       | 200 U         | A                             |                       |
| Beijing Wuhua Tianbao Glass Co.                           | Beijing, China                     | 5559          | COMPOSITE       | 125 U         | A                             |                       |
| Best Deal Millworks                                       | Baton Rouge, LA                    | 5682          | COMPOSITE       | 175 U         | A                             |                       |
| Blue Star Glass Inc.                                      | North Brunswick, NJ                | 4518          | COMPOSITE       | 100 U         | A                             |                       |
| Bronco Industries, Inc.                                   | Delta, BC                          | 5872          | COMP+CAN        | 195 U         | A                             |                       |
| Cameron Glass, Inc.                                       | Broken Arrow, OK                   | 2501          | COMPOSITE       | 500 U         | A                             |                       |
| Cardinal CG                                               | Northfield, MN                     | 1987          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                               | Mazomanie, WI                      | 5306          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                               | Loveland, CO                       | 3581          | COMPOSITE       | 500 U         | A                             |                       |
| Cardinal CG                                               | Galt, CA                           | 2359          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal CG                                               | Waxahachie, TX                     | 2701          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal CG                                               | Tumwater, WA                       | 2009          | COMP+CAN        | 195 U         | A                             |                       |
| Cardinal CG                                               | Moreno Valley, CA                  | 2295          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal CG                                               | Spring Green, WI                   | 2069          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal CG                                               | Buford, GA                         | 1923          | COMP+CAN        | 165 U         | A                             |                       |
| Cardinal CT                                               | Easton, PA                         | 4758          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal CT                                               | Adel, GA                           | 5097          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                               | Los Angeles, CA                    | 5087          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal CT                                               | Mount Airy, NC                     | 4580          | COMP+CAN        | 165 U         | A                             |                       |
| Cardinal CT                                               | Utica, OH                          | 4622          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal CT - S                                           | Irving TX                          | 5103          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal CT - W                                           | Irving TX                          | 5247          | COMPOSITE       | 175 U         | A                             |                       |

***Certified Products-By Product Type***

|                                                 |                             | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>3/16 Inch Tempered Transparent Glass</i>     |                             |               |                 |               |                               |                       |
| Cardinal FG                                     | Durant, OK                  | 2911          | COMP+CAN        |               | 175 U                         | A                     |
| Cardinal IG                                     | Waxahachie, TX              | 2330          | COMP+CAN        |               | 175 U                         | A                     |
| Cardinal IG                                     | Casa Grande, AZ             | 2880          | COMP+CAN        |               | 250 U                         | A                     |
| Cardinal IG                                     | Vinton, VA                  | 2921          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal IG                                     | Greenfield, IA              | 1829          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal IG                                     | Fargo, ND                   | 2233          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                     | Ocala, FL                   | 3507          | COMPOSITE       |               | 285 U                         | A                     |
| Cardinal IG                                     | Spring Green, WI            | 5911          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                     | Hood River, OR              | 2833          | COMP+CAN        |               | 195 U                         | A                     |
| Cardinal IG                                     | Fremont, IN                 | 2178          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                     | Tomah, WI                   | 2319          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal IG                                     | Mountain Top, PA            | 3070          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal LG                                     | Amery, WI                   | 5193          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal Tempering                              | Louisville, KY              | 3872          | COMPOSITE       |               | 175 U                         | A                     |
| Cardinal TG                                     | Tomah, WI                   | 1806          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal TG                                     | Chehalis, WA                | 3458          | COMP+CAN        |               | 750 U                         | A                     |
| Changshu Hard Glass Co., Ltd.                   | Changshu, Jiangsu, China    | 2988          | COMPOSITE       |               | 125 U                         | A                     |
| Changshu Weier Glass Products Co. Ltd.          | Changshu, Jiangsu, China    | 5353          | COMPOSITE       |               | 125 U                         | A                     |
| Chicago Tempered Glass, Inc.                    | Chicago, IL                 | 3087          | COMPOSITE       |               | 200 U                         | A                     |
| ClearEdge Glass                                 | Baton Rouge, LA             | 5310          | COMPOSITE       |               | 175 U                         | A                     |
| Commercial Insulating Glass Co.                 | Sarasota, FL                | 1890          | COMPOSITE       |               | 285 30x76                     | A                     |
| Commercial Insulating Glass Co.                 | Cumberland City, TN         | 3807          | COMPOSITE       |               | 165 U                         | A                     |
| Consolidated Glass Corp.                        | New Castle, PA              | 2005          | COMP+CAN        |               | 285 U                         | A                     |
| Contour Industries, Inc.                        | Surgoinsville, TN           | 1678          | COMP+CAN        |               | 285 U                         | A                     |
| Contract Glass                                  | Wilmington, MA              | 4972          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                            | Valencia, CA                | 3466          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                 | Tuscaloosa, AL              | 1910          | COMPOSITE       |               | 165 U                         | A                     |
| Custom Glass Solutions Millbury Corp.           | Millbury, OH                | 1576          | COMPOSITE       |               | 200 U                         | A                     |
| Dalian Huaying Glass Limited Liability Co.      | Liaoning, China             | 5261          | COMP+CAN        |               | 285 U                         | A                     |
| Dallas Flat Glass                               | Carrollton, TX              | 4763          | COMPOSITE       |               | 175 U                         | A                     |
| DDG Glass Manufacturing SDN BHD                 | Masai, Johor                | 5622          | COMP+CAN        |               | 125 U                         | A                     |
| Denver Glass Interiors, Inc.                    | Englewood, CO               | 3865          | COMPOSITE       |               | 175 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.        | Huzhou, Zhejiang, China     | 4057          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                               | Langley, BC Canada          | 4500          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                      | Van Buren, AR               | 3912          | COMPOSITE       |               | 175 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.      | Dongguan, Guangdong, China  | 3933          | COMP+CAN        |               | 125 U                         | A                     |
| Downey Glass Industries, LLC                    | Pompano Beach, FL           | 2661          | COMPOSITE       |               | 285 U                         | A                     |
| EFCO Corporation                                | Monett, MO                  | 1901          | COMPOSITE       |               | 175 U                         | A                     |
| EFI                                             | Kernersville, NC            | 5208          | COMP+CAN        |               | 165 U                         | A                     |
| Engineered Glass Products, L.L.C.               | Chicago, IL                 | 2590          | COMPOSITE       |               | 200 30x72                     | A                     |
| Fairis C.A.                                     | Ambato, Tungurahua, Ecuador | 4426          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Distributors                         | Jacksonville, FL            | 3823          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Group Co., Ltd.                      | Jiaxing, Zhejiang           | 5521          | COMPOSITE       |               | 125 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory  | Foshan, Guangdong, China    | 4669          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. | Foshan, Guangdong, China    | 5388          | COMPOSITE       |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd   | Nan'an Fujian China         | 5090          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                       | Burnaby, BC                 | 5124          | COMP+CAN        |               | 750 U                         | A                     |

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|                                                  |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/16 Inch Tempered Transparent Glass             |                            |               |                 |               |                               |                       |
| General Glass                                    | Portland, OR               | 4033          | COMPOSITE       |               | 195 U                         | A                     |
| GGI Glass Distributors Corp.                     | Secaucus, NJ               | 2226          | COMPOSITE       |               | 100 U                         | A                     |
| Glas Works, Inc.                                 | Dania Beach, FL            | 5452          | COMPOSITE       |               | 285 U                         | A                     |
| Glass and Mirror Craft                           | Wixom, MI                  | 4199          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Dynamics, Inc.                             | Stoneville, NC             | 2730          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Enterprises, Inc.                          | Bensalem, PA               | 4628          | COMPOSITE       |               | 100 U                         | A                     |
| GlassFab Tempering Services, Inc.<br>Mariani Ct. | Tracy, CA                  | 4889          | COMPOSITE       |               | 125 U                         | A                     |
| Glasswerks LA, Inc. East                         | South Gate, CA             | 4805          | COMPOSITE       |               | 250 U                         | A                     |
| Glasswerks LA, Inc. West                         | South Gate CA              | 5481          | COMPOSITE       |               | 250 U                         | A                     |
| Glaz-Tech Industries, Inc.                       | Englewood, CO              | 2186          | COMPOSITE       |               | 250 U                         | A                     |
| Glenny Glass Co.                                 | Milford, OH                | 3843          | COMPOSITE       |               | 200 U                         | A                     |
| Global Security Glazing                          | Selma, AL                  | 4765          | COMP+CAN        |               | 285 U                         | A                     |
| Goldray Industries Ltd.                          | Calgary, AB Canada         | 2446          | COMP+CAN        |               | 195 U                         | A                     |
| Guardian Fabrication Inc.                        | Webster, MA                | 1216          | COMPOSITE       |               | 100 U                         | A                     |
| Guardian IG LLC                                  | Sun Prairie, WI            | 5642          | COMP+CAN        |               | 600 U                         | A                     |
| Guardian Industries Corp.                        | Carleton, MI               | 631           | COMPOSITE       |               | 200 U                         | A                     |
| Guardian Industries Corp.                        | Corsicana, TX              | 1250          | COMP+CAN        |               | 175 U                         | A                     |
| Guardian Industries Corp.                        | Richburg, SC               | 1632          | COMPOSITE       |               | 285 U                         | A                     |
| Guardian Industries Corp.                        | Kingsburg, CA              | 970           | COMP+CAN        |               | 125 U                         | A                     |
| Guardian Industries Corp.                        | Geneva, NY                 | 2261          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                        | Galax, VA                  | 4606          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                        | DeWitt, IA                 | 2022          | COMPOSITE       |               | 500 U                         | A                     |
| Industrial Tempering Glass                       | Brooklyn, NY               | 5564          | COMPOSITE       |               | 100 U                         | A                     |
| Innovative Glass of America, Inc.                | Dallas, NC                 | 3861          | COMPOSITE       |               | 165 U                         | A                     |
| Insulite Glass Co., Inc.                         | Olathe, KS                 | 3714          | COMPOSITE       |               | 150 U                         | A                     |
| Integral Seal Mfg. Inc.                          | Concord, ON Canada         | 4683          | COMP+CAN        |               | 100 U                         | A                     |
| Interglass Corp                                  | Miami, FL                  | 5032          | COMPOSITE       |               | 285 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.                   | Xiamen, Fujian, China      | 2574          | COMP+CAN        |               | 200 U                         | A                     |
| Intigral                                         | Walton Hills, OH           | 2052          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass                   | Jiangmen, Guangdong, China | 4304          | COMP+CAN        |               | 125 U                         | A                     |
| JM Glass                                         | Hayward, CA                | 4928          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                               | Foshan, Guangdong, China   | 3959          | COMP+CAN        |               | 125 U                         | A                     |
| Kawneer - (Cranberry) a division of<br>Alcoa     | Cranberry Township, PA     | 2489          | COMPOSITE       |               | 100 U                         | A                     |
| Kibing Special Glass Zhangzhou Co.,<br>Ltd.      | Zhangzhou, Fujian          | 5378          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                                   | Union City, TN             | 1981          | COMPOSITE       |               | 165 U                         | A                     |
| Maryland Glass & Mirror                          | Baltimore, MD              | 4319          | COMPOSITE       |               | 100 U                         | A                     |
| McGrory Glass                                    | Paulsboro, NJ              | 4925          | COMPOSITE       |               | 100 U                         | A                     |
| Midwest Glass Fabricators Inc.                   | Highland, MI               | 6029          | COMP+CAN        |               | 200 U                         | A                     |
| Multiver                                         | Vanier, QC                 | 4524          | COMPOSITE       |               | 400 U                         | A                     |
| Nashville Tempered Glass Corp.                   | Nashville, TN              | 1467          | COMP+CAN        |               | 285 U                         | A                     |
| Nashville Tempered Glass LLC                     | Hendersonville, TN         | 2692          | COMP+CAN        |               | 285 U                         | A                     |
| New Angle Beveling                               | Clearfield, PA             | 5774          | COMPOSITE       |               | 100 U                         | A                     |
| New Angle Beveling                               | Hyde, PA                   | 4594          | COMPOSITE       |               | 100 U                         | A                     |
| New Century Glass & Aluminum LLC                 | Woodside, NY               | 5455          | COMPOSITE       |               | 400 U                         | A                     |
| NY Tempering LLC                                 | Maspeth, NY                | 4900          | COMPOSITE       |               | 800 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Rock Hill, SC              | 3277          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Hauppauge, NY              | 1547          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Los Angeles, CA            | 630           | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Calgary, AB                | 3265          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Langley, BC                | 3288          | COMP+CAN        |               | 750 U                         | A                     |

**Certified Products-By Product Type**

|                                                     |                                           | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------------|-------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>3/16 Inch Tempered Transparent Glass</i>         |                                           |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope®                         | Moorestown, NJ                            | 3182          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Miami, FL                                 | 3497          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Perrysburg, OH                            | 3235          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Shawnee, OK                               | 3097          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Fremont, CA                               | 3193          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Vancouver, WA                             | 3221          | COMP+CAN        | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Grand Prairie, TX                         | 3252          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Denver, CO                                | 3312          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Warrenton, MO                             | 3146          | COMP+CAN        | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Tampa, FL                                 | 3118          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Albertville, MN                           | 3106          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Covington, GA                             | 3331          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Phoenix, AZ                               | 3130          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Wright City, MO                           | 3139          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Houston, TX                               | 3158          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Indianapolis, IN                          | 2211          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Schofield, WI                             | 3169          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                         | Concord, ON                               | 3441          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope® Canada Inc.             | Pointe-aux-Trembles, QC                   | 1997          | COMP+CAN        | 100 U         | A                             |                       |
| Paragon Tempered Glass                              | Antwerp, OH                               | 2686          | COMPOSITE       | 500 U         | A                             |                       |
| PFG Glass                                           | Langley, BC                               | 3540          | COMP+CAN        | 750 U         | A                             |                       |
| PGT Industries                                      | Nokomis, FL                               | 2390          | COMPOSITE       | 285 U         | A                             |                       |
| PPG Inds. Inc.                                      | Carlisle, PA                              | 249           | COMP+CAN        | 400 U         | A                             |                       |
| PPG Inds. Inc.                                      | Barrie, ON                                | 5205          | COMP+CAN        | 800 U         | A                             |                       |
| PPG Inds., Inc.                                     | Wichita Falls, TX                         | 1112          | COMPOSITE       | 175 U         | A                             |                       |
| Prelco Inc.                                         | Saint-Jacques, NB                         | 4913          | COMP+CAN        | 800 U         | A                             |                       |
| Prelco Inc.                                         | Riviere-du-loup, QC                       | 2713          | COMP+CAN        | 800 U         | A                             |                       |
| Productos De Valor Agregado en Cristal S.A. de C.V. | San Juan Ixhuatepec, Tlalnepantla, Mexico | 4639          | COMPOSITE       | 175 U         | A                             |                       |
| Produits Verrier International Inc.                 | Montreal, Quebec                          | 5500          | COMP+CAN        | 100 U         | A                             |                       |
| PT Abebersa Pratama                                 | Bekasi, Indonesia                         | 3906          | COMPOSITE       | 125 U         | A                             |                       |
| Qinhuangdao Ampac Building Products Co., Ltd.       | Qinhuangdao Hebei, China                  | 5901          | COMPOSITE       | 100 U         | A                             |                       |
| Quaker Window Products, Inc.                        | Freeburg, MO                              | 2986          | COMP+CAN        | 150 U         | A                             |                       |
| Quality Glass & Mirror, Inc.                        | Mount Prospect, IL                        | 2981          | COMPOSITE       | 500 U         | A                             |                       |
| Ready Glass & Mirror, Inc.                          | Hialeah, FL                               | 3745          | COMPOSITE       | 285 U         | A                             |                       |
| RF Supply, Inc.                                     | Bradenton, FL                             | 5860          | COMPOSITE       | 285 U         | A                             |                       |
| Robover Inc.                                        | Quebec City, QC                           | 5201          | COMP+CAN        | 450 U         | A                             |                       |
| SAAND London                                        | London, ON Canada                         | 3979          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Ottawa                                        | Stittsville, ON                           | 4951          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Rexdale                                       | Rexdale, ON                               | 4997          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Toronto                                       | Toronto, ON Canada                        | 3023          | COMP+CAN        | 400 U         | A                             |                       |
| SCHOTT Gemtron - Sweetwater                         | Sweetwater, TN                            | 1201          | COMP+CAN        | 285 U         | A                             |                       |
| SCHOTT Gemtron (Canada) Corporation                 | Midland, ON Canada                        | 3636          | COMP+CAN        | 100 U         | A                             |                       |
| Shanghai SYP Engineering Glass                      | Shanghai, China                           | 4068          | COMPOSITE       | 125 U         | A                             |                       |
| Shower Doors & More Inc.                            | Fort Lauderdale, FL                       | 5756          | COMPOSITE       | 285 U         | A                             |                       |
| SIGCO, Inc.                                         | Westbrook, ME                             | 2963          | COMPOSITE       | 100 U         | A                             |                       |
| Simonton Windows                                    | Ellenboro, WV                             | 2888          | COMPOSITE       | 100 U         | A                             |                       |
| Simonton Windows                                    | Paris, IL                                 | 4978          | COMPOSITE       | 150 U         | A                             |                       |
| Sky Land Tempering Glass Corp                       | Long Island City, NY                      | 5467          | COMPOSITE       | 100 U         | A                             |                       |
| Solar Seal Massachusetts                            | South Easton, MA                          | 1871          | COMPOSITE       | 800 U         | A                             |                       |

***Certified Products-By Product Type***

|                                                                |                              | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------------------|------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/16 Inch Tempered Transparent Glass                           |                              |               |                 |               |                               |                       |
| Solar Seal Virginia                                            | Stafford, VA                 | 5723          | COMPOSITE       |               | 100 U                         | A                     |
| Strong Tempering Glass Industry LLC                            | Brooklyn, NY                 | 5939          | COMPOSITE       |               | 100 U                         | A                     |
| Swift Glass Co., Inc.                                          | Elmira Heights, NY           | 1556          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                                       | Syracuse, NY                 | 2957          | COMP+CAN        |               | 400 U                         | A                     |
| Tai Shan City Da Heng Art Glass Ltd.                           | Tai Shan, Guangdong, China   | 3789          | COMPOSITE       |               | 750 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                            | Dongguan, Guangdong, China   | 5487          | COMP+CAN        |               | 285 U                         | A                     |
| Taiwan Glass Industry Corp.                                    | Taipei, Taiwan, China        | 3887          | COMP+CAN        |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                             | Surgoinsville, TN            | 2549          | COMP+CAN        |               | 285 U                         | A                     |
| Tecnoglass S.A.                                                | Barranquilla, Columbia       | 1993          | COMP+CAN        |               | 285 U                         | A                     |
| Tempco Glass                                                   | Flushing, NY                 | 5010          | COMPOSITE       |               | 400 U                         | A                     |
| Texas Tempered, a Trulite Glass and Aluminum Solutions Company | Houston, TX                  | 4848          | COMPOSITE       |               | 175 U                         | A                     |
| TG Changjiang Glass Co., Ltd                                   | Kunshan City, Jiangsu, China | 5177          | COMP+CAN        |               | 750 U                         | A                     |
| Thermal Seal Insulating Glass                                  | Uxbridge, MA                 | 5733          | COMPOSITE       |               | 285 U                         | A                     |
| Thermo BSL                                                     | Riviere-du-loup, QC          | 4292          | COMP+CAN        |               | 800 U                         | A                     |
| Thermoseal Industries, LLC                                     | Gloucester City, NJ          | 4470          | COMPOSITE       |               | 100 U                         | A                     |
| Thompson I.G. LLC.                                             | Fenton, MI                   | 5304          | COMP+CAN        |               | 100 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd                 | Tianjin, China               | 4022          | COMPOSITE       |               | 100 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd.             | Tianjin, China               | 2890          | COMPOSITE       |               | 250 U                         | A                     |
| Tianjin SYP Engineering Glass Co., Ltd.                        | Tianjin, China               | 4075          | COMP+CAN        |               | 125 U                         | A                     |
| Tri-Star Glass, Inc.                                           | Tulsa, OK                    | 4006          | COMPOSITE       |               | 175 U                         | A                     |
| Triton Glass LLC                                               | Albemarle, NC                | 5691          | COMPOSITE       |               | 165 U                         | A                     |
| Triview Glass Industries                                       | City of Industry, CA         | 5040          | COMP+CAN        |               | 250 U                         | A                     |
| Troy Systems LLC                                               | Manassas, VA                 | 4918          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | San Antonio, TX              | 3839          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Indianapolis, IN             | 4922          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Youngsville, NC              | 5273          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Knoxville, TN                | 4152          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Fort Worth, TX               | 5398          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Houston, TX                  | 3925          | COMP+CAN        |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Columbus, OH                 | 4746          | COMPOSITE       |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Las Vegas, NV                | 4212          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | New Berlin, WI               | 5318          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Sacramento, CA               | 5809          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Vaughan, ON                  | 5508          | COMP+CAN        |               | 450 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | City of Industry, CA         | 4184          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Phoenix, AZ                  | 5702          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Atlanta, GA                  | 862           | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Cheswick, PA                 | 1785          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Fremont, CA                  | 5794          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Fresno, CA                   | 5822          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Orlando, FL                  | 5185          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Grenada, MS                  | 2788          | COMPOSITE       |               | 500 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Tulsa, OK                    | 5444          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Aurora, CO                   | 5879          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions - West                    | Salt Lake City, UT           | 5337          | COMPOSITE       |               | 125 U                         | A                     |
| Tweddell's Inc.                                                | Santa Ana, CA                | 4993          | COMP+CAN        |               | 250 U                         | A                     |
| U.S. Glass Distributors Inc.                                   | Enfield, CT                  | 5922          | COMP+CAN        |               | 400 U                         | A                     |
| United Plate Glass Co., Inc.                                   | Butler, PA                   | 2468          | COMPOSITE       |               | 800 U                         | A                     |

***Certified Products-By Product Type***

|                                                           |                              | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------------------|------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/16 Inch Tempered Transparent Glass                      |                              |               |                 |               |                               |                       |
| United Plate Glass Company of Charlotte                   | Lincolnton, NC               | 3949          | COMP+CAN        |               | 165 U                         | A                     |
| Unitex Glass Chengdu Co., Ltd                             | Chendu, Sichuan, China       | 5407          | ANSI ONLY       |               | 200 U                         | A                     |
| View Inc.                                                 | Olive Branch, MS             | 4727          | COMPOSITE       |               | 175 U                         | A                     |
| Viracon Inc.                                              | Statesboro, GA               | 2314          | COMP+CAN        |               | 165 U                         | A                     |
| Viracon Inc.                                              | St. George, UT               | 5582          | COMPOSITE       |               | 125 U                         | A                     |
| Viracon Inc.                                              | Owatonna, MN                 | 1403          | COMP+CAN        |               | 150 U                         | A                     |
| Virginia Glass Products Corp.                             | Martinsville, VA             | 12            | COMPOSITE       |               | 100 U                         | A                     |
| Vitra Vidrios Transformados SA de CV                      | Cortes, Honduras             | 4651          | COMPOSITE       |               | 285 U                         | A                     |
| Viwinco, Inc.                                             | Morgantown, PA               | 3405          | COMPOSITE       |               | 100 U                         | A                     |
| W. A. Wilson Inc.                                         | Wheeling, WV                 | 4170          | COMPOSITE       |               | 200 U                         | A                     |
| Wholesale Glass Dist.                                     | Memphis, TN                  | 4379          | COMPOSITE       |               | 150 U                         | A                     |
| Wisconsin Shower Door & Supply Corp                       | Menomonee Falls, WI          | 5587          | COMPOSITE       |               | 600 U                         | A                     |
| Wolverine Glass Products, Inc.                            | Grand Rapids, MI             | 5427          | COMP+CAN        |               | 200 U                         | A                     |
| WSD Glass, Inc.                                           | Winston-Salem, NC            | 4048          | COMPOSITE       |               | 165 U                         | A                     |
| Wuhan Aozheng Science and Technology Co., Ltd.            | Wuhan, Hubei, China          | 5238          | COMP+CAN        |               | 195 U                         | A                     |
| Xianning CSG Energy Conservation Glass Co., LTD.          | Xianning, Hebei              | 5979          | COMPOSITE       |               | 125 U                         | A                     |
| Xinyi Glass (Tianjin) Co. Ltd.                            | Tianjin, China               | 5532          | COMP+CAN        |               | 195 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                             | Dongguan, Guangdong, China   | 3085          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                          | Foshan, Guangdong, China     | 3737          | COMP+CAN        |               | 285 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co., LTD.                  | Foshan, Guangdong, China     | 5890          | COMPOSITE       |               | 285 U                         | A                     |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.              | Zhangjiagang, Jiangsu, China | 5739          | COMPOSITE       |               | 250 U                         | A                     |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd     | Hangzhou, Zhejiang, China    | 5077          | COMPOSITE       |               | 125 U                         | A                     |
| 1/4 Inch Tempered Transparent Glass                       |                              |               |                 |               |                               |                       |
| AGC Flat Glass North America                              | Greenland, TN                | 89            | COMP+CAN        |               | 285 U                         | A                     |
| AGC Flat Glass North America                              | Spring Hill, KS              | 1705          | COMP+CAN        |               | 500 U                         | A                     |
| AGC Glass Co. North America Building Products Fabrication | Boardman, OH                 | 5474          | COMP+CAN        |               | 800 U                         | A                     |
| AGC Glass Co. North America Building Products Fabrication | Quakertown, PA               | 2666          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Mirodan Industrie                                     | Heule, Belgium               | 5961          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Processing Teplice a.s.                               | Teplice, Czech Republic      | 6038          | COMPOSITE       |               | 285 U                         | A                     |
| AGNORA (Architectural Glass North America)                | Collingwood, ON Canada       | 4883          | COMP+CAN        |               | 450 U                         | A                     |
| Al Abbar Architectural Glass                              | Dubai, United Arab Emirates  | 3556          | COMPOSITE       |               | 100 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.                   | Charleston, SC               | 4331          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.                  | Orlando, FL                  | 5576          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.                  | Miramar, FL                  | 4717          | COMPOSITE       |               | 285 U                         | A                     |
| All Team Glass & Mirror, Ltd.                             | Woodbridge, ON Canada        | 1756          | COMPOSITE       |               | 450 U                         | A                     |
| Allglass Tempering Inc.                                   | Schiller Park, IL            | 5837          | COMPOSITE       |               | 600 U                         | A                     |
| Alumana Industries                                        | Doha, Qatar                  | 5420          | COMPOSITE       |               | 285 U                         | A                     |
| American Insulated Glass Inc.                             | Conley, GA                   | 5285          | COMPOSITE       |               | 165 U                         | A                     |
| American Shower Door                                      | Los Angeles, CA              | 3039          | COMPOSITE       |               | 250 U                         | A                     |
| Amsco Windows                                             | Salt Lake City, UT           | 2581          | COMPOSITE       |               | 750 U                         | A                     |
| Anthony International                                     | Madison, GA                  | 2353          | COMPOSITE       |               | 165 U                         | A                     |
| Anthony International                                     | San Fernando, CA             | 1000          | ANSI ONLY       |               | 250 U                         | A                     |

***Certified Products-By Product Type***

|                                            |                                    | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------|------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i> |                                    |               |                 |               |                               |                       |
| Architectural Glass Products, LLC.         | St. Louis, MO                      | 4573          | COMPOSITE       | 100 U         | A                             |                       |
| Arlene Stained Glass & Door                | Houston, TX                        | 3584          | COMPOSITE       | 175 U         | A                             |                       |
| Ascent Glass Products (Zhong Shan) Limited | Zhongshan City, Guangdong Province | 5867          | COMPOSITE       | 285 U         | A                             |                       |
| ATI Windows                                | Riverside, CA                      | 5638          | COMPOSITE       | 250 U         | A                             |                       |
| AVIC Sanxin Co. Ltd.                       | Shenzhen, Guangdong, China         | 5766          | COMPOSITE       | 285 U         | A                             |                       |
| Basco Engineered Products                  | Hamilton, OH                       | 3810          | ANSI ONLY       | 200 U         | A                             |                       |
| Beijing Wuhua Tianbao Glass Co.            | Beijing, China                     | 5560          | COMPOSITE       | 125 U         | A                             |                       |
| Berkowitz, J.E.                            | Pedricktown, NJ                    | 4837          | COMP+CAN        | 100 U         | A                             |                       |
| Best Deal Millworks                        | Baton Rouge, LA                    | 5683          | COMPOSITE       | 175 U         | A                             |                       |
| Blue Star Glass Inc.                       | North Brunswick, NJ                | 4519          | COMPOSITE       | 100 U         | A                             |                       |
| Bronco Industries, Inc.                    | Delta, BC                          | 5366          | COMP+CAN        | 195 U         | A                             |                       |
| Cameron Glass, Inc.                        | Broken Arrow, OK                   | 2455          | COMPOSITE       | 500 U         | A                             |                       |
| Cardinal CG                                | Waxahachie, TX                     | 2702          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal CG                                | Galt, CA                           | 2360          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal CG                                | Northfield, MN                     | 1988          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                | Moreno Valley, CA                  | 2296          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal CG                                | Buford, GA                         | 1924          | COMP+CAN        | 165 U         | A                             |                       |
| Cardinal CG                                | Loveland, CO                       | 3555          | COMPOSITE       | 500 U         | A                             |                       |
| Cardinal CG                                | Spring Green, WI                   | 2070          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal CG                                | Mazomanie, WI                      | 4783          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                | Tumwater, WA                       | 2010          | COMP+CAN        | 195 U         | A                             |                       |
| Cardinal CT                                | Utica, OH                          | 5479          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal CT                                | Adel, GA                           | 5364          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                | Mount Airy, NC                     | 5266          | COMP+CAN        | 165 U         | A                             |                       |
| Cardinal CT                                | Easton, PA                         | 5842          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal CT                                | Los Angeles, CA                    | 5991          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal CT - S                            | Irving TX                          | 5104          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal CT - W                            | Irving TX                          | 5248          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal FG                                | Durant, OK                         | 2912          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal IG                                | Casa Grande, AZ                    | 2881          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal IG                                | Mountain Top, PA                   | 3071          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                | Spring Green, WI                   | 1834          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                | Greenfield, IA                     | 1830          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal IG                                | Waxahachie, TX                     | 2331          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal IG                                | Vinton, VA                         | 2922          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                | Fremont, IN                        | 2179          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                | Tomah, WI                          | 2320          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal IG                                | Fargo, ND                          | 2232          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                | Hood River, OR                     | 2834          | COMP+CAN        | 195 U         | A                             |                       |
| Cardinal IG                                | Ocala, FL                          | 3508          | COMPOSITE       | 285 U         | A                             |                       |
| Cardinal LG                                | Amery, WI                          | 4841          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal Tempering                         | Louisville, KY                     | 3873          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal TG                                | Tomah, WI                          | 1807          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal TG                                | Chehalis, WA                       | 3459          | COMP+CAN        | 750 U         | A                             |                       |
| Carey Glass International                  | Nenagh, Co. Tipperary              | 5998          | COMP+CAN        | 100 U         | A                             |                       |
| Changshu Weier Glass Products Co. Ltd.     | Changshu, Jiangsu, China           | 5354          | COMPOSITE       | 125 U         | A                             |                       |
| Chicago Tempered Glass, Inc.               | Chicago, IL                        | 3088          | COMPOSITE       | 200 U         | A                             |                       |
| Clarus Glassboards                         | Fort Worth, TX                     | 5528          | COMPOSITE       | 175 U         | A                             |                       |
| Classy Glass Specialties Co., Ltd          | Dongguan, Guangdong                | 5159          | COMPOSITE       | 200 U         | A                             |                       |
| ClearEdge Glass                            | Baton Rouge, LA                    | 5311          | COMPOSITE       | 175 U         | A                             |                       |
| Clinton Glass Company                      | Knoxville, TN                      | 5606          | COMPOSITE       | 165 U         | A                             |                       |

***Certified Products-By Product Type***

|                                                 |                             | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i>      |                             |               |                 |               |                               |                       |
| Columbia Commercial Bldg Prod.                  | Rockwall, TX                | 4921          | COMP+CAN        |               | 175 U                         | A                     |
| Commercial Insulating Glass Co.                 | Sarasota, FL                | 1891          | COMPOSITE       |               | 285 30x76                     | A                     |
| Commercial Insulating Glass Co.                 | Cumberland City, TN         | 3808          | COMPOSITE       |               | 165 U                         | A                     |
| Consolidated Glass Corp.                        | New Castle, PA              | 2002          | COMP+CAN        |               | 285 U                         | A                     |
| Contour Industries, Inc.                        | Surgoinsville, TN           | 1677          | COMP+CAN        |               | 285 U                         | A                     |
| Contract Glass                                  | Wilmington, MA              | 4973          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                            | Valencia, CA                | 3467          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                 | Tuscaloosa, AL              | 1911          | COMPOSITE       |               | 165 U                         | A                     |
| Cristec Vipla SL                                | Balaguer, Lleida            | 5695          | COMPOSITE       |               | 100 U                         | A                     |
| Custom Glass Products Inc.                      | Weston, WI                  | 4002          | COMPOSITE       |               | 600 U                         | A                     |
| Custom Glass Solutions Millbury Corp.           | Millbury, OH                | 1577          | COMPOSITE       |               | 200 U                         | A                     |
| D3 Glass, LLC                                   | Fort Myers, FL              | 4795          | COMPOSITE       |               | 285 U                         | A                     |
| Dallas Flat Glass                               | Carrollton, TX              | 3701          | COMPOSITE       |               | 175 U                         | A                     |
| DDG Glass Manufacturing SDN BHD                 | Masai, Johor                | 5623          | COMP+CAN        |               | 125 U                         | A                     |
| Denver Glass Interiors, Inc.                    | Englewood, CO               | 3866          | COMPOSITE       |               | 175 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.        | Huzhou, Zhejiang, China     | 4146          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                               | Langley, BC Canada          | 4501          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                      | Van Buren, AR               | 3913          | COMPOSITE       |               | 175 U                         | A                     |
| Dlubak Corporation                              | Blairsville, PA             | 3017          | COMPOSITE       |               | 100 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.      | Dongguan, Guangdong, China  | 3934          | COMP+CAN        |               | 125 U                         | A                     |
| Dongguan Trillion Aluminum Glass Co., Ltd       | Dongguan, Guangdong, China  | 5862          | COMPOSITE       |               | 285 U                         | A                     |
| Downey Glass Industries, LLC                    | Pompano Beach, FL           | 2662          | COMPOSITE       |               | 285 U                         | A                     |
| Eckelt Glas GmbH                                | Steyr, Austria              | 2850          | COMPOSITE       |               | 100 U                         | A                     |
| EFCO Corporation                                | Monett, MO                  | 1902          | COMPOSITE       |               | 175 U                         | A                     |
| EFI                                             | Kernersville, NC            | 5026          | COMP+CAN        |               | 165 U                         | A                     |
| Engineered Glass Products, L.L.C.               | Chicago, IL                 | 2698          | COMPOSITE       |               | 200 30x72                     | A                     |
| Fairis C.A.                                     | Ambato, Tungurahua, Ecuador | 4427          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Distributors                         | Jacksonville, FL            | 3824          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Group Co., Ltd.                      | Jiaxing, Zhejiang           | 5522          | COMPOSITE       |               | 125 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory  | Foshan, Guangdong, China    | 4670          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. | Foshan, Guangdong, China    | 5389          | COMPOSITE       |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd   | Nan'an Fujian China         | 5091          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                       | Burnaby, BC                 | 4419          | COMP+CAN        |               | 750 U                         | A                     |
| General Glass                                   | Portland, OR                | 4034          | COMPOSITE       |               | 195 U                         | A                     |
| GGI Glass Distributors Corp.                    | Secaucus, NJ                | 2227          | COMPOSITE       |               | 100 U                         | A                     |
| Glas Works, Inc.                                | Dania Beach, FL             | 5019          | COMPOSITE       |               | 285 U                         | A                     |
| Glass and Mirror Craft                          | Wixom, MI                   | 4200          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Design of Miami, Inc.                     | Miami, FL                   | 3453          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                            | Stoneville, NC              | 2732          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Enterprises, Inc.                         | Bensalem, PA                | 4629          | COMPOSITE       |               | 100 U                         | A                     |
| GlassFab Tempering Services, Inc. Mariani Ct.   | Tracy, CA                   | 4891          | COMPOSITE       |               | 125 U                         | A                     |
| Glasshape NA L.P.                               | Auckland, New Zealand       | 5714          | COMPOSITE       |               | 195 U                         | A                     |
| Glasswerks LA, Inc. East                        | South Gate, CA              | 4806          | COMPOSITE       |               | 250 U                         | A                     |
| Glasswerks LA, Inc. West                        | South Gate CA               | 5482          | COMPOSITE       |               | 250 U                         | A                     |
| Glaz-Tech Industries, Inc.                      | Englewood, CO               | 2187          | COMPOSITE       |               | 250 U                         | A                     |
| Glenny Glass Co.                                | Milford, OH                 | 3844          | COMPOSITE       |               | 200 U                         | A                     |
| Global Security Glazing                         | Selma, AL                   | 4766          | COMP+CAN        |               | 285 U                         | A                     |



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|--------------------------------------------|-------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i> |                               |               |                 |               |                               |                       |
| Goldray Industries Ltd.                    | Calgary, AB Canada            | 2447          | COMP+CAN        | 195 U         | A                             |                       |
| Guangdong Golden Glass Technologies        | Shantou, Guangdong, China     | 3941          | COMP+CAN        | 125 U         | A                             |                       |
| Guardian Fabrication Inc.                  | Webster, MA                   | 662           | COMPOSITE       | 100 U         | A                             |                       |
| Guardian IG LLC                            | Sun Prairie, WI               | 5643          | COMP+CAN        | 600 U         | A                             |                       |
| Guardian Industries Corp.                  | Kingsburg, CA                 | 971           | COMP+CAN        | 125 U         | A                             |                       |
| Guardian Industries Corp.                  | Galax, VA                     | 4607          | COMP+CAN        | 285 U         | A                             |                       |
| Guardian Industries Corp.                  | Corsicana, TX                 | 1251          | COMP+CAN        | 175 U         | A                             |                       |
| Guardian Industries Corp.                  | Geneva, NY                    | 2262          | COMPOSITE       | 400 U         | A                             |                       |
| Guardian Industries Corp.                  | DeWitt, IA                    | 2023          | COMPOSITE       | 500 U         | A                             |                       |
| Guardian Industries Corp.                  | Richburg, SC                  | 1633          | COMPOSITE       | 285 U         | A                             |                       |
| Guardian Industries Corp.                  | Carleton, MI                  | 131           | COMPOSITE       | 200 U         | A                             |                       |
| Gulf Glass Industries, LLC                 | Sharjah, United Arab Emirates | 4796          | COMPOSITE       | 100 U         | A                             |                       |
| Industrial Tempering Glass                 | Brooklyn, NY                  | 5565          | COMPOSITE       | 100 U         | A                             |                       |
| Inkan Ltd                                  | Brampton, ON                  | 5135          | COMP+CAN        | 800 U         | A                             |                       |
| Innovative Glass of America, Inc.          | Dallas, NC                    | 3862          | COMPOSITE       | 165 U         | A                             |                       |
| Insulite Glass Co., Inc.                   | Olathe, KS                    | 3715          | COMPOSITE       | 150 U         | A                             |                       |
| Integral Seal Mfg. Inc.                    | Concord, ON Canada            | 4684          | COMP+CAN        | 100 U         | A                             |                       |
| Interglass Corp                            | Miami, FL                     | 5033          | COMPOSITE       | 285 U         | A                             |                       |
| Intex Glass (Xiamen) Co., Ltd.             | Xiamen, Fujian, China         | 2575          | COMP+CAN        | 200 U         | A                             |                       |
| Intigral                                   | Walton Hills, OH              | 2055          | COMP+CAN        | 200 U         | A                             |                       |
| Jiangmen SYP Engineering Glass             | Jiangmen, Guangdong, China    | 4305          | COMP+CAN        | 125 U         | A                             |                       |
| Jiangyin Mingyang Glass Production         | Jiangyin City, Jiangsu        | 5779          | ANSI ONLY       | 125 U         | A                             |                       |
| Jiaxing Joinbath Corporation               | Jiaxing, Zhejiang, China      | 5709          | COMPOSITE       | 125 U         | A                             |                       |
| JM Glass                                   | Hayward, CA                   | 4929          | COMPOSITE       | 125 U         | A                             |                       |
| JYC Glass Co. Ltd.                         | Foshan, Guangdong, China      | 3960          | COMP+CAN        | 125 U         | A                             |                       |
| Kawneer - (Cranberry) a division of Alcoa  | Cranberry Township, PA        | 2490          | COMPOSITE       | 100 U         | A                             |                       |
| Kensington Glass Arts                      | Ijamsville, MD                | 5973          | COMPOSITE       | 100 U         | A                             |                       |
| Kibing Special Glass Zhangzhou Co., Ltd.   | Zhangzhou, Fujian             | 5379          | COMPOSITE       | 125 U         | A                             |                       |
| Kohler Company                             | Union City, TN                | 1982          | COMPOSITE       | 165 U         | A                             |                       |
| M Industria S.A. DE C.V.                   | Merida, Yucatan Mexico        | 5410          | COMPOSITE       | 285 U         | A                             |                       |
| M&M Tempering Inc.                         | Loganville, GA                | 4280          | COMPOSITE       | 165 U         | A                             |                       |
| Maryland Glass & Mirror                    | Baltimore, MD                 | 4320          | COMPOSITE       | 100 U         | A                             |                       |
| McGrory Glass                              | Paulsboro, NJ                 | 4813          | COMPOSITE       | 100 U         | A                             |                       |
| Mega Tempering                             | Brooklyn, NY                  | 4299          | COMPOSITE       | 100 U         | A                             |                       |
| Mercer Glass Fab LLC                       | Trenton, NJ                   | 4254          | COMPOSITE       | 100 U         | A                             |                       |
| Midwest Glass Fabricators Inc.             | Highland, MI                  | 6030          | COMP+CAN        | 200 U         | A                             |                       |
| Milgard Tempering                          | Dixon, CA                     | 2842          | COMPOSITE       | 125 U         | A                             |                       |
| Multiver                                   | Vanier, QC                    | 2499          | COMPOSITE       | 400 U         | A                             |                       |
| Nashville Tempered Glass Corp.             | Nashville, TN                 | 1417          | COMP+CAN        | 285 U         | A                             |                       |
| Nashville Tempered Glass LLC               | Hendersonville, TN            | 2693          | COMP+CAN        | 285 U         | A                             |                       |
| New Angle Beveling                         | Clearfield, PA                | 5773          | COMPOSITE       | 100 U         | A                             |                       |
| New Angle Beveling                         | Hyde, PA                      | 4595          | COMPOSITE       | 100 U         | A                             |                       |
| New Century Glass & Aluminum LLC           | Woodside, NY                  | 5456          | COMPOSITE       | 400 U         | A                             |                       |
| NY Tempering LLC                           | Maspeth, NY                   | 4901          | COMPOSITE       | 800 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                | Fremont, CA                   | 3194          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                | Grand Prairie, TX             | 3253          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                | Miami, FL                     | 3498          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                | Warrenton, MO                 | 3147          | COMP+CAN        | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                | Perrysburg, OH                | 3236          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                | Los Angeles, CA               | 514           | COMP+CAN        | 125 U         | A                             |                       |

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|-----------------------------------------------------|-------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 1/4 Inch Tempered Transparent Glass                 |                                           |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope®                         | Shawnee, OK                               | 3098          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Vancouver, WA                             | 3222          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Concord, ON                               | 3442          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Rock Hill, SC                             | 3278          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Denver, CO                                | 3313          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Langley, BC                               | 3289          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Hauppauge, NY                             | 1548          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Houston, TX                               | 3159          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Phoenix, AZ                               | 3131          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Moorestown, NJ                            | 3183          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Calgary, AB                               | 3266          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Schofield, WI                             | 3170          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Covington, GA                             | 3332          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Wright City, MO                           | 3140          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Albertville, MN                           | 3107          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Indianapolis, IN                          | 2212          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Tampa, FL                                 | 3119          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope® Canada Inc.             | Pointe-aux-Trembles, QC                   | 2543          | COMP+CAN        |               | 100 U                         | A                     |
| Paragon Tempered Glass                              | Antwerp, OH                               | 2687          | COMPOSITE       |               | 500 U                         | A                     |
| Patio Enclosures                                    | Macedonia, OH                             | 3015          | COMPOSITE       |               | 200 U                         | A                     |
| PFG Glass                                           | Langley, BC                               | 3541          | COMP+CAN        |               | 750 U                         | A                     |
| PGT Industries                                      | Nokomis, FL                               | 2391          | COMPOSITE       |               | 285 U                         | A                     |
| PPG Inds. Inc.                                      | Barrie, ON                                | 5206          | COMP+CAN        |               | 800 U                         | A                     |
| PPG Inds. Inc.                                      | Carlisle, PA                              | 382           | COMP+CAN        |               | 400 U                         | A                     |
| PPG Inds., Inc.                                     | Wichita Falls, TX                         | 1113          | COMPOSITE       |               | 175 U                         | A                     |
| Prelco Inc.                                         | Saint-Jacques, NB                         | 4914          | COMP+CAN        |               | 800 U                         | A                     |
| Prelco Inc.                                         | Riviere-du-loup, QC                       | 2015          | COMP+CAN        |               | 800 U                         | A                     |
| Productos De Valor Agregado en Cristal S.A. de C.V. | San Juan Ixhuatepec, Tlalnepantla, Mexico | 4645          | COMPOSITE       |               | 175 U                         | A                     |
| Produits Verrier International Inc.                 | Montreal, Quebec                          | 5501          | COMP+CAN        |               | 100 U                         | A                     |
| Qingdao Apis Glass Industries Co. Ltd.              | Qingdao, Shandong China                   | 5529          | COMPOSITE       |               | 285 U                         | A                     |
| Quaker Window Products, Inc.                        | Freeburg, MO                              | 3485          | COMP+CAN        |               | 150 U                         | A                     |
| Quality Glass & Mirror, Inc.                        | Mount Prospect, IL                        | 2982          | COMPOSITE       |               | 500 U                         | A                     |
| Quest Window Systems                                | Mississauga, ON                           | 5719          | COMP+CAN        |               | 450 U                         | A                     |
| Ready Glass & Mirror, Inc.                          | Hialeah, FL                               | 3746          | COMPOSITE       |               | 285 U                         | A                     |
| Reem Emirates Aluminum & Glass                      | Abu Dhabi, United Arab Emirates           | 4675          | COMPOSITE       |               | 150 U                         | A                     |
| RF Supply, Inc.                                     | Bradenton, FL                             | 4225          | COMPOSITE       |               | 285 U                         | A                     |
| Rizhao Huaye Glass Co., Ltd.                        | Rizhao, Shandong                          | 5568          | COMP+CAN        |               | 285 U                         | A                     |
| Robover Inc.                                        | Quebec City, QC                           | 5202          | COMP+CAN        |               | 450 U                         | A                     |
| SAAND London                                        | London, ON Canada                         | 3980          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Ottawa                                        | Stittsville, ON                           | 4952          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Rexdale                                       | Rexdale, ON                               | 4998          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Toronto                                       | Toronto, ON Canada                        | 2484          | COMP+CAN        |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                         | Sweetwater, TN                            | 1477          | COMP+CAN        |               | 285 U                         | A                     |
| SCHOTT Gemtron (Canada) Corporation                 | Midland, ON Canada                        | 3637          | COMP+CAN        |               | 100 U                         | A                     |
| Shanghai SYP Engineering Glass                      | Shanghai, China                           | 4069          | COMPOSITE       |               | 125 U                         | A                     |
| Shenzhen Kai Tai Glass Co., LTD                     | Shenzhen City, GuangDong                  | 5436          | COMPOSITE       |               | 285 U                         | A                     |
| Shower Doors & More Inc.                            | Fort Lauderdale, FL                       | 5757          | COMPOSITE       |               | 285 U                         | A                     |
| SIGCO, Inc.                                         | Westbrook, ME                             | 2964          | COMPOSITE       |               | 100 U                         | A                     |
| Sky Land Tempering Glass Corp                       | Long Island City, NY                      | 5468          | COMPOSITE       |               | 100 U                         | A                     |
| Solar Seal Connecticut                              | Hamden, CT                                | 4523          | COMPOSITE       |               | 400 U                         | A                     |

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|------------------------------------------------|------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i>     |                              |               |                 |               |                               |                       |
| Solar Seal Massachusetts                       | South Easton, MA             | 1035          | COMPOSITE       | 800 U         | A                             |                       |
| Solar Seal Virginia                            | Stafford, VA                 | 5724          | COMPOSITE       | 100 U         | A                             |                       |
| Strong Tempering Glass Industry LLC            | Brooklyn, NY                 | 5940          | COMPOSITE       | 100 U         | A                             |                       |
| Sunglas Technics Co., Ltd.                     | Foshan City, Guangdong       | 5676          | COMP+CAN        | 125 U         | A                             |                       |
| Swift Glass Co., Inc.                          | Elmira Heights, NY           | 1557          | COMPOSITE       | 400 U         | A                             |                       |
| Syracuse Glass Co., Inc.                       | Syracuse, NY                 | 2656          | COMP+CAN        | 400 U         | A                             |                       |
| Tacoma Glass Mfg. Inc.                         | Burlington, WA               | 5165          | COMPOSITE       | 195 U         | A                             |                       |
| Tacoma Glass Mfg. Inc.                         | Lakewood, WA                 | 4730          | COMPOSITE       | 195 U         | A                             |                       |
| Tai Sheng (Dong Guan) Glass Co.,Ltd            | Dongguan, Guangdong, China   | 4872          | COMP+CAN        | 285 U         | A                             |                       |
| Taiwan Glass Industry Corp.                    | Taipei, Taiwan, China        | 3888          | COMP+CAN        | 750 U         | A                             |                       |
| Techni-Glass, Inc.                             | Surgoinsville, TN            | 2975          | COMP+CAN        | 285 U         | A                             |                       |
| Tecnoglass S.A.                                | Barranquilla, Columbia       | 1994          | COMP+CAN        | 285 U         | A                             |                       |
| Tempco Glass                                   | Flushing, NY                 | 5011          | COMPOSITE       | 400 U         | A                             |                       |
| Templados Del Centro SA DE C.V.                | Irapuato, Guanajuato         | 6018          | COMPOSITE       | 175 U         | A                             |                       |
| TG Changjiang Glass Co., Ltd                   | Kunshan City, Jiangsu, China | 5178          | COMP+CAN        | 750 U         | A                             |                       |
| The Original Frameless Shower Door             | Coral Springs, FL            | 4661          | COMPOSITE       | 285 U         | A                             |                       |
| Thermal Seal Insulating Glass                  | Uxbridge, MA                 | 5734          | COMPOSITE       | 285 U         | A                             |                       |
| Thermo BSL                                     | Riviere-du-loup, QC          | 4293          | COMP+CAN        | 800 U         | A                             |                       |
| Thermoseal Industries, LLC                     | Gloucester City, NJ          | 4471          | COMPOSITE       | 100 U         | A                             |                       |
| Thompson I.G. LLC.                             | Fenton, MI                   | 5305          | COMP+CAN        | 100 U         | A                             |                       |
| Tianjin CSG Energy Conservation Glass Co., Ltd | Tianjin, China               | 4023          | COMPOSITE       | 100 U         | A                             |                       |
| Tianjin SYP Engineering Glass Co., Ltd.        | Tianjin, China               | 4076          | COMP+CAN        | 125 U         | A                             |                       |
| Tri-Star Glass, Inc.                           | Tulsa, OK                    | 4007          | COMPOSITE       | 175 U         | A                             |                       |
| Tri-Star Glass, Inc.                           | Houston, Texas               | 5762          | COMPOSITE       | 175 U         | A                             |                       |
| Tri-Star Glass, Inc.                           | Grand Prairie, TX            | 5109          | COMPOSITE       | 175 U         | A                             |                       |
| Triton Glass LLC                               | Albemarle, NC                | 5692          | COMPOSITE       | 165 U         | A                             |                       |
| Triview Glass Industries                       | City of Industry, CA         | 5041          | COMP+CAN        | 250 U         | A                             |                       |
| Troy Systems LLC                               | Manassas, VA                 | 4061          | COMPOSITE       | 100 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Knoxville, TN                | 4153          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Grenada, MS                  | 2789          | COMPOSITE       | 500 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Youngsville, NC              | 5274          | COMPOSITE       | 165 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Orlando, FL                  | 5184          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | San Antonio, TX              | 3326          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Columbus, OH                 | 4747          | COMPOSITE       | 200 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Las Vegas, NV                | 4213          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Fremont, CA                  | 5795          | COMPOSITE       | 125 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Cheswick, PA                 | 1786          | COMPOSITE       | 100 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Fort Worth, TX               | 5399          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | New Berlin, WI               | 5877          | COMPOSITE       | 150 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Fresno, CA                   | 5823          | COMPOSITE       | 125 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Aurora, CO                   | 5343          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Phoenix, AZ                  | 5746          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Indianapolis, IN             | 4923          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Houston, TX                  | 5483          | COMP+CAN        | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Vaughan, ON                  | 5509          | COMP+CAN        | 450 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Sacramento, CA               | 5810          | COMPOSITE       | 125 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Atlanta, GA                  | 863           | COMPOSITE       | 165 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | Tulsa, OK                    | 5445          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions           | City of Industry, CA         | 4185          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions - West    | Salt Lake City, UT           | 5338          | COMPOSITE       | 125 U         | A                             |                       |

**Certified Products-By Product Type**

|                                                       |                                    | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------|------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i>            |                                    |               |                 |               |                               |                       |
| Tweddell's Inc.                                       | Santa Ana, CA                      | 5385          | COMP+CAN        |               | 250 U                         | A                     |
| U.S. Glass Distributors Inc.                          | Enfield, CT                        | 5923          | COMP+CAN        |               | 400 U                         | A                     |
| United Plate Glass Co., Inc.                          | Butler, PA                         | 2469          | COMPOSITE       |               | 800 U                         | A                     |
| United Plate Glass Company of Charlotte               | Lincolnton, NC                     | 3950          | COMP+CAN        |               | 165 U                         | A                     |
| Unitex Glass Chengdu Co., Ltd                         | Chendu, Sichuan, China             | 5408          | ANSI ONLY       |               | 200 U                         | A                     |
| Upstate Glass Tempering Inc.                          | Middletown, NY                     | 5157          | COMPOSITE       |               | 400 U                         | A                     |
| Vidrio Bisel S.A. de C.V.                             | Santa Catarina, Nuevo Leon, Mexico | 4966          | COMPOSITE       |               | 175 U                         | A                     |
| Vidrios Dellorto S.A.                                 | Santiago, Chile                    | 5966          | COMPOSITE       |               | 285 U                         | A                     |
| Vidrios el Castillo SC de RL de CV                    | Escobedo, Nuevo Leon, Mexico       | 5840          | COMP+CAN        |               | 175 U                         | A                     |
| View Inc.                                             | Olive Branch, MS                   | 4728          | COMPOSITE       |               | 175 U                         | A                     |
| Viracon Inc.                                          | Statesboro, GA                     | 2310          | COMP+CAN        |               | 165 U                         | A                     |
| Viracon Inc.                                          | Owatonna, MN                       | 1404          | COMP+CAN        |               | 150 U                         | A                     |
| Viracon Inc.                                          | St. George, UT                     | 5555          | COMPOSITE       |               | 125 U                         | A                     |
| Virginia Glass Products Corp.                         | Martinsville, VA                   | 14            | COMPOSITE       |               | 100 U                         | A                     |
| Vitemex                                               | Reynosa, Tamaulipas Mexico         | 5393          | COMPOSITE       |               | 175 U                         | A                     |
| Vitra Vidrios Transformados SA de CV                  | Cortes, Honduras                   | 4652          | COMPOSITE       |               | 285 U                         | A                     |
| W. A. Wilson Inc.                                     | Wheeling, WV                       | 4171          | COMPOSITE       |               | 200 U                         | A                     |
| White Aluminum Enterprises LLC                        | Abu Dhabi, United Arab Emirates    | 4598          | COMPOSITE       |               | 150 U                         | A                     |
| Wholesale Glass Dist.                                 | Memphis, TN                        | 4380          | COMPOSITE       |               | 150 U                         | A                     |
| Wisconsin Shower Door & Supply Corp                   | Menomonee Falls, WI                | 5588          | COMPOSITE       |               | 600 U                         | A                     |
| Wolverine Glass Products, Inc.                        | Grand Rapids, MI                   | 5428          | COMP+CAN        |               | 200 U                         | A                     |
| WSD Glass, Inc.                                       | Winston-Salem, NC                  | 4049          | COMPOSITE       |               | 165 U                         | A                     |
| Wuhan Aozheng Science and Technology Co., Ltd.        | Wuhan, Hubei, China                | 5239          | COMP+CAN        |               | 195 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.               | Wujiang City,                      | 5251          | COMPOSITE       |               | 125 U                         | A                     |
| Xianning CSG Energy Conservation Glass Co., LTD.      | Xianning, Hebei                    | 6004          | COMPOSITE       |               | 125 U                         | A                     |
| Xinyi Glass (Tianjin) Co. Ltd.                        | Tianjin, China                     | 5533          | COMP+CAN        |               | 195 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                         | Dongguan, Guangdong, China         | 3053          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                      | Foshan, Guangdong, China           | 3738          | COMP+CAN        |               | 285 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co., LTD.              | Foshan, Guangdong, China           | 5891          | COMPOSITE       |               | 285 U                         | A                     |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.          | Zhangjiagang, Jiangsu, China       | 5740          | COMPOSITE       |               | 250 U                         | A                     |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd | Hangzhou, Zhejiang, China          | 5078          | COMPOSITE       |               | 125 U                         | A                     |
| <i>5/16 Inch Tempered Transparent Glass</i>           |                                    |               |                 |               |                               |                       |
| AGC Flat Glass North America                          | Greenland, TN                      | 4046          | COMP+CAN        |               | 285 U                         | A                     |
| Al Abbar Architectural Glass                          | Dubai, United Arab Emirates        | 3557          | COMPOSITE       |               | 100 U                         | A                     |
| All Team Glass & Mirror, Ltd.                         | Woodbridge, ON Canada              | 2790          | COMPOSITE       |               | 450 U                         | A                     |
| Alumana Industries                                    | Doha, Qatar                        | 5421          | COMPOSITE       |               | 285 U                         | A                     |
| Anthony International                                 | Madison, GA                        | 5234          | COMPOSITE       |               | 165 U                         | A                     |
| Ascent Glass Products (Zhong Shan) Limited            | Zhongshan City, Guangdong Province | 5868          | COMPOSITE       |               | 285 U                         | A                     |
| AVIC Sanxin Co. Ltd.                                  | Shenzhen, Guangdong, China         | 5767          | COMPOSITE       |               | 285 U                         | A                     |
| Beijing Wuhua Tianbao Glass Co.                       | Beijing, China                     | 5561          | COMPOSITE       |               | 125 U                         | A                     |
| Cardinal CG                                           | Northfield, MN                     | 4775          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal CG                                           | Spring Green, WI                   | 5281          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal IG                                           | Greenfield, IA                     | 5435          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal LG                                           | Amery, WI                          | 4842          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal TG                                           | Tomah, WI                          | 4881          | COMP+CAN (IN)   |               | 600 U                         | A                     |

***Certified Products-By Product Type***

|                                                  |                             | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/16 Inch Tempered Transparent Glass</i>      |                             |               |                 |               |                               |                       |
| Carey Glass International                        | Nenagh, Co. Tipperary       | 5999          | COMP+CAN        |               | 100 U                         | A                     |
| Changshu Xingfu Glass Building Material Co., LTD | Changshu, Jiangsu, China    | 5151          | COMP+CAN        |               | 165 U                         | A                     |
| Classy Glass Specialties Co., Ltd                | Dongguan, Guangdong         | 5160          | COMPOSITE       |               | 200 U                         | A                     |
| Consolidated Glass Corp.                         | New Castle, PA              | 3635          | COMP+CAN        |               | 285 U                         | A                     |
| Contour Industries, Inc.                         | Surgoinsville, TN           | 4701          | COMP+CAN        |               | 285 U                         | A                     |
| Contractors Wardrobe                             | Valencia, CA                | 3468          | COMP+CAN        |               | 250 U                         | A                     |
| Cristec Vipla SL                                 | Balaguer, Lleida            | 5696          | COMPOSITE       |               | 100 U                         | A                     |
| DDG Glass Manufacturing SDN BHD                  | Masai, Johor                | 5624          | COMP+CAN        |               | 125 U                         | A                     |
| Diamond Sea Glaze                                | Langley, BC Canada          | 4502          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                       | Van Buren, AR               | 4839          | COMPOSITE       |               | 175 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.       | Dongguan, Guangdong, China  | 3935          | COMP+CAN        |               | 125 U                         | A                     |
| Dongguan Dongfa Glass Product Co., Ltd           | Dongguan, Guangdong, China  | 4132          | COMP+CAN        |               | 285 U                         | A                     |
| Downey Glass Industries, LLC                     | Pompano Beach, FL           | 5554          | COMPOSITE       |               | 285 U                         | A                     |
| Eckelt Glas GmbH                                 | Steyr, Austria              | 2851          | COMPOSITE       |               | 100 U                         | A                     |
| EFCO Corporation                                 | Monett, MO                  | 4154          | COMPOSITE       |               | 175 U                         | A                     |
| EFI                                              | Kernersville, NC            | 5209          | COMP+CAN        |               | 165 U                         | A                     |
| Fairis C.A.                                      | Ambato, Tungurahua, Ecuador | 4428          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Group Co., Ltd.                       | Jiaxing, Zhejiang           | 5523          | COMPOSITE       |               | 125 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory   | Foshan, Guangdong, China    | 4671          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.  | Foshan, Guangdong, China    | 5390          | COMPOSITE       |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd    | Nan'an Fujian China         | 5092          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                        | Burnaby, BC                 | 5219          | COMP+CAN        |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                     | Secaucus, NJ                | 4248          | COMPOSITE       |               | 100 U                         | A                     |
| Glass Dynamics, Inc.                             | Stoneville, NC              | 5259          | COMPOSITE       |               | 285 U                         | A                     |
| GnT Glass Co., Ltd.                              | Dongguan, Guangdong, China  | 5788          | COMP+CAN        |               | 400 U                         | A                     |
| Guangdong Golden Glass Technologies              | Shantou, Guangdong, China   | 3942          | COMP+CAN        |               | 125 U                         | A                     |
| Guardian Industries Corp.                        | Geneva, NY                  | 3672          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                        | Richburg, SC                | 2382          | COMPOSITE       |               | 285 U                         | A                     |
| Guardian Industries Corp.                        | DeWitt, IA                  | 2024          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Industries Corp.                        | Galax, VA                   | 4608          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                        | Corsicana, TX               | 1826          | COMP+CAN        |               | 175 U                         | A                     |
| Inkan Ltd                                        | Brampton, ON                | 5136          | COMP+CAN        |               | 800 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.                   | Xiamen, Fujian, China       | 3025          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass                   | Jiangmen, Guangdong, China  | 4306          | COMP+CAN        |               | 125 U                         | A                     |
| Jiangyin Mingyang Glass Production               | Jiangyin City, Jiangsu      | 5780          | ANSI ONLY       |               | 125 U                         | A                     |
| Jiaxing Joinbath Corporation                     | Jiaxing, Zhejiang, China    | 5710          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                               | Foshan, Guangdong, China    | 3961          | COMP+CAN        |               | 125 U                         | A                     |
| Kawneer - (Cranberry) a division of Alcoa        | Cranberry Township, PA      | 2678          | COMPOSITE       |               | 100 U                         | A                     |
| Kibing Special Glass Zhangzhou Co., Ltd.         | Zhangzhou, Fujian           | 5380          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                                   | Union City, TN              | 4668          | COMPOSITE       |               | 165 U                         | A                     |
| Mercer Glass Fab LLC                             | Trenton, NJ                 | 4530          | COMPOSITE       |               | 100 U                         | A                     |
| Multiver                                         | Vanier, QC                  | 5226          | COMPOSITE       |               | 400 U                         | A                     |
| Nashville Tempered Glass Corp.                   | Nashville, TN               | 5729          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Calgary, AB                 | 3267          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Perrysburg, OH              | 4443          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Warrenton, MO               | 3796          | COMP+CAN        |               | 500 U                         | A                     |

***Certified Products-By Product Type***

|                                                     |                                           | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------------|-------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/16 Inch Tempered Transparent Glass</i>         |                                           |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope®                         | Hauppauge, NY                             | 4180          | COMP+CAN        | (IN)          | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Rock Hill, SC                             | 4787          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Schofield, WI                             | 3171          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Fremont, CA                               | 5387          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Albertville, MN                           | 4882          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Los Angeles, CA                           | 4400          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Wright City, MO                           | 3141          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Langley, BC                               | 3290          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Concord, ON                               | 3443          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Vancouver, WA                             | 3223          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope® Canada Inc.             | Pointe-aux-Trembles, QC                   | 2884          | COMP+CAN        |               | 100 U                         | A                     |
| PFG Glass                                           | Langley, BC                               | 3542          | COMP+CAN        |               | 750 U                         | A                     |
| PPG Inds., Inc.                                     | Wichita Falls, TX                         | 3577          | COMPOSITE       |               | 175 U                         | A                     |
| Prelco Inc.                                         | Riviere-du-loup, QC                       | 2751          | COMP+CAN        |               | 800 U                         | A                     |
| Prelco Inc.                                         | Saint-Jacques, NB                         | 4915          | COMP+CAN        |               | 800 U                         | A                     |
| Productos De Valor Agregado en Cristal S.A. de C.V. | San Juan Ixhuatepec, Tlalnepantla, Mexico | 4788          | COMPOSITE       |               | 175 U                         | A                     |
| Reem Emirates Aluminum & Glass                      | Abu Dhabi, United Arab Emirates           | 4676          | COMPOSITE       |               | 150 U                         | A                     |
| Rizhao Huaye Glass Co., Ltd.                        | Rizhao, Shandong                          | 5569          | COMP+CAN        |               | 285 U                         | A                     |
| SAAND Toronto                                       | Toronto, ON Canada                        | 4356          | COMP+CAN        |               | 400 U                         | A                     |
| SCHOTT Gemtron (Canada) Corporation                 | Midland, ON Canada                        | 6020          | COMP+CAN        |               | 100 U                         | A                     |
| Shanghai SYP Engineering Glass                      | Shanghai, China                           | 4070          | COMPOSITE       |               | 125 U                         | A                     |
| Shenzhen Kai Tai Glass Co., LTD                     | Shenzhen City, Guangdong                  | 5437          | COMPOSITE       |               | 285 U                         | A                     |
| SIGCO, Inc.                                         | Westbrook, ME                             | 5213          | COMPOSITE       |               | 100 U                         | A                     |
| Sunglas Technics Co., Ltd.                          | Foshan City, Guangdong                    | 5677          | COMP+CAN        |               | 125 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                 | Dongguan, Guangdong, China                | 4873          | COMP+CAN        |               | 285 U                         | A                     |
| Taiwan Glass Industry Corp.                         | Taipei, Taiwan, China                     | 3889          | COMP+CAN        |               | 750 U                         | A                     |
| Tecnoglass S.A.                                     | Barranquilla, Columbia                    | 2134          | COMP+CAN        |               | 285 U                         | A                     |
| TG Changjiang Glass Co., Ltd                        | Kunshan City, Jiangsu, China              | 5179          | COMP+CAN        |               | 750 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd      | Tianjin, China                            | 4024          | COMPOSITE       |               | 100 U                         | A                     |
| Tianjin Northglass Industrial Technical Co., Ltd    | Tianjin, China                            | 5220          | COMPOSITE       |               | 175 U                         | A                     |
| Tianjin SYP Engineering Glass Co., Ltd.             | Tianjin, China                            | 4077          | COMP+CAN        |               | 125 U                         | A                     |
| Triview Glass Industries                            | City of Industry, CA                      | 5042          | COMP+CAN        |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | New Berlin, WI                            | 5320          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Fremont, CA                               | 5796          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Fresno, CA                                | 5824          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Cheswick, PA                              | 3495          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Sacramento, CA                            | 5811          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Youngsville, NC                           | 5518          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Vaughan, ON                               | 5510          | COMP+CAN        |               | 450 U                         | A                     |
| U.S. Glass Distributors Inc.                        | Enfield, CT                               | 5924          | COMP+CAN        |               | 400 U                         | A                     |
| Vidrios Dellorto S.A.                               | Santiago, Chile                           | 5967          | COMPOSITE       |               | 285 U                         | A                     |
| Viracon Inc.                                        | St. George, UT                            | 5556          | COMPOSITE       |               | 125 U                         | A                     |
| Viracon Inc.                                        | Owatonna, MN                              | 3689          | COMP+CAN        |               | 150 U                         | A                     |
| Viracon Inc.                                        | Statesboro, GA                            | 4720          | COMP+CAN        |               | 165 U                         | A                     |
| Vitra Vidrios Transformados SA de CV                | Cortes, Honduras                          | 4653          | COMPOSITE       |               | 285 U                         | A                     |
| White Aluminum Enterprises LLC                      | Abu Dhabi, United Arab Emirates           | 4597          | COMPOSITE       |               | 150 U                         | A                     |
| Wolverine Glass Products, Inc.                      | Grand Rapids, MI                          | 5429          | COMP+CAN        |               | 200 U                         | A                     |

***Certified Products-By Product Type***

|                                                       |                                   | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------|-----------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/16 Inch Tempered Transparent Glass</i>           |                                   |               |                 |               |                               |                       |
| Wuhan Aozheng Science and Technology Co., Ltd.        | Wuhan, Hubei, China               | 5240          | COMP+CAN        | 195 U         | A                             |                       |
| Wujiang Golden Glass Technologies, Ltd.               | Wujiang City,                     | 5252          | COMPOSITE       | 125 U         | A                             |                       |
| Xianning CSG Energy Conservation Glass Co., LTD.      | Xianning, Hebei                   | 6005          | COMPOSITE       | 125 U         | A                             |                       |
| Xinyi Glass (Tianjin) Co. Ltd.                        | Tianjin, China                    | 5534          | COMP+CAN        | 195 U         | A                             |                       |
| Xinyi Group (Glass) Co., Ltd.                         | Dongguan, Guangdong, China        | 4648          | COMP+CAN        | 125 U         | A                             |                       |
| Yao Xiang Glass Product Co. Ltd.                      | Foshan, Guangdong, China          | 3739          | COMP+CAN        | 285 U         | A                             |                       |
| Yong Feng Tai Foshan City Glas Co., LTD.              | Foshan, Guangdong, China          | 5892          | COMPOSITE       | 285 U         | A                             |                       |
| Zhangjiagang City Daming Glass Product Co., Ltd       | Zhangjiagang City, Jiangsu        | 5464          | COMP+CAN        | 285 U         | A                             |                       |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd | Hangzhou, Zhejiang, China         | 5079          | COMPOSITE       | 125 U         | A                             |                       |
| <i>3/8 Inch Tempered Transparent Glass</i>            |                                   |               |                 |               |                               |                       |
| AGC Flat Glass North America                          | Greenland, TN                     | 90            | COMP+CAN        | 285 U         | A                             |                       |
| AGC Mirodan Industrie                                 | Heule, Belgium                    | 5962          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Processing Teplice a.s.                           | Teplice, Czech Republic           | 6043          | COMPOSITE       | 285 U         | A                             |                       |
| AGNORA (Architectural Glass North America)            | Collingwood, ON Canada            | 4885          | COMP+CAN        | 450 U         | A                             |                       |
| Al Abbar Architectural Glass                          | Dubai, United Arab Emirates       | 3558          | COMPOSITE       | 100 U         | A                             |                       |
| Aldora Aluminum and Glass Products Inc.               | Charleston, SC                    | 4335          | COMPOSITE       | 285 U         | A                             |                       |
| Aldora Aluminum and Glass Products, Inc.              | Miramar, FL                       | 4718          | COMPOSITE       | 285 U         | A                             |                       |
| Aldora Aluminum and Glass Products, Inc.              | Orlando, FL                       | 5579          | COMPOSITE       | 285 U         | A                             |                       |
| All Team Glass & Mirror, Ltd.                         | Woodbridge, ON Canada             | 1757          | COMPOSITE       | 450 U         | A                             |                       |
| Allglass Tempering Inc.                               | Schiller Park, IL                 | 5838          | COMPOSITE       | 600 U         | A                             |                       |
| Alumana Industries                                    | Doha, Qatar                       | 5422          | COMPOSITE       | 285 U         | A                             |                       |
| Aluminum Technology Auxiliary Industries              | Doha, Qatar                       | 5084          | COMPOSITE       | 125 U         | A                             |                       |
| American Insulated Glass Inc.                         | Conley, GA                        | 5286          | COMPOSITE       | 165 U         | A                             |                       |
| American Shower Door                                  | Los Angeles, CA                   | 3040          | COMPOSITE       | 250 U         | A                             |                       |
| Anthony International                                 | Madison, GA                       | 2453          | COMPOSITE       | 165 U         | A                             |                       |
| Ascent Glass Products (Zhong Shan) Limited            | Zhongsan City, Guangdong Province | 5869          | COMPOSITE       | 285 U         | A                             |                       |
| AVIC Sanxin Co. Ltd.                                  | Shenzhen, Guangdong, China        | 5768          | COMPOSITE       | 285 U         | A                             |                       |
| Basco Engineered Products                             | Hamilton, OH                      | 3811          | COMPOSITE       | 200 U         | A                             |                       |
| Beijing Wuhua Tianbao Glass Co.                       | Beijing, China                    | 5562          | COMPOSITE       | 125 U         | A                             |                       |
| Berkowitz, J.E.                                       | Pedricktown, NJ                   | 2646          | COMP+CAN        | 100 U         | A                             |                       |
| Blue Star Glass Inc.                                  | North Brunswick, NJ               | 4520          | COMPOSITE       | 100 U         | A                             |                       |
| Bronco Industries, Inc.                               | Delta, BC                         | 5367          | COMP+CAN        | 195 U         | A                             |                       |
| Cameron Glass, Inc.                                   | Broken Arrow, OK                  | 2032          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal CG                                           | Northfield, MN                    | 4137          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal LG                                           | Amery, WI                         | 4843          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal Tempering                                    | Louisville, KY                    | 3874          | COMPOSITE       | 175 U         | A                             |                       |
| Carey Glass International                             | Nenagh, Co. Tipperary             | 6000          | COMP+CAN        | 100 U         | A                             |                       |
| Changshu Xingfu Glass Building Material Co., LTD      | Changshu, Jiangsu, China          | 5152          | COMP+CAN        | 165 U         | A                             |                       |
| Chicago Tempered Glass, Inc.                          | Chicago, IL                       | 3089          | COMPOSITE       | 200 U         | A                             |                       |
| Classy Glass Specialties Co., Ltd                     | Dongguan, Guangdong               | 5161          | COMPOSITE       | 200 U         | A                             |                       |
| Clinton Glass Company                                 | Knoxville, TN                     | 5607          | COMPOSITE       | 165 U         | A                             |                       |
| Columbia Commercial Bldg Prod.                        | Rockwall, TX                      | 5615          | COMP+CAN        | 175 U         | A                             |                       |

***Certified Products-By Product Type***

|                                                 |                               | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------|-------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>3/8 Inch Tempered Transparent Glass</i>      |                               |               |                 |               |                               |                       |
| Consolidated Glass Corp.                        | New Castle, PA                | 2003          | COMP+CAN        |               | 285 U                         | A                     |
| Contour Industries, Inc.                        | Surgoinsville, TN             | 4702          | COMP+CAN        |               | 285 U                         | A                     |
| Contract Glass                                  | Wilmington, MA                | 4974          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                            | Valencia, CA                  | 3469          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                 | Tuscaloosa, AL                | 2144          | COMPOSITE       |               | 165 U                         | A                     |
| Cristec Vipla SL                                | Balaguer, Lleida              | 5697          | COMPOSITE       |               | 100 U                         | A                     |
| D3 Glass, LLC                                   | Fort Myers, FL                | 4792          | COMPOSITE       |               | 285 U                         | A                     |
| Dallas Flat Glass                               | Carrollton, TX                | 4566          | COMPOSITE       |               | 175 U                         | A                     |
| DDG Glass Manufacturing SDN BHD                 | Masai, Johor                  | 5625          | COMP+CAN        |               | 125 U                         | A                     |
| Denver Glass Interiors, Inc.                    | Englewood, CO                 | 3867          | COMPOSITE       |               | 175 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.        | Huzhou, Zhejiang, China       | 4147          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                               | Langley, BC Canada            | 4503          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                      | Van Buren, AR                 | 3914          | COMPOSITE       |               | 175 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.      | Dongguan, Guangdong, China    | 3936          | COMP+CAN        |               | 125 U                         | A                     |
| Dongguan Dongfa Glass Product Co., Ltd          | Dongguan, Guangdong, China    | 4125          | COMP+CAN        |               | 285 U                         | A                     |
| Downey Glass Industries, LLC                    | Pompano Beach, FL             | 2663          | COMPOSITE       |               | 285 U                         | A                     |
| Eckelt Glas GmbH                                | Steyr, Austria                | 2852          | COMPOSITE       |               | 100 U                         | A                     |
| EFI                                             | Kernersville, NC              | 5210          | COMP+CAN        |               | 165 U                         | A                     |
| Fairis C.A.                                     | Ambato, Tungurahua, Ecuador   | 4429          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Distributors                         | Jacksonville, FL              | 3825          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Group Co., Ltd.                      | Jiaxing, Zhejiang             | 5524          | COMPOSITE       |               | 125 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory  | Foshan, Guangdong, China      | 4672          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. | Foshan, Guangdong, China      | 5391          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                       | Burnaby, BC                   | 4420          | COMP+CAN        |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                    | Secaucus, NJ                  | 2282          | COMPOSITE       |               | 100 U                         | A                     |
| Glas Works, Inc.                                | Dania Beach, FL               | 5020          | COMPOSITE       |               | 285 U                         | A                     |
| Glass and Mirror Craft                          | Wixom, MI                     | 5598          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Design of Miami, Inc.                     | Miami, FL                     | 3454          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                            | Stoneville, NC                | 2729          | COMPOSITE       |               | 285 U                         | A                     |
| GlassFab Tempering Services, Inc. Mariani Ct.   | Tracy, CA                     | 4892          | COMPOSITE       |               | 125 U                         | A                     |
| Glasshape NA L.P.                               | Auckland, New Zealand         | 5715          | COMPOSITE       |               | 195 U                         | A                     |
| Glasswerks LA, Inc. East                        | South Gate, CA                | 5883          | COMPOSITE       |               | 250 U                         | A                     |
| Glaz-Tech Industries, Inc.                      | Englewood, CO                 | 5143          | COMPOSITE       |               | 250 U                         | A                     |
| Glenny Glass Co.                                | Milford, OH                   | 3845          | COMPOSITE       |               | 200 U                         | A                     |
| Global Security Glazing                         | Selma, AL                     | 4767          | COMP+CAN        |               | 285 U                         | A                     |
| GnT Glass Co., Ltd.                             | Dongguan, Guangdong, China    | 5789          | COMP+CAN        |               | 400 U                         | A                     |
| Goldray Industries Ltd.                         | Calgary, AB Canada            | 2448          | COMP+CAN        |               | 195 U                         | A                     |
| Guangdong Golden Glass Technologies             | Shantou, Guangdong, China     | 3943          | COMP+CAN        |               | 125 U                         | A                     |
| Guardian Fabrication Inc.                       | Webster, MA                   | 471           | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Industries Corp.                       | Corsicana, TX                 | 1253          | COMP+CAN        |               | 175 U                         | A                     |
| Guardian Industries Corp.                       | Richburg, SC                  | 1634          | COMPOSITE       |               | 285 U                         | A                     |
| Guardian Industries Corp.                       | Galax, VA                     | 4609          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                       | Geneva, NY                    | 2519          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                       | DeWitt, IA                    | 2545          | COMPOSITE       |               | 500 U                         | A                     |
| Gulf Glass Industries, LLC                      | Sharjah, United Arab Emirates | 4797          | COMPOSITE       |               | 100 U                         | A                     |
| Industrial Tempering Glass                      | Brooklyn, NY                  | 3418          | COMPOSITE       |               | 100 U                         | A                     |
| Inkan Ltd                                       | Brampton, ON                  | 5137          | COMP+CAN        |               | 800 U                         | A                     |



***Certified Products-By Product Type***

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|-------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Transparent Glass       |                            |               |                 |               |                               |                       |
| Innovative Glass of America, Inc.         | Dallas, NC                 | 3863          | COMPOSITE       |               | 165 U                         | A                     |
| Insulite Glass Co., Inc.                  | Olathe, KS                 | 3716          | COMPOSITE       |               | 150 U                         | A                     |
| Interglass Corp                           | Miami, FL                  | 5034          | COMPOSITE       |               | 285 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.            | Xiamen, Fujian, China      | 2576          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen Ligo Glass Manufacture Co., Ltd. | Guangdong, China           | 5873          | COMPOSITE       |               | 750 U                         | A                     |
| Jiangmen SYP Engineering Glass            | Jiangmen, Guangdong, China | 4307          | COMP+CAN        |               | 125 U                         | A                     |
| Jin Yao Chang Tempered Glass Co., Ltd     | Guangdong                  | 5684          | COMPOSITE       |               | 250 U                         | A                     |
| JM Glass                                  | Hayward, CA                | 4930          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                        | Foshan, Guangdong, China   | 3962          | COMP+CAN        |               | 125 U                         | A                     |
| Kensington Glass Arts                     | Ijamsville, MD             | 5974          | COMPOSITE       |               | 100 U                         | A                     |
| Kibing Special Glass Zhangzhou Co., Ltd.  | Zhangzhou, Fujian          | 5381          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                            | Union City, TN             | 2434          | COMPOSITE       |               | 165 U                         | A                     |
| M Industria S.A. DE C.V.                  | Merida, Yucatan Mexico     | 5411          | COMPOSITE       |               | 285 U                         | A                     |
| M&M Tempering Inc.                        | Loganville, GA             | 4281          | COMPOSITE       |               | 165 U                         | A                     |
| Maryland Glass & Mirror                   | Baltimore, MD              | 4321          | COMPOSITE       |               | 100 U                         | A                     |
| McGrory Glass                             | Paulsboro, NJ              | 4814          | COMPOSITE       |               | 100 U                         | A                     |
| Mega Tempering                            | Brooklyn, NY               | 4300          | COMPOSITE       |               | 100 U                         | A                     |
| Mercer Glass Fab LLC                      | Trenton, NJ                | 4255          | COMPOSITE       |               | 100 U                         | A                     |
| Midwest Glass Fabricators Inc.            | Highland, MI               | 6031          | COMP+CAN        |               | 200 U                         | A                     |
| Multiver                                  | Vanier, QC                 | 5227          | COMPOSITE       |               | 400 U                         | A                     |
| Nashville Tempered Glass Corp.            | Nashville, TN              | 2494          | COMP+CAN        |               | 285 U                         | A                     |
| Nashville Tempered Glass LLC              | Hendersonville, TN         | 2694          | COMP+CAN        |               | 285 U                         | A                     |
| New Angle Beveling                        | Clearfield, PA             | 5775          | COMPOSITE       |               | 100 U                         | A                     |
| New Angle Beveling                        | Hyde, PA                   | 4591          | COMPOSITE       |               | 100 U                         | A                     |
| New Century Glass & Aluminum LLC          | Woodside, NY               | 5457          | COMPOSITE       |               | 400 U                         | A                     |
| NY Tempering LLC                          | Maspeth, NY                | 4902          | COMPOSITE       |               | 800 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Indianapolis, IN           | 2213          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Covington, GA              | 3333          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Houston, TX                | 3160          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Miami, FL                  | 3499          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Fremont, CA                | 3195          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Langley, BC                | 3291          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Albertville, MN            | 3108          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Phoenix, AZ                | 3132          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Grand Prairie, TX          | 3255          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Concord, ON                | 3444          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Vancouver, WA              | 3224          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Shawnee, OK                | 3099          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Los Angeles, CA            | 515           | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Wright City, MO            | 3142          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Hauppauge, NY              | 1549          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Rock Hill, SC              | 3279          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Denver, CO                 | 3314          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Perrysburg, OH             | 3237          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Warrenton, MO              | 3148          | COMP+CAN        |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Calgary, AB                | 3268          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Moorestown, NJ             | 3184          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Schofield, WI              | 3172          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Tampa, FL                  | 3120          | COMP+CAN        |               | 285 U                         | A                     |

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|----------------------------------------------------------------|-------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>3/8 Inch Tempered Transparent Glass</i>                     |                                           |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope® Canada Inc.                        | Pointe-aux-Trembles, QC                   | 2544          | COMP+CAN        | 100 U         | A                             |                       |
| Paragon Tempered Glass                                         | Antwerp, OH                               | 2688          | COMPOSITE       | 500 U         | A                             |                       |
| PPG Glass                                                      | Langley, BC                               | 3543          | COMP+CAN        | 750 U         | A                             |                       |
| PPG Inds., Inc.                                                | Wichita Falls, TX                         | 3578          | COMPOSITE       | 175 U         | A                             |                       |
| Prelco Inc.                                                    | Saint-Jacques, NB                         | 4916          | COMP+CAN        | 800 U         | A                             |                       |
| Prelco Inc.                                                    | Riviere-du-loup, QC                       | 2381          | COMP+CAN        | 800 U         | A                             |                       |
| Productos De Valor Agregado en Cristal S.A. de C.V.            | San Juan Ixhuatepec, Tlalnepantla, Mexico | 4640          | COMPOSITE       | 175 U         | A                             |                       |
| Produits Verrier International Inc.                            | Montreal, Quebec                          | 5502          | COMP+CAN        | 100 U         | A                             |                       |
| Qingdao Apis Glass Industries Co. Ltd.                         | Qingdao, Shandong China                   | 5530          | COMPOSITE       | 285 U         | A                             |                       |
| Quality Glass & Mirror, Inc.                                   | Mount Prospect, IL                        | 2983          | COMPOSITE       | 500 U         | A                             |                       |
| Ready Glass & Mirror, Inc.                                     | Hialeah, FL                               | 3747          | COMPOSITE       | 285 U         | A                             |                       |
| Reem Emirates Aluminum & Glass                                 | Abu Dhabi, United Arab Emirates           | 4677          | COMPOSITE       | 150 U         | A                             |                       |
| RF Supply, Inc.                                                | Bradenton, FL                             | 4226          | COMPOSITE       | 285 U         | A                             |                       |
| Rizhao Huaye Glass Co., Ltd.                                   | Rizhao, Shandong                          | 5570          | COMP+CAN        | 285 U         | A                             |                       |
| Robover Inc.                                                   | Quebec City, QC                           | 5763          | COMP+CAN        | 450 U         | A                             |                       |
| SAAND London                                                   | London, ON Canada                         | 3981          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Ottawa                                                   | Stittsville, ON                           | 4953          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Rexdale                                                  | Rexdale, ON                               | 4999          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Toronto                                                  | Toronto, ON Canada                        | 4357          | COMP+CAN        | 400 U         | A                             |                       |
| SCHOTT Gemtron (Canada) Corporation                            | Midland, ON Canada                        | 6021          | COMP+CAN        | 100 U         | A                             |                       |
| Shanghai SYP Engineering Glass                                 | Shanghai, China                           | 4071          | COMPOSITE       | 125 U         | A                             |                       |
| Shenzhen Kai Tai Glass Co., LTD                                | Shenzhen City, Guangdong                  | 5438          | COMPOSITE       | 285 U         | A                             |                       |
| Shower Doors & More Inc.                                       | Fort Lauderdale, FL                       | 5758          | COMPOSITE       | 285 U         | A                             |                       |
| SIGCO, Inc.                                                    | Westbrook, ME                             | 2965          | COMPOSITE       | 100 U         | A                             |                       |
| Sky Land Tempering Glass Corp                                  | Long Island City, NY                      | 5469          | COMPOSITE       | 100 U         | A                             |                       |
| Solar Seal Massachusetts                                       | South Easton, MA                          | 1036          | COMPOSITE       | 800 U         | A                             |                       |
| Solar Seal Virginia                                            | Stafford, VA                              | 5725          | COMPOSITE       | 100 U         | A                             |                       |
| Strong Tempering Glass Industry LLC                            | Brooklyn, NY                              | 5942          | COMPOSITE       | 100 U         | A                             |                       |
| Sunglas Technics Co., Ltd.                                     | Foshan City, Guangdong                    | 5678          | COMP+CAN        | 125 U         | A                             |                       |
| Swift Glass Co., Inc.                                          | Elmira Heights, NY                        | 1558          | COMPOSITE       | 400 U         | A                             |                       |
| Syracuse Glass Co., Inc.                                       | Syracuse, NY                              | 2958          | COMP+CAN        | 400 U         | A                             |                       |
| Tacoma Glass Mfg. Inc.                                         | Lakewood, WA                              | 4731          | COMPOSITE       | 195 U         | A                             |                       |
| Tacoma Glass Mfg. Inc.                                         | Burlington, WA                            | 5166          | COMPOSITE       | 195 U         | A                             |                       |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                            | Dongguan, Guangdong, China                | 5486          | COMP+CAN        | 285 U         | A                             |                       |
| Taiwan Glass Industry Corp.                                    | Taipei, Taiwan, China                     | 3890          | COMP+CAN        | 750 U         | A                             |                       |
| Techni-Glass, Inc.                                             | Surgoinsville, TN                         | 3062          | COMP+CAN        | 285 U         | A                             |                       |
| Tecnoglass S.A.                                                | Barranquilla, Columbia                    | 1995          | COMP+CAN        | 285 U         | A                             |                       |
| Tempco Glass                                                   | Flushing, NY                              | 5012          | COMPOSITE       | 400 U         | A                             |                       |
| Texas Tempered, a Trulite Glass and Aluminum Solutions Company | Houston, TX                               | 4850          | COMPOSITE       | 175 U         | A                             |                       |
| The Original Frameless Shower Door                             | Coral Springs, FL                         | 4662          | COMPOSITE       | 285 U         | A                             |                       |
| Thermal Seal Insulating Glass                                  | Uxbridge, MA                              | 5735          | COMPOSITE       | 285 U         | A                             |                       |
| Thompson I.G. LLC.                                             | Fenton, MI                                | 5298          | COMP+CAN        | 100 U         | A                             |                       |
| Tianjin CSG Energy Conservation Glass Co., Ltd                 | Tianjin, China                            | 4025          | COMPOSITE       | 100 U         | A                             |                       |
| Tianjin SYP Engineering Glass Co., Ltd.                        | Tianjin, China                            | 4078          | COMP+CAN        | 125 U         | A                             |                       |
| Tri-Star Glass, Inc.                                           | Tulsa, OK                                 | 4008          | COMPOSITE       | 175 U         | A                             |                       |
| Triton Glass LLC                                               | Albemarle, NC                             | 5693          | COMPOSITE       | 165 U         | A                             |                       |
| Triview Glass Industries                                       | City of Industry, CA                      | 5043          | COMP+CAN        | 250 U         | A                             |                       |
| Troy Systems LLC                                               | Manassas, VA                              | 4062          | COMPOSITE       | 100 U         | A                             |                       |

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|--------------------------------------------------|------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Transparent Glass              |                                    |               |                 |               |                               |                       |
| Trulite Glass and Aluminum Solutions             | Youngsville, NC                    | 5275          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | City of Industry, CA               | 4186          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Orlando, FL                        | 5186          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Vaughan, ON                        | 5511          | COMP+CAN        |               | 450 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Knoxville, TN                      | 4158          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | San Antonio, TX                    | 3327          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Houston, TX                        | 3927          | COMP+CAN        |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Tulsa, OK                          | 5446          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Las Vegas, NV                      | 4214          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | New Berlin, WI                     | 5321          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Fremont, CA                        | 5797          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Fresno, CA                         | 5825          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Fort Worth, TX                     | 5400          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Indianapolis, IN                   | 4754          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Grenada, MS                        | 2840          | COMPOSITE       |               | 500 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Atlanta, GA                        | 865           | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Sacramento, CA                     | 5812          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Aurora, CO                         | 5344          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Phoenix, AZ                        | 5703          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Cheswick, PA                       | 1787          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions - West      | Salt Lake City, UT                 | 5339          | COMPOSITE       |               | 125 U                         | A                     |
| Tweddell's Inc.                                  | Santa Ana, CA                      | 5386          | COMP+CAN        |               | 250 U                         | A                     |
| U.S. Glass Distributors Inc.                     | Enfield, CT                        | 5925          | COMP+CAN        |               | 400 U                         | A                     |
| United Plate Glass Co., Inc.                     | Butler, PA                         | 2470          | COMPOSITE       |               | 800 U                         | A                     |
| United Plate Glass Company of Charlotte          | Lincolnton, NC                     | 3951          | COMP+CAN        |               | 165 U                         | A                     |
| Unitex Glass Chengdu Co., Ltd                    | Chendu, Sichuan, China             | 5414          | ANSI ONLY       |               | 200 U                         | A                     |
| Upstate Glass Tempering Inc.                     | Middletown, NY                     | 4927          | COMPOSITE       |               | 400 U                         | A                     |
| Vidrio Bisel S.A. de C.V.                        | Santa Catarina, Nuevo Leon, Mexico | 4967          | COMPOSITE       |               | 175 U                         | A                     |
| Vidrios Dellorto S.A.                            | Santiago, Chile                    | 5968          | COMPOSITE       |               | 285 U                         | A                     |
| Vidrios el Castillo SC de RL de CV               | Escobedo, Nuevo Leon, Mexico       | 5781          | COMP+CAN        |               | 175 U                         | A                     |
| Viracon Inc.                                     | Owatonna, MN                       | 1508          | COMP+CAN        |               | 150 U                         | A                     |
| Viracon Inc.                                     | Statesboro, GA                     | 2311          | COMP+CAN        |               | 165 U                         | A                     |
| Viracon Inc.                                     | St. George, UT                     | 5557          | COMPOSITE       |               | 125 U                         | A                     |
| Virginia Glass Products Corp.                    | Martinsville, VA                   | 93            | COMPOSITE       |               | 100 U                         | A                     |
| Vitemex                                          | Reynosa, Tamaulipas Mexico         | 5394          | COMPOSITE       |               | 175 U                         | A                     |
| Vitra Vidrios Transformados SA de CV             | Cortes, Honduras                   | 4654          | COMPOSITE       |               | 285 U                         | A                     |
| W. A. Wilson Inc.                                | Wheeling, WV                       | 4172          | COMPOSITE       |               | 200 U                         | A                     |
| Wholesale Glass Dist.                            | Memphis, TN                        | 4381          | COMPOSITE       |               | 150 U                         | A                     |
| Wisconsin Shower Door & Supply Corp              | Menomonee Falls, WI                | 5589          | COMPOSITE       |               | 600 U                         | A                     |
| Wolverine Glass Products, Inc.                   | Grand Rapids, MI                   | 5430          | COMP+CAN        |               | 200 U                         | A                     |
| WSD Glass, Inc.                                  | Winston-Salem, NC                  | 4052          | COMPOSITE       |               | 165 U                         | A                     |
| Wuhan Aozheng Science and Technology Co., Ltd.   | Wuhan, Hubei, China                | 5241          | COMP+CAN        |               | 195 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.          | Wujiang City,                      | 5253          | COMPOSITE       |               | 125 U                         | A                     |
| Xianning CSG Energy Conservation Glass Co., LTD. | Xianning, Hebei                    | 5980          | COMPOSITE       |               | 125 U                         | A                     |
| Xinyi Glass (Tianjin) Co. Ltd.                   | Tianjin, China                     | 5535          | COMP+CAN        |               | 195 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                    | Dongguan, Guangdong, China         | 3054          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                 | Foshan, Guangdong, China           | 3740          | COMP+CAN        |               | 285 U                         | A                     |

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|-------------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Transparent Glass                   |                             |               |                 |               |                               |                       |
| Yong Feng Tai Foshan City Glas Co., LTD.              | Foshan, Guangdong, China    | 5893          | COMPOSITE       |               | 285 U                         | A                     |
| Zhangjiagang City Daming Glass Product Co., Ltd       | Zhangjiagang City, Jiangsu  | 5465          | COMP+CAN        |               | 285 U                         | A                     |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd | Hangzhou, Zhejiang, China   | 5080          | COMPOSITE       |               | 125 U                         | A                     |
| 1/2 Inch Tempered Transparent Glass                   |                             |               |                 |               |                               |                       |
| AGNORA (Architectural Glass North America)            | Collingwood, ON Canada      | 4884          | COMP+CAN        |               | 450 U                         | A                     |
| Al Abbar Architectural Glass                          | Dubai, United Arab Emirates | 4590          | COMPOSITE       |               | 100 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.               | Charleston, SC              | 4336          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.              | Orlando, FL                 | 5577          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.              | Miramar, FL                 | 4719          | COMPOSITE       |               | 285 U                         | A                     |
| All Team Glass & Mirror, Ltd.                         | Woodbridge, ON Canada       | 1758          | COMPOSITE       |               | 450 U                         | A                     |
| Allglass Tempering Inc.                               | Schiller Park, IL           | 5839          | COMPOSITE       |               | 600 U                         | A                     |
| Alumana Industries                                    | Doha, Qatar                 | 5423          | COMPOSITE       |               | 285 U                         | A                     |
| Aluminum Technology Auxiliary Industries              | Doha, Qatar                 | 5212          | COMPOSITE       |               | 125 U                         | A                     |
| American Insulated Glass Inc.                         | Conley, GA                  | 5287          | COMPOSITE       |               | 165 U                         | A                     |
| American Shower Door                                  | Los Angeles, CA             | 3041          | COMPOSITE       |               | 250 U                         | A                     |
| AVIC Sanxin Co. Ltd.                                  | Shenzhen, Guangdong, China  | 5769          | COMPOSITE       |               | 285 U                         | A                     |
| Basco Engineered Products                             | Hamilton, OH                | 3812          | COMPOSITE       |               | 200 U                         | A                     |
| Beijing Wuhua Tianbao Glass Co.                       | Beijing, China              | 5563          | COMPOSITE       |               | 125 U                         | A                     |
| Berkowitz, J.E.                                       | Pedricktown, NJ             | 1991          | COMP+CAN        |               | 100 U                         | A                     |
| Blue Star Glass Inc.                                  | North Brunswick, NJ         | 4521          | COMPOSITE       |               | 100 U                         | A                     |
| Bronco Industries, Inc.                               | Delta, BC                   | 5368          | COMP+CAN        |               | 195 U                         | A                     |
| Cameron Glass, Inc.                                   | Broken Arrow, OK            | 2033          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal LG                                           | Amery, WI                   | 4844          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal Tempering                                    | Louisville, KY              | 3875          | COMPOSITE       |               | 175 U                         | A                     |
| Chicago Tempered Glass, Inc.                          | Chicago, IL                 | 3090          | COMPOSITE       |               | 200 U                         | A                     |
| Classy Glass Specialties Co., Ltd                     | Dongguan, Guangdong         | 5162          | COMPOSITE       |               | 200 U                         | A                     |
| Clinton Glass Company                                 | Knoxville, TN               | 5608          | COMPOSITE       |               | 165 U                         | A                     |
| Columbia Commercial Bldg Prod.                        | Rockwall, TX                | 5616          | COMP+CAN        |               | 175 U                         | A                     |
| Consolidated Glass Corp.                              | New Castle, PA              | 2004          | COMP+CAN        |               | 285 U                         | A                     |
| Contract Glass                                        | Wilmington, MA              | 4975          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                                  | Valencia, CA                | 3470          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                       | Tuscaloosa, AL              | 2145          | COMPOSITE       |               | 165 U                         | A                     |
| Cristec Vipla SL                                      | Balaguer, Lleida            | 5698          | COMPOSITE       |               | 100 U                         | A                     |
| D3 Glass, LLC                                         | Fort Myers, FL              | 4793          | COMPOSITE       |               | 285 U                         | A                     |
| Dallas Flat Glass                                     | Carrollton, TX              | 4567          | COMPOSITE       |               | 175 U                         | A                     |
| DDG Glass Manufacturing SDN BHD                       | Masai, Johor                | 5626          | COMP+CAN        |               | 125 U                         | A                     |
| Denver Glass Interiors, Inc.                          | Englewood, CO               | 3868          | COMPOSITE       |               | 175 U                         | A                     |
| Diamond Sea Glaze                                     | Langley, BC Canada          | 4504          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                            | Van Buren, AR               | 3915          | COMPOSITE       |               | 175 U                         | A                     |
| Dlubak Corporation                                    | Blairsville, PA             | 3018          | COMPOSITE       |               | 100 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.            | Dongguan, Guangdong, China  | 3937          | COMP+CAN        |               | 125 U                         | A                     |
| Dongguan Dongfa Glass Product Co., Ltd                | Dongguan, Guangdong, China  | 4126          | COMP+CAN        |               | 285 U                         | A                     |
| Downey Glass Industries, LLC                          | Pompano Beach, FL           | 2664          | COMPOSITE       |               | 285 U                         | A                     |
| EFI                                                   | Kernersville, NC            | 5211          | COMP+CAN        |               | 165 U                         | A                     |
| Flat Glass Distributors                               | Jacksonville, FL            | 3826          | COMPOSITE       |               | 285 U                         | A                     |

***Certified Products-By Product Type***

|                                                    |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/2 Inch Tempered Transparent Glass</i>         |                            |               |                 |               |                               |                       |
| Flat Glass Group Co., Ltd.                         | Jiaxing, Zhejiang          | 5525          | COMPOSITE       |               | 125 U                         | A                     |
| Foshan Nanhai Gangsheng<br>Tempered Glass Factory  | Foshan, Guangdong, China   | 5549          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia<br>Glass Co. Ltd. | Foshan, Guangdong, China   | 5392          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                          | Burnaby, BC                | 4421          | COMP+CAN        |               | 750 U                         | A                     |
| General Glass                                      | Portland, OR               | 5751          | COMPOSITE       |               | 195 U                         | A                     |
| GGI Glass Distributors Corp.                       | Secaucus, NJ               | 2228          | COMPOSITE       |               | 100 U                         | A                     |
| Glas Works, Inc.                                   | Dania Beach, FL            | 5021          | COMPOSITE       |               | 285 U                         | A                     |
| Glass and Mirror Craft                             | Wixom, MI                  | 4202          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Design of Miami, Inc.                        | Miami, FL                  | 3607          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                               | Stoneville, NC             | 2733          | COMPOSITE       |               | 285 U                         | A                     |
| GlassFab Tempering Services, Inc.<br>Mariani Ct.   | Tracy, CA                  | 4890          | COMPOSITE       |               | 125 U                         | A                     |
| Glasshape NA L.P.                                  | Auckland, New Zealand      | 5716          | COMPOSITE       |               | 195 U                         | A                     |
| Glasswerks LA, Inc. East                           | South Gate, CA             | 5884          | COMPOSITE       |               | 250 U                         | A                     |
| Glaz-Tech Industries, Inc.                         | Englewood, CO              | 2189          | COMPOSITE       |               | 250 U                         | A                     |
| Glenny Glass Co.                                   | Milford, OH                | 3846          | COMPOSITE       |               | 200 U                         | A                     |
| Global Security Glazing                            | Selma, AL                  | 4768          | COMP+CAN        |               | 285 U                         | A                     |
| GnT Glass Co., Ltd.                                | Dongguan, Guangdong, China | 5790          | COMP+CAN        |               | 400 U                         | A                     |
| Goldray Industries Ltd.                            | Calgary, AB Canada         | 2449          | COMP+CAN        |               | 195 U                         | A                     |
| Guangdong Golden Glass<br>Technologies             | Shantou, Guangdong, China  | 3944          | COMP+CAN        |               | 125 U                         | A                     |
| Guardian Fabrication Inc.                          | Webster, MA                | 1235          | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Industries Corp.                          | Corsicana, TX              | 1803          | COMP+CAN        |               | 175 U                         | A                     |
| Guardian Industries Corp.                          | Galax, VA                  | 4610          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                          | DeWitt, IA                 | 2649          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Industries Corp.                          | Geneva, NY                 | 3673          | COMPOSITE       |               | 400 U                         | A                     |
| Industrial Tempering Glass                         | Brooklyn, NY               | 3419          | COMPOSITE       |               | 100 U                         | A                     |
| Inkan Ltd                                          | Brampton, ON               | 5138          | COMP+CAN        |               | 800 U                         | A                     |
| Innovative Glass of America, Inc.                  | Dallas, NC                 | 3864          | COMPOSITE       |               | 165 U                         | A                     |
| Insulite Glass Co., Inc.                           | Olathe, KS                 | 3717          | COMPOSITE       |               | 150 U                         | A                     |
| Interglass Corp                                    | Miami, FL                  | 5035          | COMPOSITE       |               | 285 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.                     | Xiamen, Fujian, China      | 2577          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass                     | Jiangmen, Guangdong, China | 4308          | COMP+CAN        |               | 125 U                         | A                     |
| JM Glass                                           | Hayward, CA                | 4931          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                 | Foshan, Guangdong, China   | 3963          | COMP+CAN        |               | 125 U                         | A                     |
| Kensington Glass Arts                              | Ijamsville, MD             | 5975          | COMPOSITE       |               | 100 U                         | A                     |
| Kibing Special Glass Zhangzhou Co.,<br>Ltd.        | Zhangzhou, Fujian          | 5382          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                                     | Union City, TN             | 4012          | COMPOSITE       |               | 165 U                         | A                     |
| M&M Tempering Inc.                                 | Loganville, GA             | 4282          | COMPOSITE       |               | 165 U                         | A                     |
| Maryland Glass & Mirror                            | Baltimore, MD              | 4322          | COMPOSITE       |               | 100 U                         | A                     |
| McGrory Glass                                      | Paulsboro, NJ              | 4815          | COMPOSITE       |               | 100 U                         | A                     |
| Mega Tempering                                     | Brooklyn, NY               | 4301          | COMPOSITE       |               | 100 U                         | A                     |
| Mercer Glass Fab LLC                               | Trenton, NJ                | 4256          | COMPOSITE       |               | 100 U                         | A                     |
| Midwest Glass Fabricators Inc.                     | Highland, MI               | 6032          | COMP+CAN        |               | 200 U                         | A                     |
| Multiver                                           | Vanier, QC                 | 5228          | COMPOSITE       |               | 400 U                         | A                     |
| Nashville Tempered Glass LLC                       | Hendersonville, TN         | 4148          | COMP+CAN        |               | 285 U                         | A                     |
| New Angle Beveling                                 | Hyde, PA                   | 4592          | COMPOSITE       |               | 100 U                         | A                     |
| New Angle Beveling                                 | Clearfield, PA             | 5776          | COMPOSITE       |               | 100 U                         | A                     |
| New Century Glass & Aluminum LLC                   | Woodside, NY               | 5458          | COMPOSITE       |               | 400 U                         | A                     |
| NY Tempering LLC                                   | Maspeth, NY                | 4903          | COMPOSITE       |               | 800 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Wright City, MO            | 3143          | COMP+CAN        |               | 150 U                         | A                     |

**Certified Products-By Product Type**

|                                                     |                                           | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------------|-------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 1/2 Inch Tempered Transparent Glass                 |                                           |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope®                         | Grand Prairie, TX                         | 3256          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Perrysburg, OH                            | 3238          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Schofield, WI                             | 3173          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Langley, BC                               | 3292          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Albertville, MN                           | 3109          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Moorestown, NJ                            | 3185          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Shawnee, OK                               | 3100          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Covington, GA                             | 3334          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Miami, FL                                 | 3500          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Denver, CO                                | 3315          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Houston, TX                               | 3161          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Fremont, CA                               | 3196          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Warrenton, MO                             | 3149          | COMP+CAN        |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Tampa, FL                                 | 3121          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Rock Hill, SC                             | 3280          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Los Angeles, CA                           | 516           | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Vancouver, WA                             | 3225          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Concord, ON                               | 3445          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Indianapolis, IN                          | 2214          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Calgary, AB                               | 3269          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Phoenix, AZ                               | 3133          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Hauppauge, NY                             | 1550          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope® Canada Inc.             | Pointe-aux-Trembles, QC                   | 2062          | COMP+CAN        |               | 100 U                         | A                     |
| PFG Glass                                           | Langley, BC                               | 3544          | COMP+CAN        |               | 750 U                         | A                     |
| Prelco Inc.                                         | Saint-Jacques, NB                         | 4917          | COMP+CAN        |               | 800 U                         | A                     |
| Prelco Inc.                                         | Riviere-du-loup, QC                       | 2048          | COMP+CAN        |               | 800 U                         | A                     |
| Productos De Valor Agregado en Cristal S.A. de C.V. | San Juan Ixhuatepec, Tlalnepantla, Mexico | 4641          | COMPOSITE       |               | 175 U                         | A                     |
| Produits Verrier International Inc.                 | Montreal, Quebec                          | 5503          | COMP+CAN        |               | 100 U                         | A                     |
| Qingdao Apis Glass Industries Co. Ltd.              | Qingdao, Shandong China                   | 5531          | COMPOSITE       |               | 285 U                         | A                     |
| Quality Glass & Mirror, Inc.                        | Mount Prospect, IL                        | 2984          | COMPOSITE       |               | 500 U                         | A                     |
| Ready Glass & Mirror, Inc.                          | Hialeah, FL                               | 3748          | COMPOSITE       |               | 285 U                         | A                     |
| RF Supply, Inc.                                     | Bradenton, FL                             | 4227          | COMPOSITE       |               | 285 U                         | A                     |
| Rizhao Huaye Glass Co., Ltd.                        | Rizhao, Shandong                          | 5571          | COMP+CAN        |               | 285 U                         | A                     |
| Robover Inc.                                        | Quebec City, QC                           | 5764          | COMP+CAN        |               | 450 U                         | A                     |
| SAAND Ottawa                                        | Stittsville, ON                           | 4954          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Rexdale                                       | Rexdale, ON                               | 5000          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Toronto                                       | Toronto, ON Canada                        | 4358          | COMP+CAN        |               | 400 U                         | A                     |
| Shanghai SYP Engineering Glass                      | Shanghai, China                           | 4072          | COMPOSITE       |               | 125 U                         | A                     |
| Shenzhen Kai Tai Glass Co., LTD                     | Shenzhen City, GuangDong                  | 5439          | COMPOSITE       |               | 285 U                         | A                     |
| Shower Doors & More Inc.                            | Fort Lauderdale, FL                       | 5759          | COMPOSITE       |               | 285 U                         | A                     |
| SIGCO, Inc.                                         | Westbrook, ME                             | 2966          | COMPOSITE       |               | 100 U                         | A                     |
| Sky Land Tempering Glass Corp                       | Long Island City, NY                      | 5470          | COMPOSITE       |               | 100 U                         | A                     |
| Solar Seal Massachusetts                            | South Easton, MA                          | 1037          | COMPOSITE       |               | 800 U                         | A                     |
| Solar Seal Virginia                                 | Stafford, VA                              | 5726          | COMPOSITE       |               | 100 U                         | A                     |
| Strong Tempering Glass Industry LLC                 | Brooklyn, NY                              | 5941          | COMPOSITE       |               | 100 U                         | A                     |
| Sunglas Technics Co., Ltd.                          | Foshan City, Guangdong                    | 5679          | COMP+CAN        |               | 125 U                         | A                     |
| Swift Glass Co., Inc.                               | Elmira Heights, NY                        | 1559          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                            | Syracuse, NY                              | 2657          | COMP+CAN        |               | 400 U                         | A                     |
| Tacoma Glass Mfg. Inc.                              | Lakewood, WA                              | 4732          | COMPOSITE       |               | 195 U                         | A                     |
| Tacoma Glass Mfg. Inc.                              | Burlington, WA                            | 5167          | COMPOSITE       |               | 195 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                 | Dongguan, Guangdong, China                | 5604          | COMP+CAN        |               | 285 U                         | A                     |

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|                                                                |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/2 Inch Tempered Transparent Glass</i>                     |                            |               |                 |               |                               |                       |
| Taiwan Glass Industry Corp.                                    | Taipei, Taiwan, China      | 3891          | COMP+CAN        | 750 U         | A                             |                       |
| Techni-Glass, Inc.                                             | Surgoinsville, TN          | 4509          | COMP+CAN        | 285 U         | A                             |                       |
| Tecnoglass S.A.                                                | Barranquilla, Columbia     | 2135          | COMP+CAN        | 285 U         | A                             |                       |
| Tempco Glass                                                   | Flushing, NY               | 5013          | COMPOSITE       | 400 U         | A                             |                       |
| Texas Tempered, a Trulite Glass and Aluminum Solutions Company | Houston, TX                | 4851          | COMPOSITE       | 175 U         | A                             |                       |
| The Original Frameless Shower Door                             | Coral Springs, FL          | 4663          | COMPOSITE       | 285 U         | A                             |                       |
| Thermal Seal Insulating Glass                                  | Uxbridge, MA               | 5736          | COMPOSITE       | 285 U         | A                             |                       |
| Thompson I.G. LLC.                                             | Fenton, MI                 | 5299          | COMP+CAN        | 100 U         | A                             |                       |
| Tianjin CSG Energy Conservation Glass Co., Ltd                 | Tianjin, China             | 4026          | COMPOSITE       | 100 U         | A                             |                       |
| Tianjin Northglass Industrial Technical Co., Ltd               | Tianjin, China             | 5221          | COMPOSITE       | 175 U         | A                             |                       |
| Tri-Star Glass, Inc.                                           | Tulsa, OK                  | 4009          | COMPOSITE       | 175 U         | A                             |                       |
| Triton Glass LLC                                               | Albemarle, NC              | 5694          | COMPOSITE       | 165 U         | A                             |                       |
| Triview Glass Industries                                       | City of Industry, CA       | 5044          | COMP+CAN        | 250 U         | A                             |                       |
| Troy Systems LLC                                               | Manassas, VA               | 4063          | COMPOSITE       | 100 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Cheswick, PA               | 1788          | COMPOSITE       | 100 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Youngsville, NC            | 5276          | COMPOSITE       | 165 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Aurora, CO                 | 5345          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | New Berlin, WI             | 5322          | COMPOSITE       | 150 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Knoxville, TN              | 4159          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Tulsa, OK                  | 5447          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Houston, TX                | 3928          | COMP+CAN        | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Vaughan, ON                | 5782          | COMP+CAN        | 450 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | City of Industry, CA       | 4187          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Indianapolis, IN           | 4753          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Las Vegas, NV              | 4215          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Fort Worth, TX             | 5401          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Sacramento, CA             | 5813          | COMPOSITE       | 125 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | San Antonio, TX            | 4277          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Columbus, OH               | 4748          | COMPOSITE       | 200 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Phoenix, AZ                | 5704          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Fremont, CA                | 5798          | COMPOSITE       | 125 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Fresno, CA                 | 5826          | COMPOSITE       | 125 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Orlando, FL                | 5187          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                           | Atlanta, GA                | 866           | COMPOSITE       | 165 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions - West                    | Salt Lake City, UT         | 5340          | COMPOSITE       | 125 U         | A                             |                       |
| U.S. Glass Distributors Inc.                                   | Enfield, CT                | 5926          | COMP+CAN        | 400 U         | A                             |                       |
| United Plate Glass Co., Inc.                                   | Butler, PA                 | 2471          | COMPOSITE       | 800 U         | A                             |                       |
| United Plate Glass Company of Charlotte                        | Lincolnton, NC             | 3952          | COMP+CAN        | 165 U         | A                             |                       |
| Upstate Glass Tempering Inc.                                   | Middletown, NY             | 5158          | COMPOSITE       | 400 U         | A                             |                       |
| Vidrios Dellorto S.A.                                          | Santiago, Chile            | 5969          | COMPOSITE       | 285 U         | A                             |                       |
| Viracon Inc.                                                   | Owatonna, MN               | 1509          | COMP+CAN        | 150 U         | A                             |                       |
| Virginia Glass Products Corp.                                  | Martinsville, VA           | 94            | COMPOSITE       | 100 U         | A                             |                       |
| Vitemex                                                        | Reynosa, Tamaulipas Mexico | 5395          | COMPOSITE       | 175 U         | A                             |                       |
| Vitra Vidrios Transformados SA de CV                           | Cortes, Honduras           | 4655          | COMPOSITE       | 285 U         | A                             |                       |
| W. A. Wilson Inc.                                              | Wheeling, WV               | 4173          | COMPOSITE       | 200 U         | A                             |                       |
| Wholesale Glass Dist.                                          | Memphis, TN                | 4382          | COMPOSITE       | 150 U         | A                             |                       |
| Wisconsin Shower Door & Supply Corp                            | Menomonee Falls, WI        | 5590          | COMPOSITE       | 600 U         | A                             |                       |
| Wolverine Glass Products, Inc.                                 | Grand Rapids, MI           | 5431          | COMP+CAN        | 200 U         | A                             |                       |

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|                                                                                                 |                               | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------------------------------------------------|-------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/2 Inch Tempered Transparent Glass</i>                                                      |                               |               |                 |               |                               |                       |
| WSD Glass, Inc.                                                                                 | Winston-Salem, NC             | 4050          | COMPOSITE       |               | 165 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.                                                         | Wujiang City,                 | 5254          | COMPOSITE       |               | 125 U                         | A                     |
| Xianning CSG Energy Conservation Glass Co., LTD.                                                | Xianning, Hebei               | 5981          | COMPOSITE       |               | 125 U                         | A                     |
| Xinyi Glass (Tianjin) Co. Ltd.                                                                  | Tianjin, China                | 5536          | COMP+CAN        |               | 195 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                                | Foshan, Guangdong, China      | 3741          | COMP+CAN        |               | 285 U                         | A                     |
| Zhangjiagang City Daming Glass Product Co., Ltd                                                 | Zhangjiagang City, Jiangsu    | 5466          | COMP+CAN        |               | 285 U                         | A                     |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd                                           | Hangzhou, Zhejiang, China     | 5081          | COMPOSITE       |               | 125 U                         | A                     |
| <i>12 mm Tempered Transparent Glass (Conforms to thickness tolerance other than ASTM C1036)</i> |                               |               |                 |               |                               |                       |
| Eckelt Glas GmbH                                                                                | Steyr, Austria                | 2853          | COMPOSITE       | (3)           | 100 U                         | A                     |
| Gulf Glass Industries, LLC                                                                      | Sharjah, United Arab Emirates | 4798          | COMPOSITE       | (7)           | 100 U                         | A                     |
| Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd                                       | Qinhuangdao, Hebei, China     | 5129          | COMP+CAN        | (3)           | 150 U                         | A                     |
| Tianjin SYP Engineering Glass Co., Ltd.                                                         | Tianjin, China                | 4079          | COMP+CAN        | (3)           | 125 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                                                                   | Dongguan, Guangdong, China    | 3055          | COMP+CAN        | (4)           | 125 U                         | A                     |
| <i>1/2 Inch Tempered Transparent Glass</i>                                                      |                               |               |                 |               |                               |                       |
| Anthony International                                                                           | Madison, GA                   | 5018          | COMPOSITE       |               | 165 U                         | A                     |
| <i>5/8 Inch Tempered Transparent Glass</i>                                                      |                               |               |                 |               |                               |                       |
| Rizhao Huaye Glass Co., Ltd.                                                                    | Rizhao, Shandong              | 5572          | COMP+CAN        |               | 285 U                         | A                     |
| SAAND Rexdale                                                                                   | Rexdale, ON                   | 5008          | COMP+CAN        | (3)           | 400 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.                                                         | Wujiang City,                 | 5255          | COMPOSITE       |               | 125 U                         | A                     |
| <i>15 mm Tempered Transparent Glass (Conforms to thickness tolerance other than ASTM C1036)</i> |                               |               |                 |               |                               |                       |
| Al Abbar Architectural Glass                                                                    | Dubai, United Arab Emirates   | 3976          | COMPOSITE       | (4)           | 100 U                         | A                     |
| AVIC Sanxin Co. Ltd.                                                                            | Shenzhen, Guangdong, China    | 5770          | COMPOSITE       | (3)           | 285 U                         | A                     |
| Beijing Wuhua Tianbao Glass Co.                                                                 | Beijing, China                | 5661          | COMPOSITE       | (3)           | 125 U                         | A                     |
| Classy Glass Specialties Co., Ltd                                                               | Dongguan, Guangdong           | 5163          | COMPOSITE       | (4)           | 200 U                         | A                     |
| DDG Glass Manufacturing SDN BHD                                                                 | Masai, Johor                  | 5627          | COMP+CAN        | (3)           | 125 U                         | A                     |
| Diamond Sea Glaze                                                                               | Langley, BC Canada            | 4505          | COMPOSITE       | (3)           | 750 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.                                                      | Dongguan, Guangdong, China    | 3938          | COMP+CAN        | (3)           | 125 U                         | A                     |
| Eckelt Glas GmbH                                                                                | Steyr, Austria                | 2854          | COMPOSITE       | (3)           | 100 U                         | A                     |
| Garibaldi Glass Ind. Inc.                                                                       | Burnaby, BC                   | 5125          | COMP+CAN        | (3)           | 750 U                         | A                     |
| Guangdong Golden Glass Technologies                                                             | Shantou, Guangdong, China     | 3945          | COMP+CAN        | (3)           | 125 U                         | A                     |
| Jiangmen SYP Engineering Glass                                                                  | Jiangmen, Guangdong, China    | 4309          | COMP+CAN        | (3)           | 125 U                         | A                     |
| Shanghai SYP Engineering Glass                                                                  | Shanghai, China               | 4073          | COMPOSITE       | (3)           | 125 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd                                                  | Tianjin, China                | 4027          | COMPOSITE       | (3)           | 100 U                         | A                     |
| Tianjin SYP Engineering Glass Co., Ltd.                                                         | Tianjin, China                | 4080          | COMP+CAN        | (3)           | 125 U                         | A                     |
| Xianning CSG Energy Conservation Glass Co., LTD.                                                | Xianning, Hebei               | 5982          | COMPOSITE       | (3)           | 125 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                                                                   | Dongguan, Guangdong, China    | 4179          | COMP+CAN        | (3)           | 125 U                         | A                     |
| <i>5/8 Inch Tempered Transparent Glass</i>                                                      |                               |               |                 |               |                               |                       |
| All Team Glass & Mirror, Ltd.                                                                   | Woodbridge, ON Canada         | 4355          | COMPOSITE       |               | 450 U                         | A                     |
| Blue Star Glass Inc.                                                                            | North Brunswick, NJ           | 5174          | COMPOSITE       |               | 100 U                         | A                     |
| Dillmeier Enterprise, Inc.                                                                      | Van Buren, AR                 | 3916          | COMPOSITE       |               | 175 U                         | A                     |
| GGI Glass Distributors Corp.                                                                    | Secaucus, NJ                  | 3857          | COMPOSITE       |               | 100 U                         | A                     |



***Certified Products-By Product Type***

|                                                                                                        |                             | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------------------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <b><i>5/8 Inch Tempered Transparent Glass</i></b>                                                      |                             |               |                 |               |                               |                       |
| Glass and Mirror Craft                                                                                 | Wixom, MI                   | 4203          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Dynamics, Inc.                                                                                   | Stoneville, NC              | 2731          | COMPOSITE       |               | 285 U                         | A                     |
| Inkan Ltd                                                                                              | Brampton, ON                | 5139          | COMP+CAN        |               | 800 U                         | A                     |
| Kensington Glass Arts                                                                                  | Ijamsville, MD              | 5976          | COMPOSITE       |               | 100 U                         | A                     |
| McGrory Glass                                                                                          | Paulsboro, NJ               | 4816          | COMPOSITE       |               | 100 U                         | A                     |
| Midwest Glass Fabricators Inc.                                                                         | Highland, MI                | 6033          | COMP+CAN        |               | 200 U                         | A                     |
| Nashville Tempered Glass LLC                                                                           | Hendersonville, TN          | 5453          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Moorestown, NJ              | 4054          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Calgary, AB                 | 3270          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Albertville, MN             | 3110          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Perrysburg, OH              | 3239          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Langley, BC                 | 3293          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Fremont, CA                 | 4458          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Los Angeles, CA             | 4387          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Warrenton, MO               | 5904          | COMP+CAN        |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Hauppauge, NY               | 4181          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                            | Concord, ON                 | 3446          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope® Canada Inc.                                                                | Pointe-aux-Trembles, QC     | 2063          | COMP+CAN        |               | 100 U                         | A                     |
| SIGCO, Inc.                                                                                            | Westbrook, ME               | 4326          | COMPOSITE       |               | 100 U                         | A                     |
| Techni-Glass, Inc.                                                                                     | Surgoinsville, TN           | 4510          | COMP+CAN        |               | 285 U                         | A                     |
| Tecnoglass S.A.                                                                                        | Barranquilla, Columbia      | 2365          | COMP+CAN        |               | 285 U                         | A                     |
| Triview Glass Industries                                                                               | City of Industry, CA        | 5045          | COMP+CAN        |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                                   | Fresno, CA                  | 5827          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                                   | Orlando, FL                 | 5680          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                                   | New Berlin, WI              | 5896          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                                   | Houston, TX                 | 5477          | COMP+CAN        |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                                   | Atlanta, GA                 | 4089          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                                   | City of Industry, CA        | 4522          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                                   | Cheswick, PA                | 4134          | COMPOSITE       |               | 100 U                         | A                     |
| U.S. Glass Distributors Inc.                                                                           | Enfield, CT                 | 5927          | COMP+CAN        |               | 400 U                         | A                     |
| Virginia Glass Products Corp.                                                                          | Martinsville, VA            | 2182          | COMPOSITE       |               | 100 U                         | A                     |
| <b><i>16 mm Tempered Transparent Glass (Conforms to thickness tolerance other than ASTM C1036)</i></b> |                             |               |                 |               |                               |                       |
| Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd                                              | Qinhuangdao, Hebei, China   | 5130          | COMP+CAN        | (3)           | 150 U                         | A                     |
| <b><i>3/4 Inch Tempered Transparent Glass</i></b>                                                      |                             |               |                 |               |                               |                       |
| Al Abbar Architectural Glass                                                                           | Dubai, United Arab Emirates | 3977          | COMPOSITE       |               | 100 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.                                                               | Miramar, FL                 | 4810          | COMPOSITE       |               | 285 U                         | A                     |
| All Team Glass & Mirror, Ltd.                                                                          | Woodbridge, ON Canada       | 3656          | COMPOSITE       |               | 450 U                         | A                     |
| AVIC Sanxin Co. Ltd.                                                                                   | Shenzhen, Guangdong, China  | 5771          | COMPOSITE       |               | 285 U                         | A                     |
| Basco Engineered Products                                                                              | Hamilton, OH                | 5076          | COMPOSITE       |               | 200 U                         | A                     |
| Beijing Wuhua Tianbao Glass Co.                                                                        | Beijing, China              | 5662          | COMPOSITE       |               | 125 U                         | A                     |
| Berkowitz, J.E.                                                                                        | Pedricktown, NJ             | 2647          | COMP+CAN        |               | 100 U                         | A                     |
| Blue Star Glass Inc.                                                                                   | North Brunswick, NJ         | 5175          | COMPOSITE       |               | 100 U                         | A                     |
| Classy Glass Specialties Co., Ltd                                                                      | Dongguan, Guangdong         | 5164          | COMPOSITE       |               | 200 U                         | A                     |
| Contractors Wardrobe                                                                                   | Valencia, CA                | 3472          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                                                                        | Tuscaloosa, AL              | 2644          | COMPOSITE       |               | 165 U                         | A                     |
| Diamond Sea Glaze                                                                                      | Langley, BC Canada          | 4506          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                                                                             | Van Buren, AR               | 3917          | COMPOSITE       |               | 175 U                         | A                     |
| Dlubak Corporation                                                                                     | Blairsville, PA             | 3019          | COMPOSITE       |               | 100 U                         | A                     |

***Certified Products-By Product Type***

|                                                                |                                           | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------------------|-------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>3/4 Inch Tempered Transparent Glass</i>                     |                                           |               |                 |               |                               |                       |
| Dongguan CSG Architectural Glass Co., Ltd.                     | Dongguan, Guangdong, China                | 3939          | COMP+CAN        |               | 125 U                         | A                     |
| Downey Glass Industries, LLC                                   | Pompano Beach, FL                         | 2665          | COMPOSITE       |               | 285 U                         | A                     |
| Eckelt Glas GmbH                                               | Steyr, Austria                            | 2855          | COMPOSITE       |               | 100 U                         | A                     |
| Garibaldi Glass Ind. Inc.                                      | Burnaby, BC                               | 4422          | COMP+CAN        |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                                   | Secaucus, NJ                              | 3858          | COMPOSITE       |               | 100 U                         | A                     |
| Glass and Mirror Craft                                         | Wixom, MI                                 | 4204          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Design of Miami, Inc.                                    | Miami, FL                                 | 5237          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                                           | Stoneville, NC                            | 2734          | COMPOSITE       |               | 285 U                         | A                     |
| GlassFab Tempering Services, Inc. Mariani Ct.                  | Tracy, CA                                 | 4893          | COMPOSITE       |               | 125 U                         | A                     |
| Glasshape NA L.P.                                              | Auckland, New Zealand                     | 5717          | COMPOSITE       |               | 195 U                         | A                     |
| Glasswerks LA, Inc. East                                       | South Gate, CA                            | 5885          | COMPOSITE       |               | 250 U                         | A                     |
| Guangdong Golden Glass Technologies                            | Shantou, Guangdong, China                 | 3946          | COMP+CAN        |               | 125 U                         | A                     |
| Guardian Industries Corp.                                      | Galax, VA                                 | 4611          | COMP+CAN        | (IN)          | 285 U                         | A                     |
| Industrial Tempering Glass                                     | Brooklyn, NY                              | 4240          | COMPOSITE       |               | 100 U                         | A                     |
| Inkan Ltd                                                      | Brampton, ON                              | 5140          | COMP+CAN        |               | 800 U                         | A                     |
| Interglass Corp                                                | Miami, FL                                 | 5036          | COMPOSITE       |               | 285 U                         | A                     |
| Jiangmen SYP Engineering Glass                                 | Jiangmen, Guangdong, China                | 4310          | COMP+CAN        |               | 125 U                         | A                     |
| Kensington Glass Arts                                          | Ijamsville, MD                            | 5977          | COMPOSITE       |               | 100 U                         | A                     |
| McGrory Glass                                                  | Paulsboro, NJ                             | 4817          | COMPOSITE       |               | 100 U                         | A                     |
| Midwest Glass Fabricators Inc.                                 | Highland, MI                              | 6034          | COMP+CAN        |               | 200 U                         | A                     |
| Nashville Tempered Glass LLC                                   | Hendersonville, TN                        | 5454          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Albertville, MN                           | 3111          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Concord, ON                               | 3447          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Covington, GA                             | 3335          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Hauppauge, NY                             | 1551          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Langley, BC                               | 3294          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Grand Prairie, TX                         | 3257          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Perrysburg, OH                            | 3240          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Los Angeles, CA                           | 2074          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Calgary, AB                               | 3271          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                                    | Fremont, CA                               | 3197          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope® Canada Inc.                        | Pointe-aux-Trembles, QC                   | 2885          | COMP+CAN        |               | 100 U                         | A                     |
| Prelco Inc.                                                    | Riviere-du-loup, QC                       | 4904          | COMP+CAN        |               | 800 U                         | A                     |
| Productos De Valor Agregado en Cristal S.A. de C.V.            | San Juan Ixhuatepec, Tlalnepantla, Mexico | 4642          | COMPOSITE       |               | 175 U                         | A                     |
| Quality Glass & Mirror, Inc.                                   | Mount Prospect, IL                        | 3805          | COMPOSITE       |               | 500 U                         | A                     |
| Rizhao Huaye Glass Co., Ltd.                                   | Rizhao, Shandong                          | 5573          | COMP+CAN        |               | 285 U                         | A                     |
| Shanghai SYP Engineering Glass                                 | Shanghai, China                           | 4074          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                                    | Westbrook, ME                             | 4327          | COMPOSITE       |               | 100 U                         | A                     |
| Solar Seal Massachusetts                                       | South Easton, MA                          | 5527          | COMPOSITE       |               | 800 U                         | A                     |
| Tacoma Glass Mfg. Inc.                                         | Burlington, WA                            | 5168          | COMPOSITE       |               | 195 U                         | A                     |
| Tecnoglass S.A.                                                | Barranquilla, Columbia                    | 2894          | COMP+CAN        |               | 285 U                         | A                     |
| Texas Tempered, a Trulite Glass and Aluminum Solutions Company | Houston, TX                               | 5365          | COMPOSITE       |               | 175 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd                 | Tianjin, China                            | 4028          | COMPOSITE       |               | 100 U                         | A                     |
| Tianjin SYP Engineering Glass Co., Ltd.                        | Tianjin, China                            | 4081          | COMP+CAN        |               | 125 U                         | A                     |
| Triview Glass Industries                                       | City of Industry, CA                      | 5046          | COMP+CAN        |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Las Vegas, NV                             | 4216          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | City of Industry, CA                      | 4371          | COMPOSITE       |               | 250 U                         | A                     |

**Certified Products-By Product Type**

|                                                                                                 |                           | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------------------------------------------------|---------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>3/4 Inch Tempered Transparent Glass</i>                                                      |                           |               |                 |               |                               |                       |
| Trulite Glass and Aluminum Solutions                                                            | Cheswick, PA              | 4135          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Atlanta, GA               | 2960          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Sacramento, CA            | 5814          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Orlando, FL               | 5188          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | New Berlin, WI            | 5897          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Fort Worth, TX            | 5406          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Houston, TX               | 5478          | COMP+CAN        |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Fresno, CA                | 5828          | COMPOSITE       |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Aurora, CO                | 5346          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Youngsville, NC           | 5277          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Fremont, CA               | 5800          | COMPOSITE       |               | 125 U                         | A                     |
| U.S. Glass Distributors Inc.                                                                    | Enfield, CT               | 5928          | COMP+CAN        |               | 400 U                         | A                     |
| Virginia Glass Products Corp.                                                                   | Martinsville, VA          | 95            | COMPOSITE       |               | 100 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.                                                         | Wujiang City,             | 5256          | COMPOSITE       |               | 125 U                         | A                     |
| Xianning CSG Energy Conservation Glass Co., LTD.                                                | Xianning, Hebei           | 5983          | COMPOSITE       |               | 125 U                         | A                     |
| <i>19 mm Tempered Transparent Glass (Conforms to thickness tolerance other than ASTM C1036)</i> |                           |               |                 |               |                               |                       |
| DDG Glass Manufacturing SDN BHD                                                                 | Masai, Johor              | 5628          | COMP+CAN        | (3)           | 125 U                         | A                     |
| <i>7/8 Inch Tempered Transparent Glass</i>                                                      |                           |               |                 |               |                               |                       |
| Guangdong Golden Glass Technologies                                                             | Shantou, Guangdong, China | 4535          | COMPOSITE       |               | 125 U                         | A                     |
| <i>1 Inch Tempered Transparent Glass</i>                                                        |                           |               |                 |               |                               |                       |
| GGI Glass Distributors Corp.                                                                    | Secaucus, NJ              | 4774          | COMPOSITE       | (IN)          | 100 U                         | A                     |
| <b>Tempered Patterned Glass</b>                                                                 |                           |               |                 |               |                               |                       |
| <i>1/8 Inch Tempered Patterned Glass</i>                                                        |                           |               |                 |               |                               |                       |
| AGC Flat Glass North America                                                                    | Greenland, TN             | 587           | COMP+CAN        | (s)           | 285 U                         | A                     |
| AGC Glass Co. North America Building Products Fabrication                                       | Boardman, OH              | 5475          | COMP+CAN        | (m)           | 800 U                         | A                     |
| AGC Glass Co. North America Building Products Fabrication                                       | Quakertown, PA            | 2510          | COMPOSITE       | (s)           | 100 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.                                                         | Charleston, SC            | 4332          | COMPOSITE       | (s)           | 285 U                         | A                     |
| American Insulated Glass Inc.                                                                   | Conley, GA                | 5288          | COMPOSITE       | (m)           | 165 U                         | A                     |
| Amsco Windows                                                                                   | Salt Lake City, UT        | 2582          | COMPOSITE       | (m)           | 750 U                         | A                     |
| ATI Windows                                                                                     | Riverside, CA             | 5639          | COMPOSITE       | (s)           | 250 U                         | A                     |
| Cardinal CG                                                                                     | Galt, CA                  | 3599          | COMPOSITE       | (s)           | 125 U                         | A                     |
| Cardinal CG                                                                                     | Northfield, MN            | 2011          | COMP+CAN        | (s)           | 150 U                         | A                     |
| Cardinal CG                                                                                     | Spring Green, WI          | 2071          | COMP+CAN        | (s)           | 600 U                         | A                     |
| Cardinal CG                                                                                     | Tumwater, WA              | 2954          | COMP+CAN        | (s)           | 195 U                         | A                     |
| Cardinal CG                                                                                     | Buford, GA                | 2146          | COMP+CAN        | (s)           | 165 U                         | A                     |
| Cardinal CG                                                                                     | Loveland, CO              | 4343          | COMPOSITE       | (s)           | 500 U                         | A                     |
| Cardinal CG                                                                                     | Moreno Valley, CA         | 5335          | COMP+CAN        | (s)           | 250 U                         | A                     |
| Cardinal CT                                                                                     | Los Angeles, CA           | 5088          | COMP+CAN        | (s)           | 250 U                         | A                     |
| Cardinal CT                                                                                     | Utica, OH                 | 4623          | COMP+CAN        | (m)           | 100 U                         | A                     |
| Cardinal CT                                                                                     | Adel, GA                  | 5098          | COMPOSITE       | (d)           | 165 U                         | A                     |
| Cardinal CT                                                                                     | Easton, PA                | 4759          | COMP+CAN        | (s)           | 100 U                         | A                     |
| Cardinal CT                                                                                     | Mount Airy, NC            | 4581          | COMP+CAN        | (s)           | 165 U                         | A                     |
| Cardinal CT - S                                                                                 | Irving TX                 | 5105          | COMPOSITE       | (s)           | 175 U                         | A                     |
| Cardinal CT - W                                                                                 | Irving TX                 | 5249          | COMPOSITE       | (s)           | 175 U                         | A                     |
| Cardinal IG                                                                                     | Mountain Top, PA          | 3073          | COMP+CAN        | (m)           | 100 U                         | A                     |
| Cardinal IG                                                                                     | Hood River, OR            | 2857          | COMP+CAN        | (s)           | 195 U                         | A                     |

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|                                                  |                        | <u>SGCC #</u> | <u>Standard</u> |     | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------|------------------------|---------------|-----------------|-----|---------------|-------------------------------|-----------------------|
| 1/8 Inch Tempered Patterned Glass                |                        |               |                 |     |               |                               |                       |
| Cardinal IG                                      | Ocala, FL              | 4584          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Cardinal IG                                      | Spring Green, WI       | 1844          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Cardinal IG                                      | Tomah, WI              | 2321          | COMP+CAN        | (m) |               | 600 U                         | A                     |
| Cardinal IG                                      | Greenfield, IA         | 1841          | COMP+CAN        | (s) |               | 500 U                         | A                     |
| Cardinal IG                                      | Fremont, IN            | 2203          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Cardinal IG                                      | Fargo, ND              | 2231          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Cardinal IG                                      | Casa Grande, AZ        | 4103          | COMP+CAN        | (s) |               | 250 U                         | A                     |
| Cardinal IG                                      | Waxahachie, TX         | 2397          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Cardinal IG                                      | Vinton, VA             | 2923          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Contour Industries, Inc.                         | Surgoinsville, TN      | 4703          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Contractors Wardrobe                             | Valencia, CA           | 3473          | COMP+CAN        | (m) |               | 250 U                         | A                     |
| Flat Glass Distributors                          | Jacksonville, FL       | 3828          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| General Glass                                    | Portland, OR           | 5750          | COMPOSITE       | (s) |               | 195 U                         | A                     |
| GlassFab Tempering Services, Inc.<br>Mariani Ct. | Tracy, CA              | 4894          | COMPOSITE       | (s) |               | 125 U                         | A                     |
| Guardian Fabrication Inc.                        | Webster, MA            | 3604          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Guardian IG LLC                                  | Sun Prairie, WI        | 5644          | COMP+CAN        | (d) |               | 600 U                         | A                     |
| Guardian Industries Corp.                        | Richburg, SC           | 1683          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Guardian Industries Corp.                        | Kingsburg, CA          | 1303          | COMP+CAN        | (d) |               | 125 U                         | A                     |
| Guardian Industries Corp.                        | Corsicana, TX          | 2458          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Guardian Industries Corp.                        | Galax, VA              | 4612          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Intigral                                         | Walton Hills, OH       | 3631          | COMP+CAN        | (m) |               | 200 U                         | A                     |
| Kawneer - (Cranberry) a division of<br>Alcoa     | Cranberry Township, PA | 4394          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Kohler Company                                   | Union City, TN         | 1983          | COMPOSITE       | (m) |               | 165 U                         | A                     |
| Nashville Tempered Glass Corp.                   | Nashville, TN          | 2420          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Indianapolis, IN       | 4384          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Phoenix, AZ            | 3134          | COMP+CAN        | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Langley, BC            | 3295          | COMP+CAN        | (m) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Denver, CO             | 3317          | COMP+CAN        | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Calgary, AB            | 3272          | COMP+CAN        | (m) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Miami, FL              | 3501          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Vancouver, WA          | 3226          | COMP+CAN        | (s) |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Warrenton, MO          | 3151          | COMP+CAN        | (s) |               | 500 u                         | A                     |
| Oldcastle BuildingEnvelope®                      | Rock Hill, SC          | 3281          | COMP+CAN        | (s) |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Moorestown, NJ         | 3186          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Grand Prairie, TX      | 3425          | COMP+CAN        | (s) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Perrysburg, OH         | 3242          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Tampa, FL              | 3122          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Fremont, CA            | 3199          | COMP+CAN        | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Covington, GA          | 3336          | COMP+CAN        | (s) |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Shawnee, OK            | 3101          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| PFG Glass                                        | Langley, BC            | 3547          | COMP+CAN        | (s) |               | 750 U                         | A                     |
| PGT Industries                                   | Nokomis, FL            | 3880          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Produits Verrier International Inc.              | Montreal, Quebec       | 5504          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Quaker Window Products, Inc.                     | Freeburg, MO           | 2968          | COMP+CAN        | (m) |               | 150 U                         | A                     |
| SAAND Rexdale                                    | Rexdale, ON            | 5003          | COMP+CAN        | (s) |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                      | Sweetwater, TN         | 1422          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| SIGCO, Inc.                                      | Westbrook, ME          | 4543          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Simonton Windows                                 | Paris, IL              | 5295          | COMPOSITE       | (s) |               | 150 U                         | A                     |
| Simonton Windows                                 | Ellenboro, WV          | 5296          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Techni-Glass, Inc.                               | Surgoinsville, TN      | 3061          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| Thermal Seal Insulating Glass                    | Uxbridge, MA           | 5730          | COMPOSITE       | (s) |               | 285 U                         | A                     |

***Certified Products-By Product Type***

|                                                  |                            | <u>SGCC #</u> | <u>Standard</u> |         | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------|----------------------------|---------------|-----------------|---------|---------------|-------------------------------|-----------------------|
| 1/8 Inch Tempered Patterned Glass                |                            |               |                 |         |               |                               |                       |
| Trulite Glass and Aluminum Solutions             | San Antonio, TX            | 3818          | COMPOSITE       | (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Aurora, CO                 | 5347          | COMPOSITE       | (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Houston, TX                | 5433          | COMP+CAN        | (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Knoxville, TN              | 4207          | COMPOSITE       | (m)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Las Vegas, NV              | 4217          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Atlanta, GA                | 4090          | COMPOSITE       | (s)     |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Tulsa, OK                  | 5688          | COMPOSITE       | (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | City of Industry, CA       | 4188          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Sacramento, CA             | 5815          | COMPOSITE       | (d)     |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Fort Worth, TX             | 5784          | COMPOSITE       | (m)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Orlando, FL                | 5189          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Phoenix, AZ                | 5705          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Fresno, CA                 | 5829          | COMPOSITE       | (d)     |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Cheswick, PA               | 4452          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Fremont, CA                | 5801          | COMPOSITE       | (d)     |               | 125 U                         | A                     |
| United Plate Glass Company of<br>Charlotte       | Lincolnton, NC             | 3954          | COMP+CAN        | (d)     |               | 165 U                         | A                     |
| W. A. Wilson Inc.                                | Wheeling, WV               | 5173          | COMPOSITE       | (d)     |               | 200 U                         | A                     |
| Wisconsin Shower Door & Supply<br>Corp           | Menomonee Falls, WI        | 5592          | COMPOSITE       | (s)     |               | 600 U                         | A                     |
| 5/32 Inch Tempered Patterned Glass               |                            |               |                 |         |               |                               |                       |
| AGC Flat Glass North America                     | Greenland, TN              | 2980          | COMP+CAN        | (m)     |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products<br>Inc.       | Charleston, SC             | 4333          | COMPOSITE       | (d)     |               | 285 U                         | A                     |
| Arlene Stained Glass & Door                      | Houston, TX                | 3585          | COMPOSITE       | (s)     |               | 175 U                         | A                     |
| Cardinal CG                                      | Waxahachie, TX             | 4047          | COMP+CAN        | (m)     |               | 175 U                         | A                     |
| Cardinal CG                                      | Galt, CA                   | 4347          | COMPOSITE       | (m)     |               | 125 U                         | A                     |
| Cardinal CG                                      | Loveland, CO               | 4344          | COMPOSITE       | (d)     |               | 500 U                         | A                     |
| Cardinal CG                                      | Northfield, MN             | 2012          | COMP+CAN        | (d)     |               | 150 U                         | A                     |
| Cardinal CG                                      | Tumwater, WA               | 2955          | COMP+CAN        | (d)     |               | 195 U                         | A                     |
| Cardinal CT                                      | Easton, PA                 | 4760          | COMP+CAN        | (s)     |               | 100 U                         | A                     |
| Cardinal CT                                      | Adel, GA                   | 5099          | COMPOSITE       | (d)     |               | 165 U                         | A                     |
| Cardinal CT                                      | Mount Airy, NC             | 4742          | COMP+CAN        | (m)     |               | 165 U                         | A                     |
| Cardinal CT                                      | Utica, OH                  | 4624          | COMP+CAN        | (m)     |               | 100 U                         | A                     |
| Cardinal IG                                      | Hood River, OR             | 4836          | COMP+CAN        | (d)     |               | 195 U                         | A                     |
| Cardinal IG                                      | Spring Green, WI           | 1845          | COMP+CAN        | (m)     |               | 150 U                         | A                     |
| Cardinal IG                                      | Fargo, ND                  | 2285          | COMP+CAN        | (m)     |               | 150 U                         | A                     |
| Cardinal IG                                      | Vinton, VA                 | 2924          | COMP+CAN        | (d)     |               | 100 U                         | A                     |
| Cardinal IG                                      | Fremont, IN                | 2204          | COMP+CAN        | (d)     |               | 150 U                         | A                     |
| Cardinal IG                                      | Casa Grande, AZ            | 4104          | COMP+CAN        | (d)     |               | 250 U                         | A                     |
| Cardinal IG                                      | Mountain Top, PA           | 3115          | COMP+CAN        | (s)     |               | 100 U                         | A                     |
| Cardinal IG                                      | Greenfield, IA             | 1842          | COMP+CAN        | (d)     |               | 500 U                         | A                     |
| Cardinal IG                                      | Tomah, WI                  | 2322          | COMP+CAN        | (d)     |               | 600 U                         | A                     |
| Cardinal IG                                      | Waxahachie, TX             | 4091          | COMP+CAN        | (d)     |               | 175 U                         | A                     |
| Consolidated Glass Corp.                         | New Castle, PA             | 2355          | COMP+CAN        | (m)     |               | 285 U                         | A                     |
| Contour Industries, Inc.                         | Surgoinsville, TN          | 4704          | COMP+CAN        | (IN)(s) |               | 285 U                         | A                     |
| Contractors Wardrobe                             | Valencia, CA               | 3474          | COMP+CAN        | (d)     |               | 250 U                         | A                     |
| Dongguan Trillion Aluminum Glass<br>Co., Ltd     | Dongguan, Guangdong, China | 5863          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware<br>Technology Co., Ltd | Nan'an Fujian China        | 5217          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| GGI Glass Distributors Corp.                     | Secaucus, NJ               | 3970          | COMPOSITE       | (IN)(s) |               | 100 U                         | A                     |

***Certified Products-By Product Type***

|                                                       |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/32 Inch Tempered Patterned Glass</i>             |                            |               |                 |               |                               |                       |
| GlassFab Tempering Services, Inc.<br>Mariani Ct.      | Tracy, CA                  | 5128          | COMPOSITE       | (d)           | 125 U                         | A                     |
| Guardian Fabrication Inc.                             | Webster, MA                | 2451          | COMPOSITE       | (m)           | 100 U                         | A                     |
| Guardian IG LLC                                       | Sun Prairie, WI            | 5645          | COMP+CAN        | (d)           | 600 U                         | A                     |
| Guardian Industries Corp.                             | Corsicana, TX              | 2459          | COMP+CAN        | (m)           | 175 U                         | A                     |
| Guardian Industries Corp.                             | Richburg, SC               | 1635          | COMPOSITE       | (m)           | 285 U                         | A                     |
| Guardian Industries Corp.                             | Kingsburg, CA              | 1301          | COMP+CAN        | (m)           | 125 U                         | A                     |
| Huahui Glass (China) Co., LD                          | Quanzhou City, China       | 5844          | COMPOSITE       | (s)           | 285 U                         | B                     |
| Intigral                                              | Walton Hills, OH           | 4588          | COMP+CAN        | (m)           | 200 U                         | A                     |
| Jiaxing Joinbath Corporation                          | Jiaxing, Zhejiang, China   | 5711          | COMPOSITE       | (m)           | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                    | Foshan, Guangdong, China   | 4161          | COMP+CAN        | (m)           | 125 U                         | A                     |
| Kohler Company                                        | Union City, TN             | 3532          | COMPOSITE       | (m)           | 165 U                         | A                     |
| Nashville Tempered Glass Corp.                        | Nashville, TN              | 5785          | COMP+CAN        | (s)           | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Houston, TX                | 3163          | COMP+CAN        | (d)           | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Vancouver, WA              | 3227          | COMP+CAN        | (d)           | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Langley, BC                | 3296          | COMP+CAN        | (d)           | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Albertville, MN            | 3112          | COMP+CAN        | (s)           | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Phoenix, AZ                | 3135          | COMP+CAN        | (s)           | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Denver, CO                 | 3318          | COMP+CAN        | (d)           | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Calgary, AB                | 3273          | COMP+CAN        | (d)           | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Warrenton, MO              | 3152          | COMP+CAN        | (s)           | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Rock Hill, SC              | 4396          | COMP+CAN        | (d)           | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Covington, GA              | 3337          | COMP+CAN        | (s)           | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Fremont, CA                | 3200          | COMP+CAN        | (s)           | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Grand Prairie, TX          | 3426          | COMP+CAN        | (m)           | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Schofield, WI              | 3177          | COMP+CAN        | (d)           | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Moorestown, NJ             | 3187          | COMP+CAN        | (d)           | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Shawnee, OK                | 3102          | COMP+CAN        | (m)           | 175 U                         | A                     |
| PFG Glass                                             | Langley, BC                | 3548          | COMP+CAN        | (d)           | 750 U                         | A                     |
| Qinhuangdao Ampac Building<br>Products Co., Ltd.      | Qinhuangdao Hebei, China   | 5902          | COMPOSITE       | (s)           | 100 U                         | A                     |
| Quaker Window Products, Inc.                          | Freeburg, MO               | 2969          | COMP+CAN        | (IN)(m)       | 150 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                           | Sweetwater, TN             | 1424          | COMP+CAN        | (s)           | 285 U                         | A                     |
| SIGCO, Inc.                                           | Westbrook, ME              | 2967          | COMPOSITE       | (s)           | 100 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                   | Dongguan, Guangdong, China | 5067          | COMP+CAN        | (m)           | 285 U                         | A                     |
| Techni-Glass, Inc.                                    | Surgoinsville, TN          | 5050          | COMP+CAN        | (m)           | 285 U                         | A                     |
| TianJin Dong Sung Home Building<br>Materials Co. Ltd. | Tianjin, China             | 3460          | COMPOSITE       | (d)           | 250 U                         | A                     |
| Tri-Star Glass, Inc.                                  | Tulsa, OK                  | 4010          | COMPOSITE       | (s)           | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Knoxville, TN              | 4981          | COMPOSITE       | (d)           | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | San Antonio, TX            | 3647          | COMPOSITE       | (m)           | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Fremont, CA                | 5802          | COMPOSITE       | (m)           | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | City of Industry, CA       | 4372          | COMPOSITE       | (s)           | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Fresno, CA                 | 5985          | COMPOSITE       | (m)           | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Tulsa, OK                  | 5448          | COMPOSITE       | (d)           | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Las Vegas, NV              | 4218          | COMPOSITE       | (m)           | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Houston, TX                | 5686          | COMP+CAN        | (s)           | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Fort Worth, TX             | 5403          | COMPOSITE       | (s)           | 175 U                         | A                     |
| U.S. Glass Distributors Inc.                          | Enfield, CT                | 5917          | COMP+CAN        | (d)           | 400 U                         | A                     |
| United Plate Glass Company of<br>Charlotte            | Lincolnton, NC             | 4636          | COMPOSITE       | (d)           | 165 U                         | A                     |
| Wisconsin Shower Door & Supply<br>Corp                | Menomonee Falls, WI        | 5593          | COMPOSITE       | (m)           | 600 U                         | A                     |

***Certified Products-By Product Type***

|                                                              |                    | <u>SGCC #</u> | <u>Standard</u> |     | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------------------|--------------------|---------------|-----------------|-----|---------------|-------------------------------|-----------------------|
| 3/16 Inch Tempered Patterned Glass                           |                    |               |                 |     |               |                               |                       |
| AGC Flat Glass North America                                 | Greenland, TN      | 1139          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| AGC Glass Co. North America<br>Building Products Fabrication | Quakertown, PA     | 3698          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| AGC Glass Co. North America<br>Building Products Fabrication | Boardman, OH       | 5476          | COMP+CAN        | (m) |               | 800 U                         | A                     |
| Aldora Aluminum and Glass Products<br>Inc.                   | Charleston, SC     | 4334          | COMPOSITE       | (d) |               | 285 U                         | A                     |
| American Insulated Glass Inc.                                | Conley, GA         | 5289          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| Amsco Windows                                                | Salt Lake City, UT | 2584          | COMPOSITE       | (m) |               | 750 U                         | A                     |
| Architectural Glass Products, LLC.                           | St. Louis, MO      | 4574          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Basco Engineered Products                                    | Hamilton, OH       | 4688          | COMPOSITE       | (m) |               | 200 U                         | A                     |
| Cardinal CG                                                  | Buford, GA         | 4599          | COMP+CAN        | (s) |               | 165 U                         | A                     |
| Cardinal CG                                                  | Moreno Valley, CA  | 5336          | COMP+CAN        | (s) |               | 250 U                         | A                     |
| Cardinal CG                                                  | Northfield, MN     | 2013          | COMP+CAN        | (m) |               | 150 U                         | A                     |
| Cardinal CG                                                  | Waxahachie, TX     | 2705          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Cardinal CG                                                  | Tumwater, WA       | 2956          | COMP+CAN        | (m) |               | 195 U                         | A                     |
| Cardinal CG                                                  | Loveland, CO       | 4345          | COMPOSITE       | (m) |               | 500 U                         | A                     |
| Cardinal CG                                                  | Galt, CA           | 3601          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Cardinal CT                                                  | Adel, GA           | 5100          | COMPOSITE       | (d) |               | 165 U                         | A                     |
| Cardinal CT                                                  | Los Angeles, CA    | 5089          | COMP+CAN        | (m) |               | 250 U                         | A                     |
| Cardinal CT                                                  | Easton, PA         | 4761          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Cardinal CT                                                  | Utica, OH          | 4625          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Cardinal CT                                                  | Mount Airy, NC     | 4582          | COMP+CAN        | (s) |               | 165 U                         | A                     |
| Cardinal CT - S                                              | Irving TX          | 5106          | COMPOSITE       | (d) |               | 175 U                         | A                     |
| Cardinal CT - W                                              | Irving TX          | 5250          | COMPOSITE       | (d) |               | 175 U                         | A                     |
| Cardinal IG                                                  | Hood River, OR     | 2859          | COMP+CAN        | (m) |               | 195 U                         | A                     |
| Cardinal IG                                                  | Mountain Top, PA   | 3072          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Cardinal IG                                                  | Greenfield, IA     | 1843          | COMP+CAN        | (s) |               | 500 U                         | A                     |
| Cardinal IG                                                  | Casa Grande, AZ    | 4105          | COMP+CAN        | (s) |               | 250 U                         | A                     |
| Cardinal IG                                                  | Spring Green, WI   | 5912          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Cardinal IG                                                  | Fargo, ND          | 2286          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Cardinal IG                                                  | Tomah, WI          | 2323          | COMP+CAN        | (d) |               | 600 U                         | A                     |
| Cardinal IG                                                  | Waxahachie, TX     | 2399          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Cardinal IG                                                  | Vinton, VA         | 3619          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Cardinal IG                                                  | Fremont, IN        | 2205          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Consolidated Glass Corp.                                     | New Castle, PA     | 2354          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| Contour Industries, Inc.                                     | Surgoinsville, TN  | 4705          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Contractors Wardrobe                                         | Valencia, CA       | 3475          | COMP+CAN        | (d) |               | 250 U                         | A                     |
| Coral Industries Glass Division                              | Tuscaloosa, AL     | 1964          | COMPOSITE       | (d) |               | 165 U                         | A                     |
| Downey Glass Industries, LLC                                 | Pompano Beach, FL  | 3487          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| EFCO Corporation                                             | Monett, MO         | 2143          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Flat Glass Distributors                                      | Jacksonville, FL   | 3830          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| General Glass                                                | Portland, OR       | 5748          | COMPOSITE       | (s) |               | 195 U                         | A                     |
| GGI Glass Distributors Corp.                                 | Secaucus, NJ       | 3971          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| GlassFab Tempering Services, Inc.<br>Mariani Ct.             | Tracy, CA          | 4895          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Glaz-Tech Industries, Inc.                                   | Englewood, CO      | 2193          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Guardian Fabrication Inc.                                    | Webster, MA        | 2603          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Guardian IG LLC                                              | Sun Prairie, WI    | 5646          | COMP+CAN        | (d) |               | 600 U                         | A                     |
| Guardian Industries Corp.                                    | Galax, VA          | 4613          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| Guardian Industries Corp.                                    | Richburg, SC       | 1865          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Guardian Industries Corp.                                    | Corsicana, TX      | 2460          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Guardian Industries Corp.                                    | Kingsburg, CA      | 1304          | COMP+CAN        | (m) |               | 125 U                         | A                     |

***Certified Products-By Product Type***

|  |  |  |  |  | <u>Max Size</u>  | <u>ANSI</u>  |
|--|--|--|--|--|------------------|--------------|
|  |  |  |  |  | <u>Certified</u> | <u>CLASS</u> |
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***Certified Products-By Product Type***

|                                                  |                            | <u>SGCC #</u> | <u>Standard</u> |         | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------|----------------------------|---------------|-----------------|---------|---------------|-------------------------------|-----------------------|
| <i>3/16 Inch Tempered Patterned Glass</i>        |                            |               |                 |         |               |                               |                       |
| Trulite Glass and Aluminum Solutions             | Houston, TX                | 3931          | COMP+CAN        | (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Atlanta, GA                | 3554          | COMPOSITE       | (s)     |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | New Berlin, WI             | 5325          | COMPOSITE       | (s)     |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Phoenix, AZ                | 5706          | COMPOSITE       | (m)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Fort Worth, TX             | 5404          | COMPOSITE       | (m)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Aurora, CO                 | 5349          | COMPOSITE       | (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | San Antonio, TX            | 4342          | COMPOSITE       | (m)     |               | 175 U                         | A                     |
| U.S. Glass Distributors Inc.                     | Enfield, CT                | 5918          | COMP+CAN        | (m)     |               | 400 U                         | A                     |
| United Plate Glass Company of<br>Charlotte       | Lincolnton, NC             | 3955          | COMP+CAN        | (d)     |               | 165 U                         | A                     |
| W. A. Wilson Inc.                                | Wheeling, WV               | 4175          | COMPOSITE       | (d)     |               | 200 U                         | A                     |
| Wisconsin Shower Door & Supply<br>Corp           | Menomonee Falls, WI        | 5594          | COMPOSITE       | (s)     |               | 600 U                         | A                     |
| WSD Glass, Inc.                                  | Winston-Salem, NC          | 4051          | COMPOSITE       | (s)     |               | 165 U                         | A                     |
| <i>7/32 Inch Tempered Patterned Glass</i>        |                            |               |                 |         |               |                               |                       |
| Guardian Fabrication Inc.                        | Webster, MA                | 3024          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| <i>1/4 Inch Tempered Patterned Glass</i>         |                            |               |                 |         |               |                               |                       |
| Aldora Aluminum and Glass Products<br>Inc.       | Charleston, SC             | 4338          | COMPOSITE       | (m)     |               | 285 U                         | A                     |
| American Shower Door                             | Los Angeles, CA            | 3042          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Basco Engineered Products                        | Hamilton, OH               | 4689          | COMPOSITE       | (s)     |               | 200 U                         | A                     |
| Cardinal CG                                      | Loveland, CO               | 5720          | COMPOSITE       | (d)     |               | 500 U                         | A                     |
| Cardinal IG                                      | Ocala, FL                  | 4587          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| Consolidated Glass Corp.                         | New Castle, PA             | 4714          | COMP+CAN        | (m)     |               | 285 U                         | A                     |
| Contractors Wardrobe                             | Valencia, CA               | 3476          | COMP+CAN        | (m)     |               | 250 U                         | A                     |
| Coral Industries Glass Division                  | Tuscaloosa, AL             | 2944          | COMPOSITE       | (d)     |               | 165 U                         | A                     |
| Denver Glass Interiors, Inc.                     | Englewood, CO              | 4507          | COMPOSITE       | (m)     |               | 175 U                         | A                     |
| Dongguan Trillion Aluminum Glass<br>Co., Ltd     | Dongguan, Guangdong, China | 5864          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| Flat Glass Distributors                          | Jacksonville, FL           | 3831          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware<br>Technology Co., Ltd | Nan'an Fujian China        | 5218          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| GGI Glass Distributors Corp.                     | Secaucus, NJ               | 3972          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| GlassFab Tempering Services, Inc.<br>Mariani Ct. | Tracy, CA                  | 4896          | COMPOSITE       | (m)     |               | 125 U                         | A                     |
| Guardian Fabrication Inc.                        | Webster, MA                | 4656          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| Guardian IG LLC                                  | Sun Prairie, WI            | 5647          | COMP+CAN        | (d)     |               | 600 U                         | A                     |
| Guardian Industries Corp.                        | Kingsburg, CA              | 1882          | COMP+CAN        | (m)     |               | 125 U                         | A                     |
| Guardian Industries Corp.                        | Corsicana, TX              | 5142          | COMP+CAN        | (m)     |               | 175 U                         | A                     |
| Guardian Industries Corp.                        | Richburg, SC               | 3002          | COMPOSITE       | (m)     |               | 285 U                         | A                     |
| Jiaxing Joinbath Corporation                     | Jiaxing, Zhejiang, China   | 5712          | COMPOSITE       | (m)     |               | 125 U                         | A                     |
| Kohler Company                                   | Union City, TN             | 2918          | COMPOSITE       | (IN)(m) |               | 165 U                         | A                     |
| McGrory Glass                                    | Paulsboro, NJ              | 4818          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| Mercer Glass Fab LLC                             | Trenton, NJ                | 4257          | COMPOSITE       | (m)     |               | 100 U                         | A                     |
| Midwest Glass Fabricators Inc.                   | Highland, MI               | 6036          | COMP+CAN        | (s)     |               | 200 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Denver, CO                 | 3320          | COMP+CAN        | (s)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Vancouver, WA              | 3229          | COMP+CAN        | (m)     |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Albertville, MN            | 3561          | COMP+CAN        | (s)     |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Covington, GA              | 3339          | COMP+CAN        | (m)     |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Phoenix, AZ                | 3999          | COMP+CAN        | (s)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Tampa, FL                  | 3125          | COMP+CAN        | (m)     |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Warrenton, MO              | 3154          | COMP+CAN        | (m)     |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Los Angeles, CA            | 4133          | COMP+CAN        | (s)     |               | 125 U                         | A                     |

**Certified Products-By Product Type**

|                                               |                            | <u>SGCC #</u> | <u>Standard</u> |         | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------|----------------------------|---------------|-----------------|---------|---------------|-------------------------------|-----------------------|
| 1/4 Inch Tempered Patterned Glass             |                            |               |                 |         |               |                               |                       |
| Oldcastle BuildingEnvelope®                   | Moorestown, NJ             | 3189          | COMP+CAN        | (m)     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Rock Hill, SC              | 3284          | COMP+CAN        | (d)     |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Houston, TX                | 3165          | COMP+CAN        | (m)     |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Fremont, CA                | 3907          | COMP+CAN        | (m)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Indianapolis, IN           | 5442          | COMP+CAN        | (d)     |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Schofield, WI              | 3179          | COMP+CAN        | (d)     |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Miami, FL                  | 4477          | COMP+CAN        | (d)     |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Perrysburg, OH             | 3244          | COMP+CAN        | (m)     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Calgary, AB                | 3275          | COMP+CAN        | (m)     |               | 750 U                         | A                     |
| PFG Glass                                     | Langley, BC                | 3711          | COMP+CAN        | (m)     |               | 750 U                         | A                     |
| Quaker Window Products, Inc.                  | Freeburg, MO               | 2970          | COMP+CAN        | (IN)(m) |               | 150 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd           | Dongguan, Guangdong, China | 5068          | COMP+CAN        | (m)     |               | 285 U                         | A                     |
| Techni-Glass, Inc.                            | Surgoinsville, TN          | 3060          | COMP+CAN        | (m)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Fresno, CA                 | 5831          | COMPOSITE       | (m)     |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Las Vegas, NV              | 4220          | COMPOSITE       | (m)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Sacramento, CA             | 5817          | COMPOSITE       | (m)     |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Fremont, CA                | 5804          | COMPOSITE       | (m)     |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Tulsa, OK                  | 5450          | COMPOSITE       | (m)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Atlanta, GA                | 4555          | COMPOSITE       | (m)     |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Orlando, FL                | 5191          | COMPOSITE       | (m)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Knoxville, TN              | 4980          | COMPOSITE       | (d)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Phoenix, AZ                | 5707          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | City of Industry, CA       | 4189          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| U.S. Glass Distributors Inc.                  | Enfield, CT                | 5919          | COMP+CAN        | (s)     |               | 400 U                         | A                     |
| Wisconsin Shower Door & Supply Corp           | Menomonee Falls, WI        | 5595          | COMPOSITE       | (m)     |               | 600 U                         | A                     |
| 3/8 Inch Tempered Patterned Glass             |                            |               |                 |         |               |                               |                       |
| Aldora Aluminum and Glass Products Inc.       | Charleston, SC             | 4339          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| American Shower Door                          | Los Angeles, CA            | 3043          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Basco Engineered Products                     | Hamilton, OH               | 5203          | COMPOSITE       | (m)     |               | 200 U                         | A                     |
| Consolidated Glass Corp.                      | New Castle, PA             | 4785          | COMP+CAN        | (s)     |               | 285 U                         | A                     |
| Contractors Wardrobe                          | Valencia, CA               | 3477          | COMP+CAN        | (s)     |               | 250 U                         | A                     |
| Coral Industries Glass Division               | Tuscaloosa, AL             | 2945          | COMPOSITE       | (d)     |               | 165 U                         | A                     |
| Denver Glass Interiors, Inc.                  | Englewood, CO              | 4508          | COMPOSITE       | (s)     |               | 175 U                         | A                     |
| Downey Glass Industries, LLC                  | Pompano Beach, FL          | 4626          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| Flat Glass Distributors                       | Jacksonville, FL           | 4638          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| GGI Glass Distributors Corp.                  | Secaucus, NJ               | 3973          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| GlassFab Tempering Services, Inc. Mariani Ct. | Tracy, CA                  | 4897          | COMPOSITE       | (s)     |               | 125 U                         | A                     |
| Guardian Industries Corp.                     | Corsicana, TX              | 5133          | COMP+CAN        | (m)     |               | 175 U                         | A                     |
| Guardian Industries Corp.                     | Galax, VA                  | 4627          | COMP+CAN        | (s)     |               | 285 U                         | A                     |
| Guardian Industries Corp.                     | Richburg, SC               | 3003          | COMPOSITE       | (m)     |               | 285 U                         | A                     |
| Interglass Corp                               | Miami, FL                  | 5027          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| McGrory Glass                                 | Paulsboro, NJ              | 4819          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| Mercer Glass Fab LLC                          | Trenton, NJ                | 4258          | COMPOSITE       | (m)     |               | 100 U                         | A                     |
| Midwest Glass Fabricators Inc.                | Highland, MI               | 6037          | COMP+CAN        | (m)     |               | 200 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Vancouver, WA              | 3230          | COMP+CAN        | (m)     |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Albertville, MN            | 3127          | COMP+CAN        | (m)     |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Covington, GA              | 3340          | COMP+CAN        | (s)     |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Tampa, FL                  | 4340          | COMP+CAN        | (s)     |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Rock Hill, SC              | 3285          | COMP+CAN        | (d)     |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                   | Moorestown, NJ             | 3190          | COMP+CAN        | (s)     |               | 100 U                         | A                     |

**Certified Products-By Product Type**

|                                                                                            |                               | <u>SGCC #</u> | <u>Standard</u> |         | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------------------------------------------------|-------------------------------|---------------|-----------------|---------|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Patterned Glass                                                          |                               |               |                 |         |               |                               |                       |
| Oldcastle BuildingEnvelope®                                                                | Phoenix, AZ                   | 3729          | COMP+CAN        | (s)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Warrenton, MO                 | 3155          | COMP+CAN        | (d)     |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Houston, TX                   | 3166          | COMP+CAN        | (s)     |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Langley, BC                   | 4710          | COMP+CAN        | (s)     |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Indianapolis, IN              | 3259          | COMP+CAN        | (s)     |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Denver, CO                    | 3321          | COMP+CAN        | (s)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Los Angeles, CA               | 3793          | COMP+CAN        | (d)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Calgary, AB                   | 3262          | COMP+CAN        | (d)     |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Perrysburg, OH                | 3245          | COMP+CAN        | (m)     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Miami, FL                     | 3503          | COMP+CAN        | (s)     |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Grand Prairie, TX             | 3428          | COMP+CAN        | (s)     |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Fremont, CA                   | 3203          | COMP+CAN        | (s)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                                                                | Concord, ON                   | 3448          | COMP+CAN        | (s)     |               | 100 U                         | A                     |
| SIGCO, Inc.                                                                                | Westbrook, ME                 | 4206          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| Troy Systems LLC                                                                           | Manassas, VA                  | 5123          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Fort Worth, TX                | 5405          | COMPOSITE       | (m)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Knoxville, TN                 | 5134          | COMPOSITE       | (m)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Las Vegas, NV                 | 4221          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Phoenix, AZ                   | 5747          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Sacramento, CA                | 5818          | COMPOSITE       | (s)     |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | New Berlin, WI                | 5327          | COMPOSITE       | (m)     |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Tulsa, OK                     | 5451          | COMPOSITE       | (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Cheswick, PA                  | 4453          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | City of Industry, CA          | 4374          | COMPOSITE       | (s)     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Fremont, CA                   | 5805          | COMPOSITE       | (S)     |               | 125 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Aurora, CO                    | 5350          | COMPOSITE       | (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Atlanta, GA                   | 4554          | COMPOSITE       | (s)     |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Orlando, FL                   | 5192          | COMPOSITE       | (s)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                       | Fresno, CA                    | 5832          | COMPOSITE       | (S)     |               | 125 U                         | A                     |
| U.S. Glass Distributors Inc.                                                               | Enfield, CT                   | 5920          | COMP+CAN        | (s)     |               | 400 U                         | A                     |
| W. A. Wilson Inc.                                                                          | Wheeling, WV                  | 4176          | COMPOSITE       | (s)     |               | 200 U                         | A                     |
| Wisconsin Shower Door & Supply Corp                                                        | Menomonee Falls, WI           | 5596          | COMPOSITE       | (m)     |               | 600 U                         | A                     |
| 1/2 Inch Tempered Patterned Glass                                                          |                               |               |                 |         |               |                               |                       |
| Coral Industries Glass Division                                                            | Tuscaloosa, AL                | 3817          | COMPOSITE       | (m)     |               | 165 U                         | A                     |
| GGI Glass Distributors Corp.                                                               | Secaucus, NJ                  | 3974          | COMPOSITE       | (IN)(s) |               | 100 U                         | A                     |
| McGrory Glass                                                                              | Paulsboro, NJ                 | 4820          | COMPOSITE       | (s)     |               | 100 U                         | A                     |
| Wisconsin Shower Door & Supply Corp                                                        | Menomonee Falls, WI           | 5597          | COMPOSITE       | (m)     |               | 600 U                         | A                     |
| <b><u>Tempered Bent Patterned Glass</u></b>                                                |                               |               |                 |         |               |                               |                       |
| 6 mm Tempered Bent Patterned Glass (Conforms to thickness tolerance other than ASTM C1036) |                               |               |                 |         |               |                               |                       |
| Bendheim Wall Systems                                                                      | Wunsiedel-Holenbrunn, Germany | 5145          | COMPOSITE       | (s)(2)  |               | 100 20x76                     | A                     |
| 7 mm Tempered Bent Patterned Glass (Conforms to thickness tolerance other than ASTM C1036) |                               |               |                 |         |               |                               |                       |
| Bendheim Wall Systems                                                                      | Wunsiedel-Holenbrunn, Germany | 5144          | COMPOSITE       | (s)(2)  |               | 100 16x76                     | A                     |
| <b><u>Tempered Bent Glass</u></b>                                                          |                               |               |                 |         |               |                               |                       |
| 5/32 Inch Tempered Bent Glass                                                              |                               |               |                 |         |               |                               |                       |
| Anthony International                                                                      | Madison, GA                   | 2305          | COMPOSITE       |         |               | 165 U                         | A                     |
| JYC Glass Co. Ltd.                                                                         | Foshan, Guangdong, China      | 3991          | COMP+CAN        |         |               | 125 U                         | A                     |
| Saint-Gobain SOVIS                                                                         | Thierry, France               | 1992          | COMPOSITE       |         |               | 400 L 47x34                   | A                     |
| Valentini Glass & Components srl                                                           | Brescia, Italy                | 4246          | COMPOSITE       |         |               | 400 U                         | A                     |

**Certified Products-By Product Type**

|                                                                                         |                               | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u>     | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------------------------------------------------|-------------------------------|---------------|-----------------|-------------------|-------------------------------|-----------------------|
| <b>3/16 Inch Tempered Bent Glass</b>                                                    |                               |               |                 |                   |                               |                       |
| Anthony International                                                                   | Madison, GA                   | 2306          | COMPOSITE       |                   | 165 U                         | A                     |
| Jiaxing Joinbath Corporation                                                            | Jiaxing, Zhejiang, China      | 5713          | COMPOSITE       |                   | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                      | Foshan, Guangdong, China      | 3992          | COMP+CAN        |                   | 125 U                         | A                     |
| Paragon Tempered Glass                                                                  | Antwerp, OH                   | 5242          | COMPOSITE       |                   | 500 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                        | Foshan, Guangdong, China      | 3742          | COMP+CAN        |                   | 285 U                         | A                     |
| <b>1/4 Inch Tempered Bent Glass</b>                                                     |                               |               |                 |                   |                               |                       |
| Anthony International                                                                   | Madison, GA                   | 2307          | COMPOSITE       |                   | 165 U                         | A                     |
| Dlubak Corporation                                                                      | Blairsville, PA               | 5965          | COMPOSITE       |                   | 100 U                         | A                     |
| Foshan Nanhai Gangsheng<br>Tempered Glass Factory                                       | Foshan, Guangdong, China      | 5550          | COMP+CAN        | (IN)              | 125 U                         | A                     |
| Jiangmen SYP Engineering Glass                                                          | Jiangmen, Guangdong, China    | 5052          | COMP+CAN        |                   | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                      | Foshan, Guangdong, China      | 3993          | COMP+CAN        |                   | 125 U                         | A                     |
| Paragon Tempered Glass                                                                  | Antwerp, OH                   | 4811          | COMPOSITE       |                   | 500 U                         | A                     |
| Valentini Glass & Components srl                                                        | Brescia, Italy                | 2898          | COMPOSITE       |                   | 400 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                        | Foshan, Guangdong, China      | 3743          | COMP+CAN        |                   | 285 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co.,<br>LTD.                                             | Foshan, Guangdong, China      | 5894          | COMPOSITE       |                   | 285 U                         | A                     |
| <b>6 mm Tempered Bent Glass (Conforms to thickness tolerance other than ASTM C1036)</b> |                               |               |                 |                   |                               |                       |
| Bendheim Wall Systems                                                                   | Wunsiedel-Holenbrunn, Germany | 2570          | COMPOSITE       | (2)               | 100 20x76                     | A                     |
| <b>7 mm Tempered Bent Glass (Conforms to thickness tolerance other than ASTM C1036)</b> |                               |               |                 |                   |                               |                       |
| Bendheim Wall Systems                                                                   | Wunsiedel-Holenbrunn, Germany | 2569          | COMPOSITE       | (2)               | 100 16x76                     | A                     |
| <b>5/16 Inch Tempered Bent Glass</b>                                                    |                               |               |                 |                   |                               |                       |
| Foshan Nanhai Gangsheng<br>Tempered Glass Factory                                       | Foshan, Guangdong, China      | 5551          | COMP+CAN        | (IN)              | 125 U                         | A                     |
| Jiangmen SYP Engineering Glass                                                          | Jiangmen, Guangdong, China    | 5053          | COMP+CAN        |                   | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                      | Foshan, Guangdong, China      | 3994          | COMP+CAN        |                   | 125 U                         | A                     |
| <b>3/8 Inch Tempered Bent Glass</b>                                                     |                               |               |                 |                   |                               |                       |
| Foshan Nanhai Gangsheng<br>Tempered Glass Factory                                       | Foshan, Guangdong, China      | 5552          | COMP+CAN        | (IN)              | 125 U                         | A                     |
| Jiangmen SYP Engineering Glass                                                          | Jiangmen, Guangdong, China    | 5054          | COMP+CAN        |                   | 125 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co.,<br>LTD.                                             | Foshan, Guangdong, China      | 5895          | COMPOSITE       |                   | 285 U                         | A                     |
| <b>1/2 Inch Tempered Bent Glass</b>                                                     |                               |               |                 |                   |                               |                       |
| Jiangmen SYP Engineering Glass                                                          | Jiangmen, Guangdong, China    | 5055          | COMP+CAN        |                   | 125 U                         | A                     |
| <b><u>Laminated Transparent Glass</u></b>                                               |                               |               |                 |                   |                               |                       |
| <b>(S) Laminated Transparent Glass</b>                                                  |                               |               |                 |                   |                               |                       |
| 5-6mm Cardinal IG                                                                       | Ocala, FL                     | 4361          | COMPOSITE       | (.035) (ip)(A)    | 285 U                         | A                     |
| 5mm Cardinal LG                                                                         | Amery, WI                     | 4120          | COMP+CAN        | (.015)(C1) (b)(A) | 150 U                         | B                     |
| 5-6mm Cardinal LG                                                                       | Amery, WI                     | 4350          | COMP+CAN        | (.035) (ip)(A)    | 150 U                         | A                     |
| 5-6mm Cardinal LG                                                                       | Amery, WI                     | 2976          | COMP+CAN        | (.030) (b)(A)     | 150 U                         | A                     |
| 5-6mm Cardinal LG Northeast                                                             | Jessup, PA                    | 5224          | COMP+CAN        | (.030) (b)(A)     | 400 U                         | A                     |
| 5-6mm Pennsylvania Insulating Glass                                                     | Lewistown, PA                 | 3918          | COMPOSITE       | (.030) (b)(A)     | 100 U                         | A                     |
| 5-6mm Trulite Glass and Aluminum<br>Solutions                                           | Grenada, MS                   | 4743          | COMPOSITE       | (.015) (b)(A)     | 500 U                         | A                     |
| <b>(S) Laminated Transparent Glass</b>                                                  |                               |               |                 |                   |                               |                       |
| 6mm Berkowitz, J.E.                                                                     | Pedricktown, NJ               | 5222          | COMP+CAN        | (.030) (b)(A)     | 100 U                         | A                     |
| 6mm Cardinal IG                                                                         | Ocala, FL                     | 3509          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 6mm Consolidated Armor Products,<br>LLC                                                 | Addison, TX                   | 5418          | COMP+CAN        | (.030) (b)(A)     | 175 U                         | A                     |
| 6mm Dlubak Corporation                                                                  | Blairsville, PA               | 5685          | COMPOSITE       | (.030) (b)(A)     | 100 U                         | A                     |

**Certified Products-By Product Type**

|                                                   |                             |      |           |                         | <u>Max Size</u>  | <u>ANSI</u>  |
|---------------------------------------------------|-----------------------------|------|-----------|-------------------------|------------------|--------------|
|                                                   |                             |      |           |                         | <u>Certified</u> | <u>CLASS</u> |
|                                                   |                             |      |           |                         | <u>Lab ID</u>    |              |
| <i>(S) Laminated Transparent Glass</i>            |                             |      |           |                         |                  |              |
| 6mm Downey Glass Industries, LLC                  | Pompano Beach, FL           | 5121 | COMPOSITE | (.035) (ip)(A)          | 285 U            | A            |
| 6mm Fairis C.A.                                   | Ambato, Tungurahua, Ecuador | 4722 | COMPOSITE | (.030) (b)(A)           | 285 U            | A            |
| 6mm Glass Dynamics, Inc.                          | Stoneville, NC              | 4413 | COMPOSITE | (.035) (ip)(A)          | 285 U            | A            |
| 6mm Glass Dynamics, Inc.                          | Stoneville, NC              | 4375 | COMPOSITE | (.030) (b)(A)           | 285 U            | A            |
| 6mm GlassFab Tempering Services, Inc. Mariani Ct. | Tracy, CA                   | 4898 | COMPOSITE | (.030) (b)(A)           | 125 U            | A            |
| 6mm Global Security Glazing                       | Selma, AL                   | 4769 | COMP+CAN  | (.030) (b)(A)           | 285 U            | A            |
| 6mm Guardian Industries Corp.                     | Galax, VA                   | 4633 | COMP+CAN  | (.030) (b)(A)           | 285 U            | A            |
| 6mm Guardian Industries Corp.                     | Galax, VA                   | 4800 | COMP+CAN  | (.075) (b)(p)(el)(6)(A) | 285 U            | A            |
| 6mm Insulite Glass Co., Inc.                      | Olathe, KS                  | 3718 | COMPOSITE | (.030) (b)(A)           | 150 U            | A            |
| 6mm Kawneer - (Cranberry) a division of Alcoa     | Cranberry Township, PA      | 5369 | COMPOSITE | (.030) (b)(A)           | 100 U            | A            |
| 6mm Multiver Inc.                                 | Montreal, QC                | 5913 | COMP+CAN  | (.015) (b)(A)           | 400 U            | B            |
| 6mm Nashville Tempered Glass LLC                  | Hendersonville, TN          | 5229 | COMP+CAN  | (.015) (b)(A)           | 285 U            | B            |
| 6mm Oldcastle BuildingEnvelope®                   | Los Angeles, CA             | 5630 | COMP+CAN  | (.035) (ip)(A)          | 125 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Tampa, FL                   | 4448 | COMP+CAN  | (.030) (b)(A)           | 285 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Miami, FL                   | 4001 | COMP+CAN  | (.030) (b)(A)           | 285 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Grand Prairie, TX           | 5459 | COMP+CAN  | (.030) (b)(A)           | 175 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Langley, BC                 | 4475 | COMP+CAN  | (.030) (b)(A)           | 750 U            | B            |
| 6mm Oldcastle BuildingEnvelope®                   | Schofield, WI               | 3176 | COMP+CAN  | (.030) (b)(A)           | 600 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Denver, CO                  | 4533 | COMP+CAN  | (.030) (b)(A)           | 125 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Los Angeles, CA             | 4346 | COMP+CAN  | (.030) (b)(A)           | 125 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Miami, FL                   | 4397 | COMP+CAN  | (.035) (ip)(A)          | 285 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Wright City, MO             | 4526 | COMP+CAN  | (.030) (b)(A)           | 150 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Perrysburg, OH              | 4700 | COMP+CAN  | (.030) (b)(A)           | 100 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Hauppauge, NY               | 5718 | COMP+CAN  | (.060) (ip)(A)          | 400 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Fremont, CA                 | 4531 | COMP+CAN  | (.030) (b)(A)           | 125 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Wright City, MO             | 4528 | COMP+CAN  | (.035) (ip)(A)          | 150 U            | A            |
| 6mm Oldcastle BuildingEnvelope®                   | Hauppauge, NY               | 3392 | COMP+CAN  | (.030) (b)(A)           | 400 U            | A            |
| 6mm Oldcastle BuildingEnvelope® Canada Inc.       | Pointe-aux-Trembles, QC     | 4432 | COMP+CAN  | (.035) (ip)(A)          | 100 U            | A            |
| 6mm Oldcastle BuildingEnvelope® Canada Inc.       | Pointe-aux-Trembles, QC     | 5025 | COMP+CAN  | (.030) (b)(A)           | 100 U            | A            |
| 6mm Oldcastle BuildingEnvelope® Canada Inc.       | Pointe-aux-Trembles, QC     | 5024 | COMP+CAN  | (.015)(C1) (b)(A)       | 100 U            | B            |
| 6mm Phoenicia Flat Glass Industries               | Nazaret, Ilit Israel        | 5290 | COMPOSITE | (.030) (b)(A)           | 100 U            | A            |
| 6mm Phoenicia Flat Glass Industries               | Nazaret, Ilit Israel        | 5786 | COMPOSITE | (.015) (b)(A)           | 100 U            | B            |
| 6mm Prelco Inc.                                   | Riviere-du-loup, QC         | 4905 | COMP+CAN  | (.030) (b)(A)           | 800 U            | A            |
| 6mm Qingdao Laurel Enterprise Co., Ltd.           | Qingdao City, China         | 5689 | COMPOSITE | (.015) (b)(A)           | 200 U            | A            |
| 6mm Rizhao Huaye Glass Co., Ltd.                  | Rizhao, Shandong            | 5580 | COMP+CAN  | (.015) (b)(A)           | 285 U            | B            |
| 6mm SAAND Rexdale                                 | Rexdale, ON                 | 5001 | COMP+CAN  | (.030) (b)(A)           | 400 U            | A            |
| 6mm Saint Gobain Mexico, S.A. de C.V.             | Cuautla, Morelos, Mexico    | 5905 | COMPOSITE | (.015) (b)(A)           | 400 U            | B            |
| 6mm Saint Gobain Mexico, S.A. de C.V.             | Cuautla, Morelos, Mexico    | 5907 | COMPOSITE | (.030) (b)(A)           | 400 U            | A            |
| 6mm Shanghai SYP Building Glass                   | Shanghai, China             | 2779 | COMPOSITE | (.030) (b)(A)           | 125 U            | A            |
| 6mm Tacoma Glass Mfg. Inc.                        | Lakewood, WA                | 5112 | COMPOSITE | (.030) (b)(A)           | 195 U            | A            |
| 6mm Taiwan Glass Industry Corp.                   | Taipei, Taiwan, China       | 5490 | COMP+CAN  | (.030) (b)(A)           | 750 U            | A            |
| 6mm Thermo BSL                                    | Riviere-du-loup, QC         | 5672 | COMP+CAN  | (.030) (b)(A)           | 800 U            | A            |
| 6mm Thompson I.G. LLC.                            | Fenton, MI                  | 5300 | COMP+CAN  | (.030) (b)(A)           | 100 U            | A            |
| 6mm Tri-Star Glass, Inc.                          | Tulsa, OK                   | 5441 | COMPOSITE | (.030) (b)(A)           | 175 U            | A            |
| 6mm Triview Glass Industries                      | City of Industry, CA        | 5047 | COMP+CAN  | (.030) (b)(A)           | 250 U            | A            |
| 6mm Trulite Glass and Aluminum Solutions          | Columbus, OH                | 3407 | COMPOSITE | (.030) (b)(A)           | 200 U            | A            |

**Certified Products-By Product Type**

|                                                      |                                    | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u>           | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|------------------------------------------------------|------------------------------------|---------------|-----------------|-------------------------|-------------------------------|-----------------------|
| <i>(S) Laminated Transparent Glass</i>               |                                    |               |                 |                         |                               |                       |
| 6mm Trulite Glass and Aluminum Solutions             | Atlanta, GA                        | 3536          | COMPOSITE       | (.030) (b)(A)           | 165 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions             | Houston, TX                        | 5434          | COMP+CAN        | (.030) (b)(A)           | 175 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions             | Orlando, FL                        | 3461          | COMPOSITE       | (.030) (b)(A)           | 285 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions             | Vaughan, ON                        | 5631          | COMP+CAN        | (.030) (b)(A)           | 450 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions             | New Berlin, WI                     | 3430          | COMPOSITE       | (.030) (b)(A)           | 150 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions             | City of Industry, CA               | 4233          | COMPOSITE       | (.030) (b)(A)           | 250 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions             | Youngsville, NC                    | 4437          | COMPOSITE       | (.030) (b)(A)           | 165 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions             | Fort Worth, TX                     | 3603          | COMPOSITE       | (.030) (b)(A)           | 175 U                         | A                     |
| 6mm Vidrio Bisel S.A. de C.V.                        | Santa Catarina, Nuevo Leon, Mexico | 4968          | COMPOSITE       | (.030) (b)(A)           | 175 U                         | A                     |
| 6mm Vidrio Bisel S.A. de C.V.                        | Santa Catarina, Nuevo Leon, Mexico | 4969          | COMPOSITE       | (.015)(C1) (b)(A)       | 175 U                         | B                     |
| 6mm Viracon Inc.                                     | Statesboro, GA                     | 5017          | COMP+CAN        | (.030) (b)(A)           | 165 U                         | A                     |
| 6mm Viracon Inc.                                     | Owatonna, MN                       | 1637          | COMP+CAN        | (.030) (b)(A)           | 150 U                         | A                     |
| 6mm Xinyi Glass (Tianjin) Co. Ltd.                   | Tianjin, China                     | 5538          | COMP+CAN        | (.030) (b)(A)           | 195 U                         | A                     |
| 6mm Xinyi Group (Glass) Co., Ltd.                    | Dongguan, Guangdong, China         | 3056          | COMP+CAN        | (.030) (b)(A)           | 125 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>               |                                    |               |                 |                         |                               |                       |
| 8-16+mm Al Abbar Architectural Glass                 | Dubai, United Arab Emirates        | 3560          | COMPOSITE       | (.030) (b)(A)           | 100 U                         | A                     |
| 8, 12mm Aldora Aluminum and Glass Products Inc.      | Charleston, SC                     | 4337          | COMPOSITE       | (.060) (lu)(A)          | 285 U                         | A                     |
| 8-16+mm Berkowitz, J.E.                              | Pedricktown, NJ                    | 3750          | COMP+CAN        | (.030) (b)(A)           | 100 U                         | A                     |
| 8-12mm Cardinal IG                                   | Ocala, FL                          | 3510          | COMPOSITE       | (.030) (b)(A)           | 285 U                         | A                     |
| 8-12mm Cardinal IG                                   | Ocala, FL                          | 4362          | COMPOSITE       | (.035) (ip)(A)          | 285 U                         | A                     |
| 8-12mm Cardinal LG                                   | Amery, WI                          | 2462          | COMP+CAN        | (.030) (b)(A)           | 150 U                         | A                     |
| 8-12mm Cardinal LG                                   | Amery, WI                          | 4351          | COMP+CAN        | (.035) (ip)(A)          | 150 U                         | A                     |
| 8-12mm Cardinal LG Northeast                         | Jessup, PA                         | 5225          | COMP+CAN        | (.030) (b)(A)           | 400 U                         | A                     |
| 8mm Changshu Zhongxin Bldg. Mat. Co.                 | Changshu City, China               | 4363          | COMP+CAN        | (.090) (b)(A)           | 750 U                         | A                     |
| 8-16+mm Consolidated Armor Products, LLC             | Addison, TX                        | 5419          | COMP+CAN        | (.030) (b)(A)           | 175 U                         | A                     |
| 8-12mm Dongguan CSG Architectural Glass Co., Ltd.    | Dongguan, Guangdong, China         | 4167          | COMP+CAN        | (.030) (b)(A)           | 125 U                         | A                     |
| 8-12mm Dongguan Dongfa Glass Product Co., Ltd        | Dongguan, Guangdong, China         | 4123          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 10-16+mm Flat Glass Group Co., Ltd.                  | Jiaxing, Zhejiang                  | 5526          | COMPOSITE       | (.030) (b)(A)           | 125 U                         | A                     |
| 8-16+mm Glass Dynamics, Inc.                         | Stoneville, NC                     | 4376          | COMPOSITE       | (.030) (b)(A)           | 285 U                         | A                     |
| 8-16+mm Glass Dynamics, Inc.                         | Stoneville, NC                     | 4414          | COMPOSITE       | (.035) (ip)(A)          | 285 U                         | A                     |
| 8-12mm GlassFab Tempering Services, Inc. Mariani Ct. | Tracy, CA                          | 4899          | COMPOSITE       | (.030) (b)(A)           | 125 U                         | A                     |
| 8-10mm Guardian Industries Corp.                     | Galax, VA                          | 4829          | COMP+CAN        | (.075) (b)(p)(el)(6)(A) | 285 U                         | A                     |
| 8mm Guardian Industries Corp.                        | Galax, VA                          | 4658          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 8mm Gulf Glass Industries, LLC                       | Sharjah, United Arab Emirates      | 4799          | COMPOSITE       | (.030) (b)(A)           | 100 U                         | A                     |
| 8mm Hanwood Enterprises Limited                      | Wanchai, Hong Kong                 | 6003          | COMPOSITE       | (.090) (b)(A)           | 125 U                         | A                     |
| 8mm Insulite Glass Co., Inc.                         | Olathe, KS                         | 3720          | COMPOSITE       | (.060) (b)(A)           | 150 U                         | A                     |
| 8-16+mm Jiangmen SYP Engineering Glass               | Jiangmen, Guangdong, China         | 4312          | COMP+CAN        | (.030) (b)(A)           | 125 U                         | A                     |
| 8-12mm Kawneer - (Cranberry) a division of Alcoa     | Cranberry Township, PA             | 2748          | COMPOSITE       | (.090) (ip)(A)          | 100 U                         | A                     |
| 8, 12mm Kawneer - (Cranberry) a division of Alcoa    | Cranberry Township, PA             | 2715          | COMPOSITE       | (.060) (b)(A)           | 100 U                         | A                     |

**Certified Products-By Product Type**

|                                                 |                          |      |           |                | <u>Max Size</u>  | <u>ANSI</u>  |
|-------------------------------------------------|--------------------------|------|-----------|----------------|------------------|--------------|
|                                                 |                          |      |           |                | <u>Certified</u> | <u>CLASS</u> |
| <i>(H) Laminated Transparent Glass</i>          |                          |      |           |                |                  |              |
| 8mm McGrory Glass                               | Paulsboro, NJ            | 5262 | COMPOSITE | (.045) (b)(A)  | 100 U            | A            |
| 8-16+mm Multiver Inc.                           | Montreal, QC             | 5916 | COMP+CAN  | (.060) (ip)(A) | 400 U            | A            |
| 8mm Multiver Inc.                               | Montreal, QC             | 5914 | COMP+CAN  | (.015) (b)(A)  | 400 U            | B            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Langley, BC              | 4476 | COMP+CAN  | (.030) (b)(A)  | 750 U            | B            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Perrysburg, OH           | 4446 | COMP+CAN  | (.030) (b)(A)  | 100 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Miami, FL                | 4398 | COMP+CAN  | (.030) (b)(A)  | 285 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Miami, FL                | 4399 | COMP+CAN  | (.035) (ip)(A) | 285 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Fremont, CA              | 4460 | COMP+CAN  | (.030) (b)(A)  | 125 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Fremont, CA              | 4461 | COMP+CAN  | (.060) (ip)(A) | 125 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Los Angeles, CA          | 4563 | COMP+CAN  | (.030) (b)(A)  | 125 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Los Angeles, CA          | 4561 | COMP+CAN  | (.035) (ip)(A) | 125 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Denver, CO               | 4454 | COMP+CAN  | (.030) (b)(A)  | 125 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Wright City, MO          | 4529 | COMP+CAN  | (.035) (ip)(A) | 150 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Schofield, WI            | 4558 | COMP+CAN  | (.030) (b)(A)  | 600 U            | A            |
| 8, 12-16+mm Oldcastle BuildingEnvelope®         | Hauppauge, NY            | 5355 | COMP+CAN  | (.060) (ip)(A) | 400 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Hauppauge, NY            | 4618 | COMP+CAN  | (.030) (b)(A)  | 400 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Perrysburg, OH           | 4444 | COMP+CAN  | (.060) (ip)(A) | 100 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Tampa, FL                | 4449 | COMP+CAN  | (.030) (b)(A)  | 285 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Wright City, MO          | 4527 | COMP+CAN  | (.030) (b)(A)  | 150 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope®             | Houston, TX              | 4402 | COMP+CAN  | (.030) (b)(A)  | 175 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope® Canada Inc. | Pointe-aux-Trembles, QC  | 4433 | COMP+CAN  | (.035) (ip)(A) | 100 U            | A            |
| 8-16+mm Oldcastle BuildingEnvelope® Canada Inc. | Pointe-aux-Trembles, QC  | 4435 | COMP+CAN  | (.030) (b)(A)  | 100 U            | A            |
| 8-12mm Pennsylvania Insulating Glass            | Lewistown, PA            | 3919 | COMPOSITE | (.030) (b)(A)  | 100 U            | A            |
| 8-12mm PGT Industries                           | Nokomis, FL              | 3482 | COMPOSITE | (.090) (ip)(A) | 285 U            | A            |
| 8-12mm PGT Industries                           | Nokomis, FL              | 2426 | COMPOSITE | (.060) (b)(A)  | 285 U            | A            |
| 8mm Phoenicia Flat Glass Industries             | Nazaret, Ilit Israel     | 5629 | COMPOSITE | (.030) (b)(A)  | 100 U            | A            |
| 8-16+mm Prelco Inc.                             | Riviere-du-loup, QC      | 4906 | COMP+CAN  | (.030) (b)(A)  | 800 U            | A            |
| 8-16+mm Pulp Studio Inc.                        | Gardena, CA              | 4711 | COMPOSITE | (.030) (b)(A)  | 250 U            | A            |
| 8-16+mm Ready Glass & Mirror, Inc.              | Hialeah, FL              | 5634 | COMPOSITE | (.035) (ip)(A) | 285 U            | A            |
| 8-16mm Rizhao Huaye Glass Co., Ltd.             | Rizhao, Shandong         | 5581 | COMP+CAN  | (.015) (b)(A)  | 285 U            | B            |
| 8-16+mm SAAND Rexdale                           | Rexdale, ON              | 5002 | COMP+CAN  | (.030) (b)(A)  | 400 U            | A            |
| 8-10mm SAGE Electrochromics Inc.                | Faribault, MN            | 5655 | COMP+CAN  | (.060) (b)(A)  | 150 U            | A            |
| 8mm Saint Gobain Mexico, S.A. de C.V.           | Cuautla, Morelos, Mexico | 5906 | COMPOSITE | (.015) (b)(A)  | 400 U            | B            |
| 8mm Saint Gobain Mexico, S.A. de C.V.           | Cuautla, Morelos, Mexico | 5908 | COMPOSITE | (.030) (b)(A)  | 400 U            | A            |
| 8mm Shanghai SYP Building Glass                 | Shanghai, China          | 4353 | COMPOSITE | (.030) (b)(A)  | 125 U            | A            |
| 8-16+mm Shanghai SYP Building Glass             | Shanghai, China          | 4807 | COMPOSITE | (.035) (ip)(A) | 125 U            | A            |

**Certified Products-By Product Type**

|                                                         |                             |               |                 |                   | <u>Max Size</u>  | <u>ANSI</u>  |
|---------------------------------------------------------|-----------------------------|---------------|-----------------|-------------------|------------------|--------------|
|                                                         |                             |               |                 |                   | <u>Certified</u> | <u>CLASS</u> |
|                                                         |                             | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u>     |                  |              |
| (H) Laminated Transparent Glass                         |                             |               |                 |                   |                  |              |
| 8-12mm Tacoma Glass Mfg. Inc.                           | Lakewood, WA                | 4735          | COMPOSITE       | (.030) (b)(A)     | 195 U            | A            |
| 8-16+mm Tecnoglass S.A.                                 | Barranquilla, Columbia      | 4003          | COMP+CAN        | (.030) (b)(A)     | 285 U            | A            |
| 8mm Thermo BSL                                          | Riviere-du-loup, QC         | 5673          | COMP+CAN        | (.030) (b)(A)     | 800 U            | A            |
| 8mm Thompson I.G. LLC.                                  | Fenton, MI                  | 5302          | COMP+CAN        | (.060) (b)(A)     | 100 U            | A            |
| 8mm Tianjin CSG Energy Conservation Glass Co., Ltd      | Tianjin, China              | 4030          | COMPOSITE       | (.030) (b)(A)     | 100 U            | A            |
| 8-16+mm Tianjin SYP Engineering Glass Co., Ltd.         | Tianjin, China              | 4084          | COMP+CAN        | (.030) (b)(A)     | 125 U            | A            |
| 8mm Triview Glass Industries                            | City of Industry, CA        | 5048          | COMP+CAN        | (.030) (b)(A)     | 250 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | Fort Worth, TX              | 5783          | COMPOSITE       | (.030) (b)(A)     | 175 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | Youngsville, NC             | 5516          | COMPOSITE       | (.030) (b)(A)     | 165 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | Fort Worth, TX              | 5728          | COMPOSITE       | (.035) (ip)(A)    | 175 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | City of Industry, CA        | 6010          | COMPOSITE       | (.030) (b)(A)     | 250 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | New Berlin, WI              | 5937          | COMPOSITE       | (.060) (ip)(A)    | 150 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | Orlando, FL                 | 5484          | COMPOSITE       | (.030) (b)(A)     | 285 U            | A            |
| 8-12mm Trulite Glass and Aluminum Solutions             | New Berlin, WI              | 5936          | COMPOSITE       | (.030) (b)(A)     | 150 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | Grenada, MS                 | 4744          | COMPOSITE       | (.030) (b)(A)     | 500 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | Houston, TX                 | 4667          | COMP+CAN        | (.030) (b)(A)     | 175 U            | A            |
| 8-16+mm Trulite Glass and Aluminum Solutions            | Vaughan, ON                 | 5632          | COMP+CAN        | (.030) (b)(A)     | 450 U            | A            |
| 8-10mm Vidrios Dellorto S.A.                            | Santiago, Chile             | 5970          | COMPOSITE       | (.015) (b)(A)     | 285 U            | A            |
| 8-10mm View Inc.                                        | Olive Branch, MS            | 5841          | COMPOSITE       | (.035) (ip)(A)    | 175 U            | A            |
| 8-10mm View Inc.                                        | Olive Branch, MS            | 5834          | COMPOSITE       | (.015) (b)(A)     | 175 U            | A            |
| 8-16+mm Viracon Inc.                                    | Statesboro, GA              | 4779          | COMP+CAN        | (.030) (b)(A)     | 165 U            | A            |
| 8-16+mm Viracon Inc.                                    | Owatonna, MN                | 4249          | COMP+CAN        | (.030) (b)(A)     | 150 U            | A            |
| 8mm Viwinco, Inc.                                       | Morgantown, PA              | 3408          | COMPOSITE       | (.090) (b)(A)     | 100 U            | A            |
| 8mm Wujiang Golden Glass Technologies, Ltd.             | Wujiang City,               | 5257          | COMPOSITE       | (.030) (b)(A)     | 125 U            | A            |
| 8,12mm Xianning CSG Energy Conservation Glass Co., LTD. | Xianning, Hebei             | 5984          | COMPOSITE       | (.030) (b)(A)     | 125 U            | A            |
| 8-16+mm Xinyi Glass (Tianjin) Co. Ltd.                  | Tianjin, China              | 5539          | COMP+CAN        | (.030) (b)(A)     | 195 U            | A            |
| 8-16+mm Xinyi Group (Glass) Co., Ltd.                   | Dongguan, Guangdong, China  | 3489          | COMP+CAN        | (.030) (b)(A)     | 125 U            | A            |
| (H) Laminated Transparent Glass                         |                             |               |                 |                   |                  |              |
| 10-16+mm Downey Glass Industries, LLC                   | Pompano Beach, FL           | 5122          | COMPOSITE       | (.035) (ip)(A)    | 285 U            | A            |
| 10-12mm Fairis C.A.                                     | Ambato, Tungurahua, Ecuador | 4430          | COMPOSITE       | (.030) (b)(A)     | 285 U            | A            |
| 10mm Glenly Glass Co.                                   | Milford, OH                 | 6017          | COMPOSITE       | (.015) (ev)(A)    | 200 U            | A            |
| 10mm Global Security Glazing                            | Selma, AL                   | 6040          | COMP+CAN        | (.150) (b)(A)     | 285 U            | A            |
| 10-16+mm Guangdong Golden Glass Technologies            | Shantou, Guangdong, China   | 3947          | COMP+CAN        | (.030) (b)(A)     | 125 U            | A            |
| 10-12mm Insulite Glass Co., Inc.                        | Olathe, KS                  | 5513          | COMPOSITE       | (.030) (b)(A)     | 150 U            | A            |
| 10-16+mm Jiangmen SYP Engineering Glass                 | Jiangmen, Guangdong, China  | 4575          | COMP+CAN        | (.060) (ip)(A)    | 125 U            | A            |
| 10mm Kawneer - (Cranberry) a division of Alcoa          | Cranberry Township, PA      | 2716          | COMPOSITE       | (.030) (b)(A)     | 100 U            | A            |
| 10mm Louisville Plate Glass Company                     | Louisville, KY              | 5093          | COMPOSITE       | (.060) (lu)(A)(6) | 165 U            | A            |
| 10-12mm McGrory Glass                                   | Paulsboro, NJ               | 5263          | COMPOSITE       | (.030) (b)(A)     | 100 U            | A            |



**Certified Products-By Product Type**

|                                                     |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u>     | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------------|----------------------------|---------------|-----------------|-------------------|-------------------------------|-----------------------|
| <i>(H) Laminated Transparent Glass</i>              |                            |               |                 |                   |                               |                       |
| 10-12mm Nashville Tempered Glass LLC                | Hendersonville, TN         | 5230          | COMP+CAN        | (.030) (b)(A)     | 285 U                         | A                     |
| 10-16+mm Oldcastle BuildingEnvelope®                | Covington, GA              | 4392          | COMP+CAN        | (.030) (b)(A)     | 165 U                         | A                     |
| 10-12mm Oldcastle BuildingEnvelope®                 | Covington, GA              | 4393          | COMP+CAN        | (.035) (ip)(A)    | 165 U                         | A                     |
| 10-12mm Saint Gobain Mexico, S.A. de C.V.           | Cuautla, Morelos, Mexico   | 5909          | COMPOSITE       | (.090) (b)(A)     | 400 U                         | A                     |
| 10-16+mm Shanghai SYP Building Glass                | Shanghai, China            | 2780          | COMPOSITE       | (.015) (b)(A)     | 125 U                         | B                     |
| 10-16+mm Shenzhen Kai Tai Glass Co., LTD            | Shenzhen City, GuangDong   | 5440          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 10mm Thermo BSL                                     | Riviere-du-loup, QC        | 5674          | COMP+CAN        | (.090) (ip)(A)    | 800 U                         | A                     |
| 10-12mm Thompson I.G. LLC.                          | Fenton, MI                 | 5301          | COMP+CAN        | (.030) (b)(A)     | 100 U                         | A                     |
| 10mm Tianjin CSG Energy Conservation Glass Co., Ltd | Tianjin, China             | 4106          | COMPOSITE       | (.045) (b)(A)     | 100 U                         | A                     |
| 10-12mm Tri-Star Glass, Inc.                        | Tulsa, OK                  | 4411          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 10-16+ mm Trulite Glass and Aluminum Solutions      | City of Industry, CA       | 6011          | COMPOSITE       | (.060) (ip)(A)    | 250 U                         | A                     |
| 10-12mm Trulite Glass and Aluminum Solutions        | Orlando, FL                | 5485          | COMPOSITE       | (.035) (ip)(A)    | 285 U                         | A                     |
| 10-12mm Trulite Glass and Aluminum Solutions        | Grenada, MS                | 5898          | COMPOSITE       | (.035) (ip)(A)    | 500 U                         | A                     |
| 10mm Vetzeria F. Illi Paci                          | Seregno MB Italy           | 5520          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 10mm Wujiang Golden Glass Technologies, Ltd.        | Wujiang City,              | 5258          | COMPOSITE       | (.035) (ip)(A)    | 125 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>              |                            |               |                 |                   |                               |                       |
| 12+mm AGNORA (Architectural Glass North America)    | Collingwood, ON Canada     | 4886          | COMP+CAN        | (.030) (b)(A)     | 450 U                         | A                     |
| 12mm Aldora Aluminum and Glass Products, Inc.       | Miramar, FL                | 4789          | COMPOSITE       | (.090) (lu)(A)(6) | 285 U                         | A                     |
| 12-16+mm Alumana Industries                         | Doha, Qatar                | 5424          | COMPOSITE       | (.060) (b)(A)     | 285 U                         | A                     |
| 12mm AVIC Sanxin Co. Ltd.                           | Shenzhen, Guangdong, China | 5765          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 12-16+mm Beijing Wuhua Tianbao Glass Co.            | Beijing, China             | 5664          | COMPOSITE       | (.045) (b)(A)     | 125 U                         | A                     |
| 12-16+mm Carey Glass International                  | Nenagh, Co. Tipperary      | 6001          | COMP+CAN        | (.060) (b)(A)     | 100 U                         | A                     |
| 12mm Classy Glass Specialties Co., Ltd              | Dongguan, Guangdong        | 5169          | COMPOSITE       | (.030) (b)(A)     | 200 U                         | A                     |
| 12mm Comercial Dialum S.A.                          | Santiago, Chile            | 5938          | ANSI ONLY       | (.035) (ip)(A)    | 285 U                         | A                     |
| 12mm Cristec Vipla SL                               | Balaguer, Lleida           | 5878          | COMPOSITE       | (.035) (ip)(A)    | 100 U                         | A                     |
| 12mm Cristec Vipla SL                               | Balaguer, Lleida           | 5699          | COMPOSITE       | (.015) (b)(A)     | 100 U                         | A                     |
| 12mm Dolphin Glass Specialists, LLC                 | Hialeah, FL                | 4729          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 12,16mm Galaxy Glass & Stone                        | Fairfield, NJ              | 5752          | COMP+CAN        | (.030) (ev)(A)    | 100 U                         | A                     |
| 10-16+mm Galaxy Glass & Stone                       | Fairfield, NJ              | 3661          | COMP+CAN        | (.060) (lu)(A)(6) | 100 U                         | A                     |
| 12-16+mm Glass and Mirror Craft                     | Wixom, MI                  | 4924          | COMP+CAN        | (.035) (ip)(A)    | 150 U                         | A                     |
| 12mm Glasswerks LA, Inc. East                       | South Gate, CA             | 5886          | COMPOSITE       | (.060) (b)(A)     | 250 U                         | A                     |
| 12mm Global Security Glazing                        | Selma, AL                  | 4770          | COMP+CAN        | (.060) (b)(A)     | 285 U                         | A                     |
| 12mm Kawneer - (Cranberry) a division of Alcoa      | Cranberry Township, PA     | 2719          | COMPOSITE       | (.090) (b)(A)     | 100 U                         | A                     |
| 12, 20mm M Industria S.A. DE C.V.                   | Merida, Yucatan Mexico     | 5412          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 12, 20mm M Industria S.A. DE C.V.                   | Merida, Yucatan Mexico     | 5413          | COMPOSITE       | (.035) (ip)(A)    | 285 U                         | A                     |
| 12mm Multiver Inc.                                  | Montreal, QC               | 5915          | COMP+CAN        | (.030) (b)(A)     | 400 U                         | B                     |
| 12mm Nashville Tempered Glass LLC                   | Hendersonville, TN         | 5231          | COMP+CAN        | (.035) (ip)(A)    | 285 U                         | A                     |
| 12mm Oldcastle BuildingEnvelope®                    | Houston, TX                | 4401          | COMP+CAN        | (.090) (ip)(A)    | 175 U                         | A                     |
| 12mm Oldcastle BuildingEnvelope®                    | Tampa, FL                  | 5051          | COMP+CAN        | (.035) (ip)(A)    | 285 U                         | A                     |
| 12mm PRL Glass Systems                              | City of Industry, CA       | 5605          | COMPOSITE       | (.030) (b)(A)     | 125 U                         | A                     |

**Certified Products-By Product Type**

|                                                        |                              | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u>     | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------------|------------------------------|---------------|-----------------|-------------------|-------------------------------|-----------------------|
| (H) Laminated Transparent Glass                        |                              |               |                 |                   |                               |                       |
| 12mm SAGE Electrochromics Inc.                         | Faribault, MN                | 5660          | COMP+CAN        | (.030) (b)(A)     | 150 U                         | A                     |
| 12mm Taiwan Glass Industry Corp.                       | Taipei, Taiwan, China        | 3893          | COMP+CAN        | (.030) (b)(A)     | 750 U                         | A                     |
| 12mm Templados Del Centro SA DE C.V.                   | Irapuato, Guanajuato         | 6019          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 12-16+mm TG Changjiang Glass Co., Ltd                  | Kunshan City, Jiangsu, China | 5176          | COMP+CAN        | (.015) (b)(A)     | 750 U                         | B                     |
| 12mm Tianjin CSG Energy Conservation Glass Co., Ltd    | Tianjin, China               | 4107          | COMPOSITE       | (.060) (b)(A)     | 100 U                         | A                     |
| 12mm TVITEC                                            | Cubillo del Sil, Spain       | 5519          | COMPOSITE       | (.070) (ip)(A)    | 285 U                         | A                     |
| 12,16mm Vidrios Dellorto S.A.                          | Santiago, Chile              | 5971          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 12mm Viracon Inc.                                      | Statesboro, GA               | 4784          | COMP+CAN        | (.090) (ip)(A)    | 165 U                         | A                     |
| 12-16+mm Viracon Inc.                                  | Owatonna, MN                 | 4250          | COMP+CAN        | (.060) (ip)(A)    | 150 U                         | A                     |
| 12mm Virginia Glass Products Corp.                     | Martinsville, VA             | 5194          | COMPOSITE       | (.035) (ip)(A)    | 100 U                         | A                     |
| 12mm Virginia Glass Products Corp.                     | Martinsville, VA             | 5383          | COMPOSITE       | (.030) (ev)(6)(A) | 100 U                         | A                     |
| 12mm Vistamatic                                        | Coral Springs, FL            | 6015          | COMP+CAN        | (.030) (ev)(A)    | 285 U                         | A                     |
| (H) Laminated Transparent Glass                        |                              |               |                 |                   |                               |                       |
| 16+mm Carey Glass International                        | Nenagh, Co. Tipperary        | 6002          | COMP+CAN        | (.060) (ip)(A)    | 100 U                         | A                     |
| 16+mm Dongguan Dongfa Glass Product Co., Ltd           | Dongguan, Guangdong, China   | 4124          | COMP+CAN        | (.030) (b)(A)     | 285 U                         | A                     |
| 16+mm Guangdong Golden Glass Technologies              | Shantou, Guangdong, China    | 4723          | COMPOSITE       | (.060) (ip)(A)    | 125 U                         | B                     |
| 16+mm Hartung Glass Industries Lami                    | Langley, BC Canada           | 4431          | COMPOSITE       | (.070) (ip)(A)    | 750 U                         | A                     |
| 16+mm Jiangmen Ligo Glass Manufacture Co., Ltd.        | Guangdong, China             | 5874          | COMPOSITE       | (.060) (b)(A)     | 750 U                         | A                     |
| 16+mm Tianjin CSG Energy Conservation Glass Co., Ltd   | Tianjin, China               | 4108          | COMPOSITE       | (.090) (b)(A)     | 100 U                         | A                     |
| (H) Laminated Transparent Glass                        |                              |               |                 |                   |                               |                       |
| 18+mm Tianjin Northglass Industrial Technical Co., Ltd | Tianjin, China               | 5223          | COMPOSITE       | (.060) (ip)(A)    | 175 U                         | A                     |
| (H) Laminated Transparent Glass                        |                              |               |                 |                   |                               |                       |
| 20+mm Beijing Wuhua Tianbao Glass Co.                  | Beijing, China               | 5663          | COMPOSITE       | (.030) (b)(A)     | 125 U                         | A                     |
| (H) Laminated Transparent Glass                        |                              |               |                 |                   |                               |                       |
| 21mm GnT Glass Co., Ltd.                               | Dongguan, Guangdong, China   | 5791          | COMP+CAN        | (.060) (b)(A)     | 400 U                         | A                     |
| (H) Laminated Transparent Glass                        |                              |               |                 |                   |                               |                       |
| 23+mm Sanshiba                                         | Takaoka, Toyama              | 5512          | ANSI ONLY       | (.060)x2 (ip)(A)  | 250 U                         | A                     |
| (H) Laminated Transparent Glass                        |                              |               |                 |                   |                               |                       |
| 25+mm Classy Glass Specialties Co., Ltd                | Dongguan, Guangdong          | 5170          | COMPOSITE       | (.060) (b)(A)     | 200 U                         | A                     |
| <b><u>Laminated Specialty Product</u></b>              |                              |               |                 |                   |                               |                       |
| (H) Laminated Specialty Product                        |                              |               |                 |                   |                               |                       |
| 8-12mm SAGE Electrochromics Inc.                       | Faribault, MN                | 5016          | COMP+CAN        | (.035) (ip)(A)    | 150 U                         | A                     |
| <b><u>Laminated Patterned Glass</u></b>                |                              |               |                 |                   |                               |                       |
| (H) Laminated Patterned Glass                          |                              |               |                 |                   |                               |                       |
| 8-10mm PGT Industries                                  | Nokomis, FL                  | 4812          | COMPOSITE       | (.090) (s)(ip)(A) | 285 U                         | A                     |
| 8-10mm PGT Industries                                  | Nokomis, FL                  | 4801          | COMPOSITE       | (.060) (s)(b)(A)  | 285 U                         | A                     |

**SGCC® APPROVED TESTING LABORATORIES APPROVED FOR TESTING IN  
THE ANSI AND CAN/CSB CERTIFICATION PROGRAMS (SD-101)**

|                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                          |                                                                                                                                                                                                                                                            |
|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>100 – Intertek/ATI</b><br>130 Derry Court<br>York, PA 17406<br>Attn: Todd Wilt or Julie Shilke<br>Phone: (717) 764-7700<br>Fax: (717) 764-4129<br>Email(s): twilt@archtest.com or<br>jshilke@archtest.com                            | <b>125 – Intertek/ATI</b><br>2524 East Jensen Ave.<br>Fresno, CA 93706<br>Attn: Kenny White<br>Phone: (559) 233-8705<br>Fax: (559) 233-8360<br>Email: kwhite@archtest.com                                                                                | <b>150 – Intertek/ATI</b><br>849 Western Ave. North<br>St. Paul, MN 55117-5345<br>Attn: Dan Johnson or Zane Wybest<br>Phone: (651) 636-3835<br>Fax: (651) 636-3843<br>Email(s): djohnson@archtest.com,<br>zwybest@archtest.com                             |
| <b>165 – Intertek/ATI</b><br>1701 Westfork Dr. Suite 106<br>Lithia Springs, GA 30122<br>Attn: Ian McKenzie, Julie Beamish<br>Phone: (770) 941-6916<br>Fax: (770) 941-2930<br>Email(s): imckenzie@archtest.com,<br>jbeamish@archtest.com | <b>175 – Intertek/ATI</b><br>1909 10 <sup>th</sup> St, Suite 100<br>Plano, TX 75074<br>Attn: Al Kipp or Cassandra Matthews<br>Phone: (469) 814-0687<br>Fax: (717) 764-4129<br>Email(s): akipp@archtest.com,<br>cassandra.matthews@archtest.com           | <b>195 – Intertek/ATI</b><br>22155 68th Ave. South<br>Kent, WA 98032-1937<br>Attn: Jeff Dideon or Patricia Cain<br>Phone: (253) 395-5656<br>Fax: (717) 764-4129<br>Email(s): jdideon@archtest.com,<br>pcain@archtest.com                                   |
| <b>200 - Bowser-Morner Inc.</b><br>4518 Taylorsville Road<br>Dayton, OH 45424<br>Attn: Vicki Appora<br>Phone: (937) 236-8805<br>Fax: (937) 237-9947<br>Email: vappora@bowser-morner.com                                                 | <b>250 - Construction Consulting</b><br>Laboratory West<br>4751 W. State St. Suite B<br>Ontario, CA 91762<br>Attn: Jack Jackson or Scott Shepard<br>Phone: (909) 591-1789<br>Fax: (909) 627-9020<br>Email(s): Jack@ccl-west.com or<br>scott@ccl-west.com | <b>285- Fenestration Testing Laboratory</b><br>8148 N.W. 74th Ave.<br>Medley, FL 33166<br>Attn: Manny Sanchez<br>Phone: (305) 885-3328<br>Fax: (305) 885-3329<br>Email: manny@ftl-inc.com                                                                  |
| <b>400 - Intertek</b><br>75 Clinton Avenue<br>Cortland, NY 13045-0950<br>Attn: Justin Morgan or James Diescher<br>Phone: (607) 753-6711<br>Fax: (607) 758-6503<br>Email(s): justin.morgan@intertek.com,<br>james.diescher@intertek.com  | <b>450 - Intertek</b><br>1829 32nd Avenue<br>Lachine, QC<br>Canada HBT 3J1<br>Attn: Claude Pelland<br>Phone: (514) 631-3100 x 277<br>Fax: (514) 631-1133<br>Email: claud.pelland@intertek.com                                                            | <b>500 - Element Materials Technology</b><br>3922 Delaware Avenue<br>Des Moines, IA 50313<br>Attn: Adam Scarlett or Brian Escherich<br>Phone: (515) 266-5101<br>Fax: (515) 262-1910<br>Email(s): adam.scarlett@element.com,<br>brian.escherich@element.com |
| <b>600 - Element Materials Technology</b><br>115 S. 84th Ave.<br>Wausau, WI 54401-8434<br>Attn: Gary Norenberg<br>Phone: (715) 848-3935<br>Fax: (715) 848-0837<br>Email: Gary.norenberg@element.com                                     | <b>750 - NCTL Northwest</b><br>3310 Hill Avenue<br>Everett, WA 98201<br>Attn: Chris Shafer or Tasha Fisher<br>Phone: (425) 259-6799<br>Fax: (425) 259-4936<br>Email(s): cshafer@nctlinc.com,<br>tfisher@nctlinc.com                                      | <b>800 - NCTL</b><br>5 Leigh Dr.<br>York, PA 17406<br>Attn: Amy Becker<br>Phone: (717) 846-1200<br>Fax: (717) 767-4100<br>Email: abecker@nctlinc.com                                                                                                       |

The ID of the Laboratory used for testing of each product is provided in the Certified Products "By Product Type" of this Certified Products Directory. **Please note:** For initial certification of prototype samples, the manufacturer pays the laboratory directly for testing and must contact the laboratory for prototype testing fees.

*Revised 6/6/2016*