



safety glazing certification council

July 1, 2013

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

July 1, 2013

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 Z97.1-2009"

Copies of ANSI Z97.1-2009 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://www.ansiz97.com/purchase/>

~ ~ ~

"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 www.sgcc.org/compliance

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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  
100 W. Main St.  
Sackets Harbor, NY 13685  
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[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:

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

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**SGCC Certification Committee**

| <b>Licensee</b>                                    | <b>Primary Member</b> | <b>First Alternate</b> | <b>Second Alternate</b> |
|----------------------------------------------------|-----------------------|------------------------|-------------------------|
| A Plus Glass Services                              | Yanill Lopez          |                        |                         |
| AAG-AI Abbar Architectural Glass                   | Jean Lelievre         | Ezhilenth Narayanan    |                         |
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| AGP, LLC                                           | Manny Valladares      |                        |                         |
| All Team Glass & Mirror, Ltd.                      | Lee Timoll            | Joseph Montiano        |                         |
| Alyusuf Thermo Glass W.L.L.                        | Santhosh Anand        |                        |                         |
| American Shower Door                               | Tom Hori              |                        |                         |
| Amsco Windows                                      | Joe Jonely            |                        |                         |
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| Anthony International                              | Matt Rolek            | Don Sokol              |                         |
| Architectural Glass Products, LLC.                 | Sharon Gambill        |                        |                         |
| Arlene Stained Glass & Door                        | Son Nguyen            |                        |                         |
| AVIC Sanxin Co. Ltd.                               | Wang Jinlin           |                        |                         |
| Basco Engineered Products                          | Dale Schmidt          | Gary Brown             |                         |
| Beijing Northglass Safety Glass Co., Ltd           | XueMing Gao           |                        |                         |
| Bendheim Wall Systems                              | Robert Jayson         |                        |                         |
| Berkowitz J. E., LP                                | Jim Stinsman          |                        |                         |
| Blue Star Glass Inc.                               | Maureen Poole         |                        |                         |
| Cameron Glass, Inc.                                | John Alajaji          | Troy Gillion           |                         |
| Cardinal IG                                        | Bernie Herron         | Bob Spindler           | Oak Moser               |
| Cardinal Solar Technologies                        | Kirk Jewell           |                        |                         |
| Cardinal Tempering                                 | Greg Abrams           |                        |                         |
| Catalina Tempering Ohio                            | Todd French           |                        |                         |
| Changshu Hard Glass Co., Ltd.                      | Zinger Yu             |                        |                         |
| Changshu Lier Building Materials Co. Ltd.          | Wang Xuefeng          |                        |                         |
| Changshu Mingyang Glass Products Co., Ltd.         | Steven Shung          |                        |                         |
| Changshu Xingfu Glass Building Material Co., LTD   | Zhong Chun            |                        |                         |
| Changshu Zhongxin Bldg. Mat. Co.                   | Denise Lu             |                        |                         |
| Changshu Zhouxing Glass Co. Ltd.                   | Xiaodong Qian         |                        |                         |
| Chicago Tempered Glass, Inc.                       | Adam Kaczynski        |                        |                         |
| Cleer Vision Tempered Glass                        | Joseph Santelli       |                        |                         |
| Coastal Glass Distributors, Inc.                   | Jeromy Richey         |                        |                         |
| Columbia Commercial Building Products, Acquisition | Brian Baldridge       | Steve Burns            |                         |
| Commercial Insulating Glass Co.                    | Jeff Winsler          |                        |                         |
| Consolidated Glass Corp.                           | Carl Carmen           | Shane Merryman         | Louis Merryman          |
| Consolidated Glass Holdings, Inc.                  | Frederic P. Shaw      | Eric Shaw              | Brian Shaw              |
| Contour Industries, Inc.                           | Lee Mulkey            | David Tomlinson        |                         |
| Contractors Wardrobe                               | Jack Violante         |                        |                         |
| Coral Industries Glass Division                    | Patrick Conner        |                        |                         |
| Cuda Glass & Metals                                | Larry Abramowski      |                        |                         |
| Custom Glass Products Inc.                         | Eric Reeder           |                        |                         |
| D3 Glass, LLC                                      | Doug Daubmann         |                        |                         |
| Dallas Flat Glass Distributors, Inc.               | Linda Jo Holman       |                        |                         |
| Denver Glass Interiors, Inc.                       | David Uhey            |                        |                         |
| Deqing Sanxing Plastic Chemical Co. Ltd.           | Yang Min              |                        |                         |
| Diamond Sea Glaze                                  | Mark Chesley          |                        |                         |
| Dillmeier Enterprise, Inc.                         | Cody Tran             |                        |                         |
| Dlubak Corporation                                 | David Bazzano         |                        |                         |
| Dolphin Glass Specialists, LLC                     | Jose Prieto           |                        |                         |
| Dong Sung Glass Korea, Co., Ltd.                   | Mike Cho              |                        |                         |
| DongGuan CSG Architectural Glass Co., Ltd.         | Yu GuangHui           |                        |                         |



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| Dongguan Taisheng Glass Co., Ltd.              | Zhibing Liu           |                        |                         |
| 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.              | Goran Radojevich      | Isabel Quintero        |                         |
| Fairis C.A.                                    | Jorge Jaramillo       |                        |                         |
| Flat Glass Distributors, Inc.                  | Thomas Cruz           |                        |                         |
| Foshan Nanhai Gangsheng Tempered Glass Factory | Grace Chow            |                        |                         |
| 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         |                         |
| Glass Design of Miami, Inc.                    | Ernesto Garcia        |                        |                         |
| Glass Dynamics, Inc.                           | Conrad Lankford       |                        |                         |
| Glass Enterprises Inc.                         | Joshua Burg           |                        |                         |
| Glasser SA de CV                               | Elliot Luna           |                        |                         |
| 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            |                         |
| Grand Glass Windows and Doors Inc.             | Tim Beasley           |                        |                         |
| Guangdong Golden Glass Technologies Limited    | Wu Congzhen           |                        |                         |
| Guardian Fabrication, Inc.                     | Kevin B. Olah         | Melissa Matyniak       | Carrie Karasiewicz      |
| Guardian Industries Corp.                      | Kevin B. Olah         | Melissa Matyniak       | Carrie Karasiewicz      |
| Gulf Glass Industries, Co. LTD                 | Samih Fatayerji       |                        |                         |
| Hartung Glass Industries                       | Bruce Butler          |                        |                         |
| Industrial Tempering Glass                     | Alexander Weinberger  |                        |                         |
| Insulated Glass of America, Inc.               | Derek Spears          |                        |                         |
| Insulite Glass Co., Inc.                       | Larry Vasholz         |                        |                         |
| Insulpane Inc.                                 | Bill Seamon           |                        |                         |
| Integral Seal Mfg. Inc.                        | Ben Nayot             |                        |                         |
| Intex Glass (Xiamen) Co., Ltd.                 | Chris Snyder          |                        |                         |
| Intigral                                       | Mark Hutchinson       |                        |                         |
| Jiaxing Joinbath Corporation                   | Mr. Chuanping Zhang   |                        |                         |
| JYC Glass Co. Ltd.                             | Li Xiang Sheng        |                        |                         |
| Kohler Company                                 | Matt Wright           | Doug Glisson           | Buddy Thompson          |
| 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         |                         |
| Multiver                                       | Edgar Cormier         | Chantel Theriault      |                         |
| Nashville Tempered Glass Corp.                 | Dan Haney             | Richard Paschel        |                         |
| New Angle Beveling                             | Marc Martell          |                        |                         |
| Northwest Glass, Inc.                          | Bill Pollack          |                        |                         |
| NY Tempering LLC                               | Haidong Weng          |                        |                         |

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| Oldcastle BuildingEnvelope™                         | Rick Wright           | Robert Williams        |                         |
| Patio Enclosures                                    | Jack Garforth         | Craig Cox              |                         |
| Pennsylvania Insulating Glass                       | Tim Wilkins           |                        |                         |
| Perficom S.A. DE C.V.                               | Enrique Presa         |                        |                         |
| PFG Glass Industries                                | Steve Nielsen         |                        |                         |
| PGT Industries                                      | Rod Hershberger       |                        |                         |
| PPG Inds. Inc.                                      | Paul W. Bush          | Wayne Boor             | Kevin Ramus             |
| Prelco Inc.                                         | Stephane Mercier      |                        |                         |
| Productos De Valor Agregado en Cristal S.A. de C.V. | Jaime Guzman Salazar  |                        |                         |
| PT Abebersa Pratama                                 | Mahud Malim           |                        |                         |
| Pulp Studio Inc.                                    | Bernard Lax           |                        |                         |
| Qinhuangdao Detai Tempered Glass Co., Ltd.          | Yijing Wang           |                        |                         |
| Qinhuangdao High-Tech Energy-Saving Dorwin Co L     | Lang Xiao Yan         |                        |                         |
| Qinhuangdao Kunping Safety Glass Co. Ltd.           | Zhao Ping-Wang        |                        |                         |
| QinHuangDao Tianrui Tempered Technology Glass       | Zhu YanJun            | Cheng Yi Bin           |                         |
| Quaker Window Products, Inc.                        | Curtis Weavers        |                        |                         |
| Quality Glass & Mirror, Inc.                        | Tom Markowski         |                        |                         |
| Ready Glass & Mirror, Inc.                          | Silverio Perez        |                        |                         |
| Reem Emirates Aluminum & Glass                      | Hamed Hussein         |                        |                         |
| RF Supply, Inc.                                     | Mike Hoelle           |                        |                         |
| Sage Electrochromics Inc.                           | Helen Sanders         |                        |                         |
| Saint Gobain Mexico, S.A. de C.V.                   | Sandino Estrada       |                        |                         |
| Saint-Gobain SOVIS                                  | Jean-Francois Royan   |                        |                         |
| SCHOTT Gemtron - Sweetwater                         | Bill Long             | Jack Francis           |                         |
| SCHOTT Gemtron (Canada) Corporation                 | Bill Bartlett         |                        |                         |
| SF Tempering                                        | Salva Sorka           |                        |                         |
| Shanghai Mingte Glass Technology Co., Ltd.          | Caiying Xia           |                        |                         |
| Shanghai Yaohua Pilkington Glass Co. Shanghai SY    | Dr. Sun Dahai         |                        |                         |
| SIGCO, Inc.                                         | David A. McElhinny    |                        |                         |
| Simonton Windows                                    | Kevin Baker           | Chuck Andersen         |                         |
| Southwest Glass Products Inc.                       | Laverne Sinden        |                        |                         |
| Spec-Temp, Inc.                                     | T. Copsey             |                        |                         |
| 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            |                        |                         |
| Taiwan Glass Industry Corporation                   | Peter Chen            |                        |                         |
| Techni-Glass, Inc.                                  | Pat Murphy            | Jason Hooven           |                         |
| Tecnoglass S.A.                                     | Christian Daes        |                        |                         |
| Texas Tempered Glass Inc.                           | Bob Larson            |                        |                         |
| The Original Frameless Shower Door                  | John Serino           |                        |                         |
| Thermal Seal Insulating Glass                       | Ann Oliveira          |                        |                         |
| Thermo BSL                                          | Lucie Losier-Dube     |                        |                         |
| Thermoseal Industries, LLC                          | Richard Chubb         |                        |                         |
| Tianjin CSG Energy Conservation Glass Co., LTD      | Zaida Liu             |                        |                         |
| TianJin Dong Sung Home Building Materials Co. Ltd.  | Sang Kuy Lee          |                        |                         |
| TRACO (Three Rivers Alum)-PA                        | Dale Pittman          |                        |                         |
| Triple Seal Ltd.                                    | Steve Callahan        |                        |                         |
| Tri-Star Glass, Inc.                                | Tim Kelley            |                        |                         |
| Triview Glass Industries                            | Alex Kastaniuk        |                        |                         |
| Troy Systems LLC                                    | Ali Guney             |                        |                         |



**SGCC Certification Committee**

| <b>Licensee</b>                                  | <b>Primary Member</b> | <b>First Alternate</b> | <b>Second Alternate</b> |
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| Trulite Glass and Aluminum Solutions             | Phil Danielson        |                        |                         |
| Tweddell's Inc.                                  | Corey Myer            | Ed Blair               |                         |
| United Plate Glass Co., Inc.                     | Matt Anderson         |                        |                         |
| United Plate Glass Co., Inc.                     | Darin Vietmeier       |                        |                         |
| Upstate Glass Tempering Inc.                     | David Chavoly         |                        |                         |
| Vetzeria Valentini S.R.L.                        | Claudio Valentini     |                        |                         |
| Vidrio Bisel S.A. de C.V.                        | Ignacio Flores Suarez |                        |                         |
| Vidrios el Castillo SC del RL de CV              | Carlos Benet Trad     |                        |                         |
| Vidrios Marte SA de CV                           | Hugo Hernandez        |                        |                         |
| View Inc.                                        | Joe Crouson           |                        |                         |
| Viracon Inc.                                     | Brian Louks           | Don Boutelle           |                         |
| Virginia Glass Products Corp.                    | Benjamin Beeler       | W. Chris Beeler        |                         |
| Vitra Vidrios Transformados SA de CV             | Miguel Larach         |                        |                         |
| Vitraform, Inc.                                  | Jerry Fein            |                        |                         |
| Viwinco, Inc.                                    | Michael Duncan        |                        |                         |
| W. A. Wilson Inc.                                | Robert Hartong        |                        |                         |
| White Aluminium Enterprises L.L.C                | Jabr Doshan           |                        |                         |
| Wholesale Glass Distributors, Inc.               | Kevin Boudreaux       |                        |                         |
| WSD Glass, Inc.                                  | Gary Reece            |                        |                         |
| Wujiang CSG Huadong Architectural Glass Co., LTD | Yu Jinhui             |                        |                         |
| XYG Glass (Div. of Xinyi Grp (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 Weiyu Fabricated Glass Co. Ltd.     | Xuxiang Dong          |                        |                         |

**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 |

July 1, 2013

**~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 Z97.1-2009.

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 selects, at least twice in each year, samples during routine or unannounced 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~**

### **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:

- a) The applicant signs two copies of the SGCC® License Agreement (including notarization of the Affidavit, Appendix A) 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.
- 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/or 16 CFR 1201 and/or CAN/CGSB 12.1.
- c) The applicant sends to SGCC® the six-month certification fee for each item to be certified. This fee must be submitted within six months of completion of item (b). Failure to do so will result in the need to resubmit item (b). (Revised 10/22/93)
- 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 10/12/06)**

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, CPSC 16 CFR 1201)
    - 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 and/or CPSC 16CFR1201)
      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.

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. 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 unannounced visits to the manufacturing plant or from the market place.

## COMPLIANCE SAFEGUARDS

### HOW IS COMPLIANCE ASSURED

Any certified product determined, in the course of routine sampling and evaluation, not in compliance with the applicable specification(s), is subject to the removal of certification. The licensee is given 30 days in which to demonstrate to the satisfaction of the Administrator compliance, and if not certification is automatically withdrawn at the end of the 30-day period.

### CHALLENGING A CERTIFIED PRODUCT

Complaints of non-compliance, from any source, will be investigated promptly by SGCC® upon receipt of a written complaint and surety deposit. A minimum surety deposit of \$1,000 will be required for each complaint of non-compliance. The surety deposit will be assessed at the rate of \$350 per man-day plus the reasonable cost of travel and the maintenance entailed in resolving such incidents. Refunds of part or all of the surety deposit will be made when applicable. All costs involved will be paid from the complainant's surety deposit, unless the investigation proves non-compliance, in which case all costs will be borne by the licensee found to be in non-compliance.

### 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/CONTINGENCY 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            |

No testing is necessary during the initial six-month period if prototype testing took place within 30 days of initial certification. Normal inspection may take place during this initial period, however.

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:

- 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 and/or 16 CFR 1201 or both plus CAN/CGSB 12.1 will be accepted from any testing laboratory approved by the SGCC® Certification Committee. (Revised 4/19/04)

#### **G.3 (ANSI ONLY)**

Paragraph (1) Section 5.1.4 of ANSI Z97.1-2009 is intended to apply to laminated, wired, and organic coated glass only. Paragraph (2) is intended to apply to tempered glass only. Paragraph (3) is intended to apply to plastics only. Paragraph (4) is intended to apply to any safety glazing material. Paragraph (5) is intended to apply to plastics. Paragraph (6) is intended to apply to laminated and organic coated glass. (Revised 10/21/05)

#### **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 3/16/90)

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- b) The laboratory shall verify that the label complies with SGCC® labeling requirements. (revised 10/15/08)
- 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 first of 2011 (F11) certification period, the SGCC® permanent label must contain ANSI Z97.1-2009 in order to be considered a correct permanent label for purposes of Guideline G.6. (Revised 4/29/10)

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 (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 4/29/10)

G. 9 Effective with the last half of 2010 testing (L10) all test samples for "U" (Unlimited size certification) must be 34x76". This includes regular, twice annual testing. (Revised 4/29/10)

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

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) Within three months the Administrator shall obtain an additional random sample for evaluation (in addition to the routine evaluation sample obtained twice a year). The Administrator shall be certain that this additional sample is of recent production.
- c) At the option of the Administrator, specimens submitted under (a) above shall be either prototype size and pattern or identical to those previously sampled and of recent production.

- d) Certification shall be removed if the additional random sample obtained in (b) above fails to comply with the specifications.
- e) All costs related to G.11 are to be borne by the licensee.
- f) 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 5/6/99)

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 10/20/89)

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

In the situation where a licensee desires to re-certify a product that previously had certification removed because of failure to comply with the specifications (label and thickness tolerances excepted), the product shall be routinely sampled four times during the first year. The licensee shall pay the costs involved.

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 4/19/04)

G.17

When testing to ANSI only or CPSC 16CFR only, four samples shall be required for impact testing. For all specimens that are not symmetrical from surface to surface, an equal number of specimens shall be impacted on each side. (Revised 10/28/99)

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

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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 10/25/01) 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 10/20/89)

G.20 (Deleted 4/26/07)

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 bond form in the amount of \$10,000. The pre-issued SGCC® certification number, if not used by the licensee, will be terminated 12 months from the date of issue. The condition of the bond is such that if the licensee does not label any safety glazing material with the pre-issued certification number prior to formal certification then the bond shall be void.

G.22

In the case of wired glass (ANSI ONLY), plastics and organic coated glass certification of a patterned product may be extended to cover other patterns provided:

- 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.11a, and also that particular product be sampled by the Administrator for the additional sample required by Guideline G.11b.

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 10/25/01)
- 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 (ANSI ONLY)

Effective with the first of 2011 (F11) certification period, SGCC® shall only offer certification to ANSI Z97.1-2009. (Revised 4/29/10)

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 CPSC or ANSI, or both (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 and one specimen to be impact tested to 16 CFR 1201 (for all specimens that are not symmetrical from surface to surface a total of six impact test specimens must be submitted, four being tested to ANSI and CAN/CGSB 12.1 and two being tested to CPSC 16CFR 1201, with an equal number of specimens being 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 both standards. (Revised 10/10/12)

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, c, and e of G.11 shall be followed.

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 10/15/08)

G. 30

(Deleted 10/5/04)

G.31

(Deleted 10/5/04)

G.32 (CPSC ONLY)

When testing to Category II requirements, the Administrator shall select specimens greater than nine square feet in surface area.

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 4/26/07)

**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.) 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 10/22/93)

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 04/02/92)

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 two 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 10/10/12)

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 10/21/05)

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 10/01/02)

## 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. 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 4/26/07)

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

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

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.

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 10/5/04)

### 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 <http://www.sgcc.org/forms.cfm>) 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 4/2/08)

### 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. When testing to the impact test

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criteria in 16 CFR 1201.4(a)(1), four specimens shall be tested, or as noted in guideline G.27. (Revised 4/2/08)

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 4/2/08)

L.4

When a laminated glass is certified, other laminated glasses having a greater thickness of interlayer will be included in the certification. (Revised 4/2/08)

L.5

Laminated safety glass need not be identified by type of base glass.

L.6

Thickness of the interlayer shall be measured by the SGCC® standard method. (Revised 4/2/08)

L.7

For certification purposes, the following thickness tolerances shall be used. Thickness tolerance shall apply only to the overall thickness. The plus tolerance shall be the sum of all the individual plus tolerances of each layer of the laminate. The minus tolerance shall be the sum of all of the individual minus tolerances of each layer of the laminate. 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 10/15/08)

L.8

When a laminated annealed glass is certified, other laminated glasses having the same nominal thickness or thicknesses of heat strengthened or tempered glass and the same or greater thickness of interlayer of the same generic category will be considered to be included in the certification. (Revised 4/2/08)

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 4/2/08)

L.10

For certification to ANSI Z97.1, weathering tests (unless for indoor use only) 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 1/30/12)

L.11

An SGCC® certified participant may use any interlayer supplier on the SGCC® Accepted interlayer List of the same generic category. (Added 4/2/08)



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SGCC LIST OF ACCEPTED INTERLAYERS REVISED 2/21/13

| Generic Code | Description                    | Generic Code                                                                                                                                                                                                                         | Description                    | <i>Products using any other interlayer brand not on this SGCC-approved interlayer list will not be certified or covered under manufacturer's current certifications</i> |
|--------------|--------------------------------|--------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|--------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| (b)          | Ply Vinyl Butral               | (p)                                                                                                                                                                                                                                  | Polyethylene Terephthalate     |                                                                                                                                                                         |
| (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   | <i>*The BOD instructed that all weathering data must be updated to the 2009 version of ANSI Z97.1 by 10/1/12 - those interlayer manufacturers not providing updated weathering data to the 2009 standard have thus been removed.</i> |                                |                                                                                                                                                                         |

| Generic Class           | (b)                                                           | (b)                                         | (b)                                         | (b)                     | (b)                | (b)                                    | (b)                        | (b)                                                  | (ip)               | (lu)                               | (el)(p)                                             |
|-------------------------|---------------------------------------------------------------|---------------------------------------------|---------------------------------------------|-------------------------|--------------------|----------------------------------------|----------------------------|------------------------------------------------------|--------------------|------------------------------------|-----------------------------------------------------|
| Supplier                | Eastman Chemical Company (formerly Solutia)                   | Eastman Chemical Company (formerly Solutia) | Eastman Chemical Company (formerly Solutia) | DuPont                  | DuPont             | Kuraray                                | Chang Chun                 | Sekisui S-Lec America LLC                            | DuPont             | Bestroom Co. Ltd.                  | Polytronix Inc.                                     |
| Interlayer Brand        | Saflex IIG/Vanceva                                            | Saflex Specialty                            | Saflex Composite                            | Sentry Glas Expressions | Butacite           | Trosifol                               | Winlite                    | Sekisui S-LEC Film & Sekisui S-LEC Acoustic Film     | SentryGlas         | UVLAM                              | Polyvision Film                                     |
| Interlayer Formulations | Series A, C, D, F, H, M, N, P, R, S, W<br>Solutia report 8/11 | Saflex Q, AG, DB/DS<br>Solutia report 8/11  | Saflex V, K series<br>Solutia report 8/11   |                         | 50-56<br>551-553   | BG, AF, SC, VG, XT90, Solar R40, HR100 | .030                       | .030                                                 | .035               | .040                               | .075                                                |
| Weathering Data         | Solutia report 8/11                                           | Solutia report 8/11                         | Solutia report 8/11                         | DuPont report 3/11      | DuPont report 3/11 | Kuraray report 5/23/12                 | Guardian Report ALR 12-016 | ATI Report C0265.02-122-37 & C0265.01-122-37 6/12/12 | DuPont report 3/11 | Bestroom Laboratory Report 1/17/11 | <b>INDOOR USE ONLY - No weathering data on file</b> |

## WIRED GLASS (ANSI ONLY)

### W.1

Certification of one polished wired glass may be applied to other polished wired glasses provided:

- The glass thickness of the candidate glass is nominally equal to the thickness of the glass that is certified.
- The wire diameter of the candidate glass is at least as great as the wire diameter in the glass that is certified.
- The spacing of the wires in the candidate glass is no greater than the spacing of the wires in the glass that is certified.
- SGCC® has been presented with a test report indicating compliance of the candidate glass with the impact test requirements of ANSI Z97.1

After admission under the blanket certification covering wired glasses, all wired glasses so certified must be exposed to random sampling at each examination although only one will probably be selected for testing.

## **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 4/26/07)

LG.2 (Deleted 4/26/07)

LG.3 (Deleted 4/26/07)

**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 10/22/93). 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.

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**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-97.1-2009 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 10/10/12)
- 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-97.1-2009, 16 CFR 1201 and/or CAN/CGSB 12.1. (Revised 10/10/12)
- 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 10/26/10

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**~SGCC® LABEL REQUIREMENTS~** (Revised 10/10/12)

**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/CGSB) is included in the label, the product is not certified to that standard. (Revised 10/10/12))

The permanent label must contain the correct SGCC® number, ANSI Z97.1-2009 and/or 16 CFR 1201, and/or CAN/CGSB 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, B or C). (Revised 10/10/12)

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 1/1/09)

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 10/17/07)

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 10/21/05)

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 10/25/01)

**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 Z97.1-2009                | ANSI Z97.1-2009                | ANSI Z97.1-2009                |
| CAN/CGSB 12.1-M90              | CAN/CGSB 12.1-M90              | CAN/CGSB 12.1-M90              |
| 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 10/25/01)

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 Z97.1-2009                           | ANSI Z97.1-2009                            |
| 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 Z97.1-2009" or the characters "ANSI Z97.1-2009."
- 3) Classification of test size (L or U) and drop height class (A, B or C). 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 1/1/11)

### **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 10/21/05)

## **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.

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**CLASSIFIED TEMPERED GLASS PATTERNS**  
**(Number indicates SGCC Pattern ID#)**

**1/8 inch shallow**

|               |                |                  |                        |
|---------------|----------------|------------------|------------------------|
| (01) P-516    | (09) Spraylite | (34) Velvex      | (221) Gluechip Pattern |
| (37) Aquatex  | (39) Industrex | (82) Pattern 62  | (86) Showerlite        |
| (117) Solatex | (147) Solite   | (168) Pattern 50 | (111) Illusions        |

**1/8 inch medium**

|               |                 |              |                   |
|---------------|-----------------|--------------|-------------------|
| (04) Rattan   | (05) Cotswold   | (07) Burlap  | (08) Smooth Rough |
| (35) Flax     | (52) Pattern 73 | (56) Syenite | (57) Pattern 299  |
| (NEW) Glacier | (11) Flemish    | (167) Leaf   | (154) Rain        |

**1/8 inch deep**

(10) Autumn

**5/32 inch shallow**

|                |                 |                  |                  |              |                 |
|----------------|-----------------|------------------|------------------|--------------|-----------------|
| (64) Spraylite | (72) Velvex     | (75) Aquatex     | (183) Stippolyte | (186) Oak    | (111) Illusions |
| (118) Solatex  | (123) P-516     | (126) Pattern 62 | (128) Showerlite | (148) Solite |                 |
| (176) Hammered | (177) Industrex | (182) Sycamore   | (195) Chantilly  | (153) Flax   |                 |

**5/32 inch medium**

|                 |                   |              |               |               |
|-----------------|-------------------|--------------|---------------|---------------|
| (61) Cotswold   | (63) Smooth Rough | (66) Flemish | (181) Taffeta | (211) Niagara |
| (77) Pattern 73 | (155) Rain        | (73) Flax    | (222) Glacier |               |

**5/32 inch deep**

|             |              |              |               |              |
|-------------|--------------|--------------|---------------|--------------|
| (65) Autumn | (67) Oceanic | (173) Fluted | (180) Warwick | (184) Reeded |
|-------------|--------------|--------------|---------------|--------------|

**3/16 inch shallow**

|                 |              |                 |                 |                  |                        |
|-----------------|--------------|-----------------|-----------------|------------------|------------------------|
| (50) Pattern 62 | (51) P-516   | (54) Showerlite | (116) Heliolite | (119) Solatex    | (122) Sunadex          |
| (131) Industrex | (132) Velvex | (133) Aquatex   | (140) Flax      | (142) Chinchilla | (149) Solite           |
| (171) Crepe     | (172) Pebble | (125) Spraylite | (159) Model 10  | (111) Illusions  | (220) Gluechip Pattern |

**3/16 inch medium**

|                 |               |                |            |               |                    |
|-----------------|---------------|----------------|------------|---------------|--------------------|
| (143) Seashell  | (144) Syenite | (145) Flemish  | (176) Rain | (210) Niagara | (213) Smooth Rough |
| (214) Floralite | (216) Privata | (218) Radiance |            |               |                    |

**3/16 inch deep**

|              |              |                      |              |              |               |
|--------------|--------------|----------------------|--------------|--------------|---------------|
| (12) Oceanic | (14) Lozenge | (174) Krystal Flutes | (178) Flutex | (179) Bamboo | (222) Glacier |
|--------------|--------------|----------------------|--------------|--------------|---------------|

**2/10 inch shallow**

|                 |                  |                    |                 |                  |                |
|-----------------|------------------|--------------------|-----------------|------------------|----------------|
| (89) Velvex     | (90) Muralex     | (91) Industrex     | (92) Aquatex    | (93) Pattern 100 | (94) Pattern 6 |
| (95) Pattern 62 | (96) Spraylite   | (97) Burlap        | (98) Factrolite | (99) Satinlite   | (100) Luxlite  |
| (101) J-3       | (102) P-516      | (103) Smooth Rough | (105) Cascade   | (106) Pluralite  | (108) Flax     |
| (110) Skytex    | (115) Chinchilla |                    |                 |                  |                |

**7/32 inch shallow**

|                |                |                   |                 |                |                 |
|----------------|----------------|-------------------|-----------------|----------------|-----------------|
| (14) Velvex    | (16) Industrex | (17) Aquatex      | (20) Pattern 62 | (21) Spraylite | (22) Burlap     |
| (24) Satinlite | (27) P-516     | (28) Smooth Rough | (30) Cascade    | (44) Flax      | (84) Chinchilla |

**7/32 inch medium**

|               |              |               |
|---------------|--------------|---------------|
| (42) Seashell | (48) Flemish | (209) Niagara |
|---------------|--------------|---------------|

**7/32 inch deep**

|              |                |
|--------------|----------------|
| (29) Lizenge | (53) Boardlite |
|--------------|----------------|

**1/4 inch shallow**

|             |              |                |              |              |                 |            |
|-------------|--------------|----------------|--------------|--------------|-----------------|------------|
| (169) P-516 | (197) Strata | (198) Staccato | (200) Matrix | (203) Autumn | (111) Illusions | (299) Rain |
|-------------|--------------|----------------|--------------|--------------|-----------------|------------|

**1/4 inch medium**

|              |              |               |                 |               |
|--------------|--------------|---------------|-----------------|---------------|
| (175) Fluted | (199) Reeded | (201) Flemish | (202) Everglade | (208) Niagara |
|--------------|--------------|---------------|-----------------|---------------|

**1/4 inch deep**

|               |               |
|---------------|---------------|
| (222) Glacier | (223) Pyramid |
|---------------|---------------|

**3/8 inch shallow**

|            |                  |
|------------|------------------|
| (204) Rain | (205) Stippolyte |
|------------|------------------|

**Note: Numbers in parenthesis represent internal coding.**

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***Certified Products-Numerical Sequence***

| <b>SGCC No.</b> |                                      | <b>SGCC No.</b> |                                       | <b>SGCC No.</b> |                                      |
|-----------------|--------------------------------------|-----------------|---------------------------------------|-----------------|--------------------------------------|
| 12              | Virginia Glass Products Corp.        | 1301            | Guardian Industries Corp.             | 1677            | Contour Industries, Inc.             |
| 14              | Virginia Glass Products Corp.        | 1303            | Guardian Industries Corp.             | 1678            | Contour Industries, Inc.             |
| 89              | AGC Flat Glass North America         | 1304            | Guardian Industries Corp.             | 1680            | Contour Industries, Inc.             |
| 90              | AGC Flat Glass North America         | 1332            | SCHOTT Gemtron - Sweetwater           | 1683            | Guardian Industries Corp.            |
| 93              | Virginia Glass Products Corp.        | 1334            | SCHOTT Gemtron - Sweetwater           | 1702            | AGC Flat Glass North America         |
| 94              | Virginia Glass Products Corp.        | 1382            | Oldcastle BuildingEnvelope™           | 1703            | AGC Flat Glass North America         |
| 95              | Virginia Glass Products Corp.        | 1383            | Oldcastle BuildingEnvelope™           | 1704            | AGC Flat Glass North America         |
| 131             | Guardian Industries Corp.            | 1384            | Oldcastle BuildingEnvelope™           | 1705            | AGC Flat Glass North America         |
| 220             | AGC Flat Glass North America         | 1403            | Viracon Inc.                          | 1710            | AGC Flat Glass North America         |
| 249             | PPG Inds. Inc.                       | 1404            | Viracon Inc.                          | 1711            | AGC Flat Glass North America         |
| 250             | PPG Inds. Inc.                       | 1405            | AGC Flat Glass North America          | 1712            | AGC Flat Glass North America         |
| 300             | Guardian Webster, Inc.               | 1406            | AGC Flat Glass North America          | 1714            | AGC Flat Glass North America         |
| 382             | PPG Inds. Inc.                       | 1416            | Nashville Tempered Glass Corp.        | 1754            | All Team Glass & Mirror, Ltd.        |
| 471             | Guardian Webster, Inc.               | 1417            | Nashville Tempered Glass Corp.        | 1755            | All Team Glass & Mirror, Ltd.        |
| 514             | Oldcastle BuildingEnvelope™          | 1422            | SCHOTT Gemtron - Sweetwater           | 1756            | All Team Glass & Mirror, Ltd.        |
| 515             | Oldcastle BuildingEnvelope™          | 1424            | SCHOTT Gemtron - Sweetwater           | 1757            | All Team Glass & Mirror, Ltd.        |
| 516             | Oldcastle BuildingEnvelope™          | 1428            | AGC Flat Glass North America          | 1758            | All Team Glass & Mirror, Ltd.        |
| 520             | Anthony International                | 1467            | Nashville Tempered Glass Corp.        | 1784            | Trulite Glass and Aluminum Solutions |
| 587             | AGC Flat Glass North America         | 1477            | SCHOTT Gemtron - Sweetwater           | 1785            | Trulite Glass and Aluminum Solutions |
| 598             | AGC Flat Glass North America         | 1508            | Viracon Inc.                          | 1786            | Trulite Glass and Aluminum Solutions |
| 630             | Oldcastle BuildingEnvelope™          | 1509            | Viracon Inc.                          | 1787            | Trulite Glass and Aluminum Solutions |
| 631             | Guardian Industries Corp.            | 1518            | AGC Flat Glass North America          | 1788            | Trulite Glass and Aluminum Solutions |
| 662             | Guardian Webster, Inc.               | 1520            | AGC Flat Glass North America          | 1790            | Trulite Glass and Aluminum Solutions |
| 675             | PPG Inds. Inc.                       | 1521            | AGC Flat Glass North America          | 1803            | Guardian Industries Corp.            |
| 862             | Trulite Glass and Aluminum Solutions | 1522            | AGC Flat Glass North America          | 1804            | Cardinal TG                          |
| 863             | Trulite Glass and Aluminum Solutions | 1523            | AGC Flat Glass North America          | 1805            | Cardinal TG                          |
| 865             | Trulite Glass and Aluminum Solutions | 1536            | Oldcastle BuildingEnvelope™           | 1806            | Cardinal TG                          |
| 866             | Trulite Glass and Aluminum Solutions | 1546            | Oldcastle BuildingEnvelope™           | 1807            | Cardinal TG                          |
| 933             | Guardian Industries Corp.            | 1547            | Oldcastle BuildingEnvelope™           | 1826            | Guardian Industries Corp.            |
| 934             | Guardian Industries Corp.            | 1548            | Oldcastle BuildingEnvelope™           | 1827            | Cardinal IG                          |
| 935             | Oldcastle BuildingEnvelope™          | 1549            | Oldcastle BuildingEnvelope™           | 1828            | Cardinal IG                          |
| 955             | AGC Flat Glass North America         | 1550            | Oldcastle BuildingEnvelope™           | 1829            | Cardinal IG                          |
| 968             | Guardian Industries Corp.            | 1551            | Oldcastle BuildingEnvelope™           | 1830            | Cardinal IG                          |
| 969             | Guardian Industries Corp.            | 1555            | Swift Glass Co., Inc.                 | 1831            | Cardinal IG                          |
| 970             | Guardian Industries Corp.            | 1556            | Swift Glass Co., Inc.                 | 1832            | Cardinal IG                          |
| 971             | Guardian Industries Corp.            | 1557            | Swift Glass Co., Inc.                 | 1833            | Cardinal IG                          |
| 999             | Anthony International                | 1558            | Swift Glass Co., Inc.                 | 1834            | Cardinal IG                          |
| 1000            | Anthony International                | 1559            | Swift Glass Co., Inc.                 | 1841            | Cardinal IG                          |
| 1035            | Consolidated Glass Holdings, Inc.    | 1575            | Custom Glass Solutions Millbury Corp. | 1842            | Cardinal IG                          |
| 1036            | Consolidated Glass Holdings, Inc.    |                 |                                       | 1843            | Cardinal IG                          |
| 1037            | Consolidated Glass Holdings, Inc.    | 1576            | Custom Glass Solutions Millbury Corp. | 1844            | Cardinal IG                          |
| 1110            | PPG Inds., Inc.                      |                 |                                       | 1845            | Cardinal IG                          |
| 1111            | PPG Inds., Inc.                      | 1577            | Custom Glass Solutions Millbury Corp. | 1846            | Cardinal IG                          |
| 1112            | PPG Inds., Inc.                      |                 |                                       | 1864            | Saint-Gobain SOVIS                   |
| 1113            | PPG Inds., Inc.                      | 1603            | PPG Inds. Inc.                        | 1865            | Guardian Industries Corp.            |
| 1139            | AGC Flat Glass North America         | 1604            | PPG Inds. Inc.                        | 1871            | Consolidated Glass Holdings, Inc.    |
| 1201            | SCHOTT Gemtron - Sweetwater          | 1605            | PPG Inds. Inc.                        | 1882            | Guardian Industries Corp.            |
| 1216            | Guardian Webster, Inc.               | 1606            | PPG Inds. Inc.                        | 1889            | Commercial Insulating Glass Co.      |
| 1230            | AGC Flat Glass North America         | 1607            | Guardian Webster, Inc.                | 1890            | Commercial Insulating Glass Co.      |
| 1231            | AGC Flat Glass North America         | 1608            | Oldcastle BuildingEnvelope™           | 1891            | Commercial Insulating Glass Co.      |
| 1232            | AGC Flat Glass North America         | 1609            | Oldcastle BuildingEnvelope™           | 1901            | EFCO Corporation                     |
| 1235            | Guardian Webster, Inc.               | 1630            | Guardian Industries Corp.             | 1902            | EFCO Corporation                     |
| 1248            | Guardian Industries Corp.            | 1631            | Guardian Industries Corp.             | 1910            | Coral Industries Glass Division      |
| 1249            | Guardian Industries Corp.            | 1632            | Guardian Industries Corp.             | 1911            | Coral Industries Glass Division      |
| 1250            | Guardian Industries Corp.            | 1633            | Guardian Industries Corp.             | 1921            | Cardinal CG                          |
| 1251            | Guardian Industries Corp.            | 1634            | Guardian Industries Corp.             | 1922            | Cardinal CG                          |
| 1253            | Guardian Industries Corp.            | 1635            | Guardian Industries Corp.             | 1923            | Cardinal CG                          |
|                 |                                      | 1637            | Viracon Inc.                          |                 |                                      |



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| <b>SGCC No.</b> |                                   | <b>SGCC No.</b> |                                   | <b>SGCC No.</b> |                                   |
|-----------------|-----------------------------------|-----------------|-----------------------------------|-----------------|-----------------------------------|
| 1924            | Cardinal CG                       | 2062            | Oldcastle BuildingEnvelope™       | 2282            | GGI Glass Distributors Corp.      |
| 1939            | Consolidated Glass Holdings, Inc. | 2063            | Oldcastle BuildingEnvelope™       | 2285            | Cardinal IG                       |
| 1957            | AGC Flat Glass North America      | 2067            | Cardinal CG                       | 2286            | Cardinal IG                       |
| 1958            | AGC Flat Glass North America      | 2068            | Cardinal CG                       | 2287            | Tecnolgass S.A.                   |
| 1959            | AGC Flat Glass North America      | 2069            | Cardinal CG                       | 2289            | Anthony International             |
| 1964            | Coral Industries Glass Division   | 2070            | Cardinal CG                       | 2293            | Cardinal CG                       |
| 1967            | AGC Flat Glass North America      | 2071            | Cardinal CG                       | 2294            | Cardinal CG                       |
| 1979            | Kohler Company                    | 2074            | Oldcastle BuildingEnvelope™       | 2295            | Cardinal CG                       |
| 1980            | Kohler Company                    | 2133            | Tecnolgass S.A.                   | 2296            | Cardinal CG                       |
| 1981            | Kohler Company                    | 2134            | Tecnolgass S.A.                   | 2305            | Anthony International             |
| 1982            | Kohler Company                    | 2135            | Tecnolgass S.A.                   | 2306            | Anthony International             |
| 1983            | Kohler Company                    | 2143            | EFCO Corporation                  | 2307            | Anthony International             |
| 1984            | Kohler Company                    | 2144            | Coral Industries Glass Division   | 2308            | Oldcastle BuildingEnvelope™       |
| 1985            | Cardinal CG                       | 2145            | Coral Industries Glass Division   | 2310            | Viracon Inc.                      |
| 1986            | Cardinal CG                       | 2146            | Cardinal CG                       | 2311            | Viracon Inc.                      |
| 1987            | Cardinal CG                       | 2160            | AGC Flat Glass North America      | 2314            | Viracon Inc.                      |
| 1988            | Cardinal CG                       | 2176            | Cardinal IG                       | 2317            | Cardinal IG                       |
| 1991            | Berkowitz, J.E.                   | 2177            | Cardinal IG                       | 2318            | Cardinal IG                       |
| 1992            | Saint-Gobain SOVIS                | 2178            | Cardinal IG                       | 2319            | Cardinal IG                       |
| 1993            | Tecnolgass S.A.                   | 2179            | Cardinal IG                       | 2320            | Cardinal IG                       |
| 1994            | Tecnolgass S.A.                   | 2182            | Virginia Glass Products Corp.     | 2321            | Cardinal IG                       |
| 1995            | Tecnolgass S.A.                   | 2185            | Glaz-Tech Industries              | 2322            | Cardinal IG                       |
| 1996            | Oldcastle BuildingEnvelope™       | 2186            | Glaz-Tech Industries              | 2323            | Cardinal IG                       |
| 1997            | Oldcastle BuildingEnvelope™       | 2187            | Glaz-Tech Industries              | 2328            | Cardinal IG                       |
| 1998            | Consolidated Glass Corp.          | 2188            | Glaz-Tech Industries              | 2329            | Cardinal IG                       |
| 1999            | Consolidated Glass Corp.          | 2189            | Glaz-Tech Industries              | 2330            | Cardinal IG                       |
| 2002            | Consolidated Glass Corp.          | 2190            | Glaz-Tech Industries              | 2331            | Cardinal IG                       |
| 2003            | Consolidated Glass Corp.          | 2193            | Glaz-Tech Industries              | 2332            | Saint Gobain Mexico, S.A. de C.V. |
| 2004            | Consolidated Glass Corp.          | 2197            | AGC Flat Glass North America      | 2352            | Anthony International             |
| 2005            | Consolidated Glass Corp.          | 2198            | AGC Flat Glass North America      | 2353            | Anthony International             |
| 2007            | Cardinal CG                       | 2199            | AGC Flat Glass North America      | 2354            | Consolidated Glass Corp.          |
| 2008            | Cardinal CG                       | 2200            | AGC Flat Glass North America      | 2355            | Consolidated Glass Corp.          |
| 2009            | Cardinal CG                       | 2203            | Cardinal IG                       | 2357            | Cardinal CG                       |
| 2010            | Cardinal CG                       | 2204            | Cardinal IG                       | 2358            | Cardinal CG                       |
| 2011            | Cardinal CG                       | 2205            | Cardinal IG                       | 2359            | Cardinal CG                       |
| 2012            | Cardinal CG                       | 2210            | Oldcastle BuildingEnvelope™       | 2360            | Cardinal CG                       |
| 2013            | Cardinal CG                       | 2211            | Oldcastle BuildingEnvelope™       | 2365            | Tecnolgass S.A.                   |
| 2015            | Prelco Inc.                       | 2212            | Oldcastle BuildingEnvelope™       | 2381            | Prelco Inc.                       |
| 2020            | Guardian Industries Corp.         | 2213            | Oldcastle BuildingEnvelope™       | 2389            | PGT Industries                    |
| 2021            | Guardian Industries Corp.         | 2214            | Oldcastle BuildingEnvelope™       | 2390            | PGT Industries                    |
| 2022            | Guardian Industries Corp.         | 2215            | Oldcastle BuildingEnvelope™       | 2391            | PGT Industries                    |
| 2023            | Guardian Industries Corp.         | 2216            | Oldcastle BuildingEnvelope™       | 2397            | Cardinal IG                       |
| 2024            | Guardian Industries Corp.         | 2226            | GGI Glass Distributors Corp.      | 2399            | Cardinal IG                       |
| 2032            | Cameron Glass, Inc.               | 2227            | GGI Glass Distributors Corp.      | 2406            | AGC Flat Glass North America      |
| 2033            | Cameron Glass, Inc.               | 2228            | GGI Glass Distributors Corp.      | 2417            | Nashville Tempered Glass Corp.    |
| 2034            | Prelco Inc.                       | 2231            | Cardinal IG                       | 2420            | Nashville Tempered Glass Corp.    |
| 2035            | Prelco Inc.                       | 2232            | Cardinal IG                       | 2423            | Vetzeria Valentini S.R.L.         |
| 2048            | Prelco Inc.                       | 2233            | Cardinal IG                       | 2426            | PGT Industries                    |
| 2050            | Intigral                          | 2234            | Cardinal IG                       | 2432            | Changshu Zhongxin Bldg. Mat. Co.  |
| 2051            | Intigral                          | 2235            | Cardinal IG                       | 2434            | Kohler Company                    |
| 2052            | Intigral                          | 2248            | Saint-Gobain SOVIS                | 2444            | Goldray Industries Ltd.           |
| 2053            | Oldcastle BuildingEnvelope™       | 2259            | Guardian Industries Corp.         | 2445            | Goldray Industries Ltd.           |
| 2054            | AGC Flat Glass North America      | 2260            | Guardian Industries Corp.         | 2446            | Goldray Industries Ltd.           |
| 2055            | Intigral                          | 2261            | Guardian Industries Corp.         | 2447            | Goldray Industries Ltd.           |
| 2056            | Patio Enclosures                  | 2262            | Guardian Industries Corp.         | 2448            | Goldray Industries Ltd.           |
| 2057            | Patio Enclosures                  | 2267            | Saint Gobain Mexico, S.A. de C.V. | 2449            | Goldray Industries Ltd.           |
| 2058            | Patio Enclosures                  | 2269            | Saint Gobain Mexico, S.A. de C.V. | 2451            | Guardian Webster, Inc.            |

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|-----------------|-----------------------------------|-----------------|----------------------------------------------------|-----------------|----------------------------------------------------|
| 2453            | Anthony International             | 2629            | Multiver                                           | 2789            | Trulite Glass & Aluminum Solutions                 |
| 2455            | Cameron Glass, Inc.               | 2644            | Coral Industries Glass Division                    | 2790            | All Team Glass & Mirror, Ltd.                      |
| 2458            | Guardian Industries Corp.         | 2646            | Berkowitz, J.E.                                    | 2801            | SAAND Rexdale                                      |
| 2459            | Guardian Industries Corp.         | 2647            | Berkowitz, J.E.                                    | 2802            | SAAND Rexdale                                      |
| 2460            | Guardian Industries Corp.         | 2649            | Guardian Industries Corp.                          | 2803            | SAAND Rexdale                                      |
| 2462            | Cardinal LG                       | 2654            | Syracuse Glass Co., Inc.                           | 2804            | SAAND Rexdale                                      |
| 2467            | United Plate Glass Co., Inc.      | 2656            | Syracuse Glass Co., Inc.                           | 2805            | SAAND Rexdale                                      |
| 2468            | United Plate Glass Co., Inc.      | 2657            | Syracuse Glass Co., Inc.                           | 2806            | SAAND Rexdale                                      |
| 2469            | United Plate Glass Co., Inc.      | 2661            | Downey Glass Industries, LLC                       | 2808            | SAAND Rexdale                                      |
| 2470            | United Plate Glass Co., Inc.      | 2662            | Downey Glass Industries, LLC                       | 2831            | Cardinal IG                                        |
| 2471            | United Plate Glass Co., Inc.      | 2663            | Downey Glass Industries, LLC                       | 2833            | Cardinal IG                                        |
| 2472            | United Plate Glass Co., Inc.      | 2664            | Downey Glass Industries, LLC                       | 2834            | Cardinal IG                                        |
| 2473            | United Plate Glass Co., Inc.      | 2665            | Downey Glass Industries, LLC                       | 2840            | Trulite Glass & Aluminum Solutions                 |
| 2474            | United Plate Glass Co., Inc.      | 2666            | AGC Flat Glass North America                       | 2842            | Milgard Tempering                                  |
| 2475            | United Plate Glass Co., Inc.      | 2678            | TRACO (Three Rivers Alum)                          | 2850            | Eckelt Glas GmbH                                   |
| 2480            | AGC Flat Glass North America      | 2683            | United Plate Glass Co., Inc.                       | 2851            | Eckelt Glas GmbH                                   |
| 2481            | Triple Seal Ltd.                  | 2684            | Spec-Temp, Inc.                                    | 2852            | Eckelt Glas GmbH                                   |
| 2482            | Triple Seal Ltd.                  | 2685            | Spec-Temp, Inc.                                    | 2853            | Eckelt Glas GmbH                                   |
| 2484            | Triple Seal Ltd.                  | 2686            | Spec-Temp, Inc.                                    | 2854            | Eckelt Glas GmbH                                   |
| 2488            | TRACO (Three Rivers Alum)         | 2687            | Spec-Temp, Inc.                                    | 2855            | Eckelt Glas GmbH                                   |
| 2489            | TRACO (Three Rivers Alum)         | 2688            | Spec-Temp, Inc.                                    | 2857            | Cardinal IG                                        |
| 2490            | TRACO (Three Rivers Alum)         | 2691            | Nashville Tempered Glass LLC                       | 2858            | Cardinal IG                                        |
| 2494            | Nashville Tempered Glass Corp.    | 2692            | Nashville Tempered Glass LLC                       | 2859            | Cardinal IG                                        |
| 2497            | Nashville Tempered Glass Corp.    | 2693            | Nashville Tempered Glass LLC                       | 2878            | Cardinal CG                                        |
| 2498            | Multiver                          | 2694            | Nashville Tempered Glass LLC                       | 2879            | Cardinal CG                                        |
| 2499            | Multiver                          | 2698            | Engineered Glass Products, L.L.C.                  | 2880            | Cardinal CG                                        |
| 2501            | Cameron Glass, Inc.               | 2699            | Cardinal CG                                        | 2881            | Cardinal CG                                        |
| 2507            | AGC Flat Glass North America      | 2700            | Cardinal CG                                        | 2884            | Oldcastle BuildingEnvelope™                        |
| 2509            | AGC Flat Glass North America      | 2701            | Cardinal CG                                        | 2885            | Oldcastle BuildingEnvelope™                        |
| 2510            | AGC Flat Glass North America      | 2702            | Cardinal CG                                        | 2887            | Simonton Windows                                   |
| 2519            | Guardian Industries Corp.         | 2705            | Cardinal CG                                        | 2888            | Simonton Windows                                   |
| 2521            | AGC Flat Glass North America      | 2709            | Dong Sung Glass Korea, Co., Ltd.                   | 2889            | TianJin Dong Sung Home Building Materials Co. Ltd. |
| 2522            | AGC Flat Glass North America      | 2713            | Prelco Inc.                                        | 2890            | TianJin Dong Sung Home Building Materials Co. Ltd. |
| 2543            | Oldcastle BuildingEnvelope™       | 2714            | TRACO (Three Rivers Alum)                          | 2894            | Tecnolgass S.A.                                    |
| 2544            | Oldcastle BuildingEnvelope™       | 2715            | TRACO (Three Rivers Alum)                          | 2898            | Vetreteria Valentini S.R.L.                        |
| 2545            | Guardian Industries Corp.         | 2716            | TRACO (Three Rivers Alum)                          | 2899            | AGC Flat Glass North America                       |
| 2547            | Techni-Glass, Inc.                | 2719            | TRACO (Three Rivers Alum)                          | 2900            | AGC Flat Glass North America                       |
| 2548            | Techni-Glass, Inc.                | 2727            | Anthony International                              | 2901            | AGC Flat Glass North America                       |
| 2549            | Techni-Glass, Inc.                | 2728            | Glass Dynamics, Inc.                               | 2902            | AGC Flat Glass North America                       |
| 2550            | Techni-Glass, Inc.                | 2729            | Glass Dynamics, Inc.                               | 2903            | AGC Flat Glass North America                       |
| 2569            | Bendheim Wall Systems             | 2730            | Glass Dynamics, Inc.                               | 2904            | Changshu Hard Glass Co., Ltd.                      |
| 2570            | Bendheim Wall Systems             | 2731            | Glass Dynamics, Inc.                               | 2909            | Cardinal FG                                        |
| 2572            | Intex Glass (Xiamen) Co., Ltd.    | 2732            | Glass Dynamics, Inc.                               | 2910            | Cardinal FG                                        |
| 2573            | Intex Glass (Xiamen) Co., Ltd.    | 2733            | Glass Dynamics, Inc.                               | 2911            | Cardinal FG                                        |
| 2574            | Intex Glass (Xiamen) Co., Ltd.    | 2734            | Glass Dynamics, Inc.                               | 2912            | Cardinal FG                                        |
| 2575            | Intex Glass (Xiamen) Co., Ltd.    | 2743            | Saint Gobain Mexico, S.A. de C.V.                  | 2918            | Kohler Company                                     |
| 2576            | Intex Glass (Xiamen) Co., Ltd.    | 2748            | TRACO (Three Rivers Alum)                          | 2919            | Cardinal IG                                        |
| 2577            | Intex Glass (Xiamen) Co., Ltd.    | 2751            | Prelco Inc.                                        | 2920            | Cardinal IG                                        |
| 2578            | Amsco Windows                     | 2768            | AGC Flat Glass North America                       | 2921            | Cardinal IG                                        |
| 2580            | Amsco Windows                     | 2769            | Saint-Gobain SOVIS                                 | 2922            | Cardinal IG                                        |
| 2581            | Amsco Windows                     | 2770            | Saint-Gobain SOVIS                                 | 2923            | Cardinal IG                                        |
| 2582            | Amsco Windows                     | 2779            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB | 2924            | Cardinal IG                                        |
| 2584            | Amsco Windows                     | 2780            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB | 2928            | GGI Glass Distributors Corp.                       |
| 2589            | Engineered Glass Products, L.L.C. | 2787            | Trulite Glass & Aluminum Solutions                 | 2944            | Coral Industries Glass Division                    |
| 2590            | Engineered Glass Products, L.L.C. | 2788            | Trulite Glass & Aluminum Solutions                 | 2945            | Coral Industries Glass Division                    |
| 2592            | AGC Flat Glass North America      |                 |                                                    |                 |                                                    |
| 2603            | Guardian Webster, Inc.            |                 |                                                    |                 |                                                    |

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| <b>SGCC No.</b> |                                                | <b>SGCC No.</b> |                                                    | <b>SGCC No.</b> |                             |
|-----------------|------------------------------------------------|-----------------|----------------------------------------------------|-----------------|-----------------------------|
| 2954            | Cardinal CG                                    | 3056            | XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)     | 3125            | Oldcastle BuildingEnvelope™ |
| 2955            | Cardinal CG                                    |                 |                                                    | 3127            | Oldcastle BuildingEnvelope™ |
| 2956            | Cardinal CG                                    | 3060            | Techni-Glass, Inc.                                 | 3128            | Oldcastle BuildingEnvelope™ |
| 2957            | Syracuse Glass Co., Inc.                       | 3061            | Techni-Glass, Inc.                                 | 3129            | Oldcastle BuildingEnvelope™ |
| 2958            | Syracuse Glass Co., Inc.                       | 3062            | Techni-Glass, Inc.                                 | 3130            | Oldcastle BuildingEnvelope™ |
| 2959            | Trulite Glass and Aluminum Solutions           | 3067            | SCHOTT Gemtron (Canada) Corporation                | 3131            | Oldcastle BuildingEnvelope™ |
| 2960            | Trulite Glass and Aluminum Solutions           |                 |                                                    | 3132            | Oldcastle BuildingEnvelope™ |
| 2961            | SIGCO, Inc.                                    | 3068            | Cardinal IG                                        | 3133            | Oldcastle BuildingEnvelope™ |
| 2962            | SIGCO, Inc.                                    | 3069            | Cardinal IG                                        | 3134            | Oldcastle BuildingEnvelope™ |
| 2963            | SIGCO, Inc.                                    | 3070            | Cardinal IG                                        | 3135            | Oldcastle BuildingEnvelope™ |
| 2964            | SIGCO, Inc.                                    | 3071            | Cardinal IG                                        | 3136            | Oldcastle BuildingEnvelope™ |
| 2965            | SIGCO, Inc.                                    | 3072            | Cardinal IG                                        | 3137            | Oldcastle BuildingEnvelope™ |
| 2966            | SIGCO, Inc.                                    | 3073            | Cardinal IG                                        | 3138            | Oldcastle BuildingEnvelope™ |
| 2967            | SIGCO, Inc.                                    | 3074            | Viwinco, Inc.                                      | 3139            | Oldcastle BuildingEnvelope™ |
| 2968            | Quaker Window Products, Inc.                   | 3076            | Anlin Industries                                   | 3140            | Oldcastle BuildingEnvelope™ |
| 2969            | Quaker Window Products, Inc.                   | 3077            | Anlin Industries                                   | 3141            | Oldcastle BuildingEnvelope™ |
| 2970            | Quaker Window Products, Inc.                   | 3078            | Anlin Industries                                   | 3142            | Oldcastle BuildingEnvelope™ |
| 2975            | Techni-Glass, Inc.                             | 3079            | Anlin Industries                                   | 3143            | Oldcastle BuildingEnvelope™ |
| 2976            | Cardinal LG                                    | 3081            | AGC Flat Glass North America                       | 3144            | Oldcastle BuildingEnvelope™ |
| 2980            | AGC Flat Glass North America                   | 3082            | AGC Flat Glass North America                       | 3145            | Oldcastle BuildingEnvelope™ |
| 2981            | Quality Glass & Mirror, Inc.                   | 3085            | XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)     | 3146            | Oldcastle BuildingEnvelope™ |
| 2982            | Quality Glass & Mirror, Inc.                   |                 |                                                    | 3147            | Oldcastle BuildingEnvelope™ |
| 2983            | Quality Glass & Mirror, Inc.                   | 3086            | Chicago Tempered Glass, Inc.                       | 3148            | Oldcastle BuildingEnvelope™ |
| 2984            | Quality Glass & Mirror, Inc.                   | 3087            | Chicago Tempered Glass, Inc.                       | 3149            | Oldcastle BuildingEnvelope™ |
| 2985            | Quaker Window Products, Inc.                   | 3088            | Chicago Tempered Glass, Inc.                       | 3151            | Oldcastle BuildingEnvelope™ |
| 2986            | Quaker Window Products, Inc.                   | 3089            | Chicago Tempered Glass, Inc.                       | 3152            | Oldcastle BuildingEnvelope™ |
| 2987            | Changshu Hard Glass Co., Ltd.                  | 3090            | Chicago Tempered Glass, Inc.                       | 3153            | Oldcastle BuildingEnvelope™ |
| 2988            | Changshu Hard Glass Co., Ltd.                  | 3091            | AGC Flat Glass North America                       | 3154            | Oldcastle BuildingEnvelope™ |
| 2999            | AGC Flat Glass North America                   | 3094            | TianJin Dong Sung Home Building Materials Co. Ltd. | 3155            | Oldcastle BuildingEnvelope™ |
| 3001            | Consolidated Glass Holdings, Inc.              |                 |                                                    | 3156            | Oldcastle BuildingEnvelope™ |
| 3002            | Guardian Industries Corp.                      | 3095            | Oldcastle BuildingEnvelope™                        | 3157            | Oldcastle BuildingEnvelope™ |
| 3003            | Guardian Industries Corp.                      | 3096            | Oldcastle BuildingEnvelope™                        | 3158            | Oldcastle BuildingEnvelope™ |
| 3006            | AGC Flat Glass North America                   | 3097            | Oldcastle BuildingEnvelope™                        | 3159            | Oldcastle BuildingEnvelope™ |
| 3007            | AGC Flat Glass North America                   | 3098            | Oldcastle BuildingEnvelope™                        | 3160            | Oldcastle BuildingEnvelope™ |
| 3008            | AGC Flat Glass North America                   | 3099            | Oldcastle BuildingEnvelope™                        | 3161            | Oldcastle BuildingEnvelope™ |
| 3009            | AGC Flat Glass North America                   | 3100            | Oldcastle BuildingEnvelope™                        | 3163            | Oldcastle BuildingEnvelope™ |
| 3010            | AGC Flat Glass North America                   | 3101            | Oldcastle BuildingEnvelope™                        | 3164            | Oldcastle BuildingEnvelope™ |
| 3011            | AGC Flat Glass North America                   | 3102            | Oldcastle BuildingEnvelope™                        | 3165            | Oldcastle BuildingEnvelope™ |
| 3015            | Patio Enclosures                               | 3103            | Oldcastle BuildingEnvelope™                        | 3166            | Oldcastle BuildingEnvelope™ |
| 3017            | Dlubak Corporation                             | 3104            | Oldcastle BuildingEnvelope™                        | 3167            | Oldcastle BuildingEnvelope™ |
| 3018            | Dlubak Corporation                             | 3105            | Oldcastle BuildingEnvelope™                        | 3168            | Oldcastle BuildingEnvelope™ |
| 3019            | Dlubak Corporation                             | 3106            | Oldcastle BuildingEnvelope™                        | 3169            | Oldcastle BuildingEnvelope™ |
| 3023            | Triple Seal Ltd.                               | 3107            | Oldcastle BuildingEnvelope™                        | 3170            | Oldcastle BuildingEnvelope™ |
| 3024            | Guardian Webster, Inc.                         | 3108            | Oldcastle BuildingEnvelope™                        | 3171            | Oldcastle BuildingEnvelope™ |
| 3025            | Intex Glass (Xiamen) Co., Ltd.                 | 3109            | Oldcastle BuildingEnvelope™                        | 3172            | Oldcastle BuildingEnvelope™ |
| 3027            | Anthony International                          | 3110            | Oldcastle BuildingEnvelope™                        | 3173            | Oldcastle BuildingEnvelope™ |
| 3028            | SIGCO, Inc.                                    | 3111            | Oldcastle BuildingEnvelope™                        | 3176            | Oldcastle BuildingEnvelope™ |
| 3039            | American Shower Door                           | 3112            | Oldcastle BuildingEnvelope™                        | 3177            | Oldcastle BuildingEnvelope™ |
| 3040            | American Shower Door                           | 3113            | Oldcastle BuildingEnvelope™                        | 3178            | Oldcastle BuildingEnvelope™ |
| 3041            | American Shower Door                           | 3114            | Oldcastle BuildingEnvelope™                        | 3179            | Oldcastle BuildingEnvelope™ |
| 3042            | American Shower Door                           | 3115            | Cardinal IG                                        | 3180            | Oldcastle BuildingEnvelope™ |
| 3043            | American Shower Door                           | 3116            | Oldcastle BuildingEnvelope™                        | 3181            | Oldcastle BuildingEnvelope™ |
| 3053            | XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.) | 3118            | Oldcastle BuildingEnvelope™                        | 3182            | Oldcastle BuildingEnvelope™ |
|                 |                                                | 3119            | Oldcastle BuildingEnvelope™                        | 3183            | Oldcastle BuildingEnvelope™ |
| 3054            | XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.) | 3120            | Oldcastle BuildingEnvelope™                        | 3184            | Oldcastle BuildingEnvelope™ |
|                 |                                                | 3121            | Oldcastle BuildingEnvelope™                        | 3185            | Oldcastle BuildingEnvelope™ |
| 3055            | XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.) | 3122            | Oldcastle BuildingEnvelope™                        | 3186            | Oldcastle BuildingEnvelope™ |
|                 |                                                | 3124            | Oldcastle BuildingEnvelope™                        |                 |                             |

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| <b>SGCC No.</b> |                             | <b>SGCC No.</b> |                              | <b>SGCC No.</b> |                                                    |
|-----------------|-----------------------------|-----------------|------------------------------|-----------------|----------------------------------------------------|
| 3187            | Oldcastle BuildingEnvelope™ | 3270            | Oldcastle BuildingEnvelope™  | 3406            | Viwinco, Inc.                                      |
| 3188            | Oldcastle BuildingEnvelope™ | 3271            | Oldcastle BuildingEnvelope™  | 3407            | Trulite Glass & Aluminum Solutions                 |
| 3189            | Oldcastle BuildingEnvelope™ | 3272            | Oldcastle BuildingEnvelope™  | 3408            | Viwinco, Inc.                                      |
| 3190            | Oldcastle BuildingEnvelope™ | 3273            | Oldcastle BuildingEnvelope™  | 3418            | Industrial Tempering Glass                         |
| 3191            | Oldcastle BuildingEnvelope™ | 3274            | Oldcastle BuildingEnvelope™  | 3419            | Industrial Tempering Glass                         |
| 3192            | Oldcastle BuildingEnvelope™ | 3275            | Oldcastle BuildingEnvelope™  | 3420            | Coral Industries Glass Division                    |
| 3193            | Oldcastle BuildingEnvelope™ | 3276            | Oldcastle BuildingEnvelope™  | 3421            | AGC Flat Glass North America                       |
| 3194            | Oldcastle BuildingEnvelope™ | 3277            | Oldcastle BuildingEnvelope™  | 3425            | Oldcastle BuildingEnvelope™                        |
| 3195            | Oldcastle BuildingEnvelope™ | 3278            | Oldcastle BuildingEnvelope™  | 3426            | Oldcastle BuildingEnvelope™                        |
| 3196            | Oldcastle BuildingEnvelope™ | 3279            | Oldcastle BuildingEnvelope™  | 3427            | Oldcastle BuildingEnvelope™                        |
| 3197            | Oldcastle BuildingEnvelope™ | 3280            | Oldcastle BuildingEnvelope™  | 3428            | Oldcastle BuildingEnvelope™                        |
| 3199            | Oldcastle BuildingEnvelope™ | 3281            | Oldcastle BuildingEnvelope™  | 3430            | Trulite Glass and Aluminum Solutions               |
| 3200            | Oldcastle BuildingEnvelope™ | 3283            | Oldcastle BuildingEnvelope™  | 3431            | TianJin Dong Sung Home Building Materials Co. Ltd. |
| 3201            | Oldcastle BuildingEnvelope™ | 3284            | Oldcastle BuildingEnvelope™  | 3439            | Oldcastle BuildingEnvelope™                        |
| 3203            | Oldcastle BuildingEnvelope™ | 3285            | Oldcastle BuildingEnvelope™  | 3440            | Oldcastle BuildingEnvelope™                        |
| 3219            | Oldcastle BuildingEnvelope™ | 3286            | Oldcastle BuildingEnvelope™  | 3441            | Oldcastle BuildingEnvelope™                        |
| 3220            | Oldcastle BuildingEnvelope™ | 3287            | Oldcastle BuildingEnvelope™  | 3442            | Oldcastle BuildingEnvelope™                        |
| 3221            | Oldcastle BuildingEnvelope™ | 3288            | Oldcastle BuildingEnvelope™  | 3443            | Oldcastle BuildingEnvelope™                        |
| 3222            | Oldcastle BuildingEnvelope™ | 3289            | Oldcastle BuildingEnvelope™  | 3444            | Oldcastle BuildingEnvelope™                        |
| 3223            | Oldcastle BuildingEnvelope™ | 3290            | Oldcastle BuildingEnvelope™  | 3445            | Oldcastle BuildingEnvelope™                        |
| 3224            | Oldcastle BuildingEnvelope™ | 3291            | Oldcastle BuildingEnvelope™  | 3446            | Oldcastle BuildingEnvelope™                        |
| 3225            | Oldcastle BuildingEnvelope™ | 3292            | Oldcastle BuildingEnvelope™  | 3447            | Oldcastle BuildingEnvelope™                        |
| 3226            | Oldcastle BuildingEnvelope™ | 3293            | Oldcastle BuildingEnvelope™  | 3448            | Oldcastle BuildingEnvelope™                        |
| 3227            | Oldcastle BuildingEnvelope™ | 3294            | Oldcastle BuildingEnvelope™  | 3453            | Glass Design of Miami, Inc.                        |
| 3228            | Oldcastle BuildingEnvelope™ | 3295            | Oldcastle BuildingEnvelope™  | 3454            | Glass Design of Miami, Inc.                        |
| 3229            | Oldcastle BuildingEnvelope™ | 3296            | Oldcastle BuildingEnvelope™  | 3455            | Cardinal TG                                        |
| 3230            | Oldcastle BuildingEnvelope™ | 3297            | Oldcastle BuildingEnvelope™  | 3456            | Cardinal TG                                        |
| 3233            | Oldcastle BuildingEnvelope™ | 3310            | Oldcastle BuildingEnvelope™  | 3458            | Cardinal TG                                        |
| 3234            | Oldcastle BuildingEnvelope™ | 3311            | Oldcastle BuildingEnvelope™  | 3459            | Cardinal TG                                        |
| 3235            | Oldcastle BuildingEnvelope™ | 3312            | Oldcastle BuildingEnvelope™  | 3460            | TianJin Dong Sung Home Building Materials Co. Ltd. |
| 3236            | Oldcastle BuildingEnvelope™ | 3313            | Oldcastle BuildingEnvelope™  | 3461            | Trulite Glass & Aluminum Solutions                 |
| 3237            | Oldcastle BuildingEnvelope™ | 3314            | Oldcastle BuildingEnvelope™  | 3462            | Oldcastle BuildingEnvelope™                        |
| 3238            | Oldcastle BuildingEnvelope™ | 3315            | Oldcastle BuildingEnvelope™  | 3464            | Contractors Wardrobe                               |
| 3239            | Oldcastle BuildingEnvelope™ | 3317            | Oldcastle BuildingEnvelope™  | 3465            | Contractors Wardrobe                               |
| 3240            | Oldcastle BuildingEnvelope™ | 3318            | Oldcastle BuildingEnvelope™  | 3466            | Contractors Wardrobe                               |
| 3242            | Oldcastle BuildingEnvelope™ | 3319            | Oldcastle BuildingEnvelope™  | 3467            | Contractors Wardrobe                               |
| 3243            | Oldcastle BuildingEnvelope™ | 3320            | Oldcastle BuildingEnvelope™  | 3468            | Contractors Wardrobe                               |
| 3244            | Oldcastle BuildingEnvelope™ | 3321            | Oldcastle BuildingEnvelope™  | 3469            | Contractors Wardrobe                               |
| 3245            | Oldcastle BuildingEnvelope™ | 3326            | AGC Flat Glass North America | 3470            | Contractors Wardrobe                               |
| 3249            | Anthony International       | 3327            | AGC Flat Glass North America | 3472            | Contractors Wardrobe                               |
| 3250            | Oldcastle BuildingEnvelope™ | 3329            | Oldcastle BuildingEnvelope™  | 3473            | Contractors Wardrobe                               |
| 3251            | Oldcastle BuildingEnvelope™ | 3330            | Oldcastle BuildingEnvelope™  | 3474            | Contractors Wardrobe                               |
| 3252            | Oldcastle BuildingEnvelope™ | 3331            | Oldcastle BuildingEnvelope™  | 3475            | Contractors Wardrobe                               |
| 3253            | Oldcastle BuildingEnvelope™ | 3332            | Oldcastle BuildingEnvelope™  | 3476            | Contractors Wardrobe                               |
| 3255            | Oldcastle BuildingEnvelope™ | 3333            | Oldcastle BuildingEnvelope™  | 3477            | Contractors Wardrobe                               |
| 3256            | Oldcastle BuildingEnvelope™ | 3334            | Oldcastle BuildingEnvelope™  | 3479            | Saint Gobain Mexico, S.A. de C.V.                  |
| 3257            | Oldcastle BuildingEnvelope™ | 3335            | Oldcastle BuildingEnvelope™  | 3482            | PGT Industries                                     |
| 3258            | Oldcastle BuildingEnvelope™ | 3336            | Oldcastle BuildingEnvelope™  | 3485            | Quaker Window Products, Inc.                       |
| 3259            | Oldcastle BuildingEnvelope™ | 3337            | Oldcastle BuildingEnvelope™  | 3486            | Quaker Window Products, Inc.                       |
| 3262            | Oldcastle BuildingEnvelope™ | 3338            | Oldcastle BuildingEnvelope™  | 3487            | Downey Glass Industries, LLC                       |
| 3263            | Oldcastle BuildingEnvelope™ | 3339            | Oldcastle BuildingEnvelope™  | 3489            | XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)     |
| 3264            | Oldcastle BuildingEnvelope™ | 3340            | Oldcastle BuildingEnvelope™  | 3492            | Oldcastle BuildingEnvelope™                        |
| 3265            | Oldcastle BuildingEnvelope™ | 3360            | Anlin Industries             | 3495            | Trulite Glass and Aluminum Solutions               |
| 3266            | Oldcastle BuildingEnvelope™ | 3386            | Industrial Tempering Glass   | 3496            | Oldcastle BuildingEnvelope™                        |
| 3267            | Oldcastle BuildingEnvelope™ | 3387            | Industrial Tempering Glass   | 3497            | Oldcastle BuildingEnvelope™                        |
| 3268            | Oldcastle BuildingEnvelope™ | 3392            | Oldcastle BuildingEnvelope™  |                 |                                                    |
| 3269            | Oldcastle BuildingEnvelope™ | 3405            | Viwinco, Inc.                |                 |                                                    |

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| <b>SGCC No.</b> |                                      | <b>SGCC No.</b> |                                                   | <b>SGCC No.</b> |                                      |
|-----------------|--------------------------------------|-----------------|---------------------------------------------------|-----------------|--------------------------------------|
| 3498            | Oldcastle BuildingEnvelope™          | 3619            | Cardinal IG                                       | 3747            | Ready Glass & Mirror, Inc.           |
| 3499            | Oldcastle BuildingEnvelope™          | 3631            | Intigral                                          | 3748            | Ready Glass & Mirror, Inc.           |
| 3500            | Oldcastle BuildingEnvelope™          | 3635            | Consolidated Glass Corp.                          | 3749            | Berkowitz, J.E.                      |
| 3501            | Oldcastle BuildingEnvelope™          | 3636            | SCHOTT Gemtron (Canada) Corporation               | 3750            | Berkowitz, J.E.                      |
| 3502            | Oldcastle BuildingEnvelope™          | 3637            | SCHOTT Gemtron (Canada) Corporation               | 3768            | AGC Flat Glass North America         |
| 3503            | Oldcastle BuildingEnvelope™          |                 |                                                   | 3785            | AGC Flat Glass North America         |
| 3505            | Cardinal IG                          | 3645            | AGC Flat Glass North America                      | 3786            | AGC Flat Glass North America         |
| 3506            | Cardinal IG                          | 3646            | AGC Flat Glass North America                      | 3787            | Tai Shan City Da Heng Art Glass Ltd. |
| 3507            | Cardinal IG                          | 3647            | AGC Flat Glass North America                      | 3788            | Tai Shan City Da Heng Art Glass Ltd. |
| 3508            | Cardinal IG                          | 3648            | AGC Flat Glass North America                      | 3789            | Tai Shan City Da Heng Art Glass Ltd. |
| 3509            | Cardinal IG                          | 3649            | Northwest Glass, Inc.                             | 3793            | Oldcastle BuildingEnvelope™          |
| 3510            | Cardinal IG                          | 3650            | Northwest Glass, Inc.                             | 3796            | Oldcastle BuildingEnvelope™          |
| 3532            | Kohler Company                       | 3651            | Northwest Glass, Inc.                             | 3805            | Quality Glass & Mirror, Inc.         |
| 3536            | Trulite Glass and Aluminum Solutions | 3652            | Northwest Glass, Inc.                             | 3806            | Commercial Insulating Glass Co.      |
| 3538            | PFG Glass                            | 3653            | Northwest Glass, Inc.                             | 3807            | Commercial Insulating Glass Co.      |
| 3539            | PFG Glass                            | 3655            | Northwest Glass, Inc.                             | 3808            | Commercial Insulating Glass Co.      |
| 3540            | PFG Glass                            | 3656            | All Team Glass & Mirror, Ltd.                     | 3810            | Basco Engineered Products            |
| 3541            | PFG Glass                            | 3659            | SCHOTT Gemtron (Canada) Corporation               | 3811            | Basco Engineered Products            |
| 3542            | PFG Glass                            |                 |                                                   | 3812            | Basco Engineered Products            |
| 3543            | PFG Glass                            | 3661            | Galaxy Glass & Stone                              | 3814            | AGC Flat Glass North America         |
| 3544            | PFG Glass                            | 3663            | AGC Flat Glass North America                      | 3815            | AGC Flat Glass North America         |
| 3547            | PFG Glass                            | 3671            | Oldcastle BuildingEnvelope™                       | 3817            | Coral Industries Glass Division      |
| 3548            | PFG Glass                            | 3672            | Guardian Industries Corp.                         | 3818            | AGC Flat Glass North America         |
| 3549            | PFG Glass                            | 3673            | Guardian Industries Corp.                         | 3819            | AGC Flat Glass North America         |
| 3553            | AGC Flat Glass North America         | 3677            | AGC Flat Glass North America                      | 3820            | AGC Flat Glass North America         |
| 3554            | Trulite Glass and Aluminum Solutions | 3689            | Viracon Inc.                                      | 3822            | Flat Glass Distributors              |
| 3555            | Cardinal CG                          | 3690            | QinHuangDao Tianrui Tempered Technology Glass Co. | 3823            | Flat Glass Distributors              |
| 3556            | Al Abbar Architectural Glass         | 3698            | AGC Flat Glass North America                      | 3824            | Flat Glass Distributors              |
| 3557            | Al Abbar Architectural Glass         | 3701            | Dallas Flat Glass                                 | 3825            | Flat Glass Distributors              |
| 3558            | Al Abbar Architectural Glass         | 3705            | AGC Flat Glass North America                      | 3826            | Flat Glass Distributors              |
| 3560            | Al Abbar Architectural Glass         | 3706            | AGC Flat Glass North America                      | 3828            | Flat Glass Distributors              |
| 3561            | Oldcastle BuildingEnvelope™          | 3707            | AGC Flat Glass North America                      | 3829            | Flat Glass Distributors              |
| 3567            | AVIC Sanxin Co. Ltd.                 | 3708            | AGC Flat Glass North America                      | 3830            | Flat Glass Distributors              |
| 3568            | AVIC Sanxin Co. Ltd.                 | 3709            | AGC Flat Glass North America                      | 3839            | AGC Flat Glass North America         |
| 3569            | AVIC Sanxin Co. Ltd.                 | 3710            | AGC Flat Glass North America                      | 3841            | Glenny Glass Co.                     |
| 3570            | AVIC Sanxin Co. Ltd.                 | 3711            | PFG Glass                                         | 3843            | Glenny Glass Co.                     |
| 3571            | AVIC Sanxin Co. Ltd.                 | 3714            | Insulite Glass Co., Inc.                          | 3844            | Glenny Glass Co.                     |
| 3572            | AVIC Sanxin Co. Ltd.                 | 3715            | Insulite Glass Co., Inc.                          | 3845            | Glenny Glass Co.                     |
| 3573            | AVIC Sanxin Co. Ltd.                 | 3716            | Insulite Glass Co., Inc.                          | 3846            | Glenny Glass Co.                     |
| 3577            | PPG Inds., Inc.                      | 3717            | Insulite Glass Co., Inc.                          | 3857            | GGI Glass Distributors Corp.         |
| 3578            | PPG Inds., Inc.                      | 3718            | Insulite Glass Co., Inc.                          | 3858            | GGI Glass Distributors Corp.         |
| 3579            | Cardinal CG                          | 3720            | Insulite Glass Co., Inc.                          | 3859            | Insulated Glass of America, Inc.     |
| 3580            | Cardinal CG                          | 3723            | Insulite Glass Co., Inc.                          | 3860            | Insulated Glass of America, Inc.     |
| 3581            | Cardinal CG                          | 3729            | Oldcastle BuildingEnvelope™                       | 3861            | Insulated Glass of America, Inc.     |
| 3583            | Arlene Stained Glass & Door          | 3730            | Qinhuangdao Kunping Safety Glass Co. Ltd.         | 3862            | Insulated Glass of America, Inc.     |
| 3584            | Arlene Stained Glass & Door          |                 |                                                   | 3863            | Insulated Glass of America, Inc.     |
| 3585            | Arlene Stained Glass & Door          | 3736            | Yao Xiang Glass Product Co. Ltd.                  | 3864            | Insulated Glass of America, Inc.     |
| 3593            | Oldcastle BuildingEnvelope™          | 3737            | Yao Xiang Glass Product Co. Ltd.                  | 3865            | Denver Glass Interiors, Inc.         |
| 3596            | Oldcastle BuildingEnvelope™          | 3738            | Yao Xiang Glass Product Co. Ltd.                  | 3866            | Denver Glass Interiors, Inc.         |
| 3597            | Oldcastle BuildingEnvelope™          | 3739            | Yao Xiang Glass Product Co. Ltd.                  | 3867            | Denver Glass Interiors, Inc.         |
| 3598            | Oldcastle BuildingEnvelope™          | 3740            | Yao Xiang Glass Product Co. Ltd.                  | 3868            | Denver Glass Interiors, Inc.         |
| 3599            | Cardinal CG                          | 3741            | Yao Xiang Glass Product Co. Ltd.                  | 3871            | Cardinal Tempering                   |
| 3601            | Cardinal CG                          | 3742            | Yao Xiang Glass Product Co. Ltd.                  | 3872            | Cardinal Tempering                   |
| 3603            | Trulite Glass and Aluminum Solutions | 3743            | Yao Xiang Glass Product Co. Ltd.                  | 3873            | Cardinal Tempering                   |
| 3604            | Guardian Webster, Inc.               | 3745            | Ready Glass & Mirror, Inc.                        | 3874            | Cardinal Tempering                   |
| 3607            | Glass Design of Miami, Inc.          | 3746            | Ready Glass & Mirror, Inc.                        | 3875            | Cardinal Tempering                   |
| 3608            | SAAND Rexdale                        |                 |                                                   | 3880            | PGT Industries                       |

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| <b>SGCC No.</b> |                                            | <b>SGCC No.</b> |                                           | <b>SGCC No.</b> |                                                    |
|-----------------|--------------------------------------------|-----------------|-------------------------------------------|-----------------|----------------------------------------------------|
| 3881            | PGT Industries                             | 3950            | United Plate Glass Company of Charlotte   | 4025            | Tianjin CSG Architectural Glass Co., Ltd.          |
| 3886            | Taiwan Glass Industry Corporation          | 3951            | United Plate Glass Company of Charlotte   | 4026            | Tianjin CSG Architectural Glass Co., Ltd.          |
| 3887            | Taiwan Glass Industry Corporation          | 3952            | United Plate Glass Company of Charlotte   | 4027            | Tianjin CSG Architectural Glass Co., Ltd.          |
| 3888            | Taiwan Glass Industry Corporation          | 3954            | United Plate Glass Company of Charlotte   | 4028            | Tianjin CSG Architectural Glass Co., Ltd.          |
| 3889            | Taiwan Glass Industry Corporation          | 3955            | United Plate Glass Company of Charlotte   | 4030            | Tianjin CSG Architectural Glass Co., Ltd.          |
| 3890            | Taiwan Glass Industry Corporation          | 3957            | JYC Glass Co. Ltd.                        | 4031            | General Glass                                      |
| 3891            | Taiwan Glass Industry Corporation          | 3958            | JYC Glass Co. Ltd.                        | 4032            | General Glass                                      |
| 3892            | Taiwan Glass Industry Corporation          | 3959            | JYC Glass Co. Ltd.                        | 4033            | General Glass                                      |
| 3893            | Taiwan Glass Industry Corporation          | 3960            | JYC Glass Co. Ltd.                        | 4034            | General Glass                                      |
| 3905            | PT Abebersa Pratama                        | 3961            | JYC Glass Co. Ltd.                        | 4035            | TianJin Dong Sung Home Building Materials Co. Ltd. |
| 3906            | PT Abebersa Pratama                        | 3962            | JYC Glass Co. Ltd.                        | 4041            | Vidrios Marte SA de CV                             |
| 3907            | Oldcastle BuildingEnvelope™                | 3963            | JYC Glass Co. Ltd.                        | 4042            | Vidrios Marte SA de CV                             |
| 3912            | Dillmeier Enterprise, Inc.                 | 3970            | GGI Glass Distributors Corp.              | 4046            | AGC Flat Glass North America                       |
| 3913            | Dillmeier Enterprise, Inc.                 | 3971            | GGI Glass Distributors Corp.              | 4047            | Cardinal CG                                        |
| 3914            | Dillmeier Enterprise, Inc.                 | 3972            | GGI Glass Distributors Corp.              | 4048            | WSD Glass, Inc.                                    |
| 3915            | Dillmeier Enterprise, Inc.                 | 3973            | GGI Glass Distributors Corp.              | 4049            | WSD Glass, Inc.                                    |
| 3916            | Dillmeier Enterprise, Inc.                 | 3974            | GGI Glass Distributors Corp.              | 4050            | WSD Glass, Inc.                                    |
| 3917            | Dillmeier Enterprise, Inc.                 | 3976            | Al Abbar Architectural Glass              | 4051            | WSD Glass, Inc.                                    |
| 3918            | Pennsylvania Insulating Glass              | 3977            | Al Abbar Architectural Glass              | 4052            | WSD Glass, Inc.                                    |
| 3919            | Pennsylvania Insulating Glass              | 3978            | Southwest Glass Products Inc.             | 4054            | Oldcastle BuildingEnvelope™                        |
| 3925            | Trulite Glass and Aluminum Solutions       | 3979            | Southwest Glass Products Inc.             | 4055            | Deqing Sanxing Plastic Chemical Co. Ltd.           |
| 3926            | Trulite Glass and Aluminum Solutions       | 3980            | Southwest Glass Products Inc.             | 4056            | Deqing Sanxing Plastic Chemical Co. Ltd.           |
| 3927            | Trulite Glass and Aluminum Solutions       | 3981            | Southwest Glass Products Inc.             | 4057            | Deqing Sanxing Plastic Chemical Co. Ltd.           |
| 3928            | Trulite Glass and Aluminum Solutions       | 3984            | Vidrios El Castillo SC de RL de CV        | 4061            | Troy Systems LLC                                   |
| 3930            | Trulite Glass and Aluminum Solutions       | 3985            | Vidrios El Castillo SC de RL de CV        | 4062            | Troy Systems LLC                                   |
| 3931            | Trulite Glass and Aluminum Solutions       | 3986            | Vidrios El Castillo SC de RL de CV        | 4063            | Troy Systems LLC                                   |
| 3932            | Dongguan CSG Architectural Glass Co., Ltd. | 3987            | Vidrios El Castillo SC de RL de CV        | 4067            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE |
| 3933            | Dongguan CSG Architectural Glass Co., Ltd. | 3988            | Vidrios El Castillo SC de RL de CV        | 4068            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE |
| 3934            | Dongguan CSG Architectural Glass Co., Ltd. | 3991            | JYC Glass Co. Ltd.                        | 4069            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE |
| 3935            | Dongguan CSG Architectural Glass Co., Ltd. | 3992            | JYC Glass Co. Ltd.                        | 4070            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE |
| 3936            | Dongguan CSG Architectural Glass Co., Ltd. | 3993            | JYC Glass Co. Ltd.                        | 4071            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE |
| 3937            | Dongguan CSG Architectural Glass Co., Ltd. | 3994            | JYC Glass Co. Ltd.                        | 4072            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE |
| 3938            | Dongguan CSG Architectural Glass Co., Ltd. | 3999            | Oldcastle BuildingEnvelope™               | 4073            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE |
| 3939            | Dongguan CSG Architectural Glass Co., Ltd. | 4001            | Oldcastle BuildingEnvelope™               | 4074            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE |
| 3941            | Guangdong Golden Glass Technologies        | 4002            | Custom Glass Products Inc.                | 4075            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE  |
| 3942            | Guangdong Golden Glass Technologies        | 4003            | Tecnolgass S.A.                           | 4076            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE  |
| 3943            | Guangdong Golden Glass Technologies        | 4004            | Tri-Star Glass                            | 4077            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE  |
| 3944            | Guangdong Golden Glass Technologies        | 4005            | Tri-Star Glass                            | 4078            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE  |
| 3945            | Guangdong Golden Glass Technologies        | 4006            | Tri-Star Glass                            | 4079            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE  |
| 3946            | Guangdong Golden Glass Technologies        | 4007            | Tri-Star Glass                            |                 |                                                    |
| 3947            | Guangdong Golden Glass Technologies        | 4008            | Tri-Star Glass                            |                 |                                                    |
| 3948            | United Plate Glass Company of Charlotte    | 4009            | Tri-Star Glass                            |                 |                                                    |
| 3949            | United Plate Glass Company of Charlotte    | 4010            | Tri-Star Glass                            |                 |                                                    |
|                 |                                            | 4011            | Tri-Star Glass                            |                 |                                                    |
|                 |                                            | 4012            | Kohler Company                            |                 |                                                    |
|                 |                                            | 4021            | Tianjin CSG Architectural Glass Co., Ltd. |                 |                                                    |
|                 |                                            | 4022            | Tianjin CSG Architectural Glass Co., Ltd. |                 |                                                    |
|                 |                                            | 4023            | Tianjin CSG Architectural Glass Co., Ltd. |                 |                                                    |
|                 |                                            | 4024            | Tianjin CSG Architectural Glass Co., Ltd. |                 |                                                    |

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| <b>SGCC No.</b> |                                                   | <b>SGCC No.</b> |                                                | <b>SGCC No.</b> |                                                  |
|-----------------|---------------------------------------------------|-----------------|------------------------------------------------|-----------------|--------------------------------------------------|
| 4080            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE | 4159            | AGC Flat Glass North America                   | 4229            | RF Supply, Inc.                                  |
| 4081            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE | 4160            | AGC Flat Glass North America                   | 4230            | RF Supply, Inc.                                  |
| 4083            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE | 4161            | JYC Glass Co. Ltd.                             | 4232            | AGC Flat Glass North America                     |
| 4084            | Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE | 4162            | JYC Glass Co. Ltd.                             | 4233            | Trulite Glass and Aluminum Solutions             |
| 4089            | Trulite Glass and Aluminum Solutions              | 4163            | JYC Glass Co. Ltd.                             | 4235            | Changshu Xingfu Glass Building Material Co., LTD |
| 4090            | Trulite Glass and Aluminum Solutions              | 4165            | JYC Glass Co. Ltd.                             | 4237            | Changshu Xingfu Glass Building Material Co., LTD |
| 4091            | Cardinal IG                                       | 4166            | JYC Glass Co. Ltd.                             | 4240            | Industrial Tempering Glass                       |
| 4093            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.      | 4167            | Dongguan CSG Architectural Glass Co., Ltd.     | 4245            | Oldcastle BuildingEnvelope™                      |
| 4094            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.      | 4169            | W. A. Wilson Inc.                              | 4246            | Vetzeria Valentini S.R.L.                        |
| 4095            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.      | 4170            | W. A. Wilson Inc.                              | 4247            | Oldcastle BuildingEnvelope™                      |
| 4101            | Denver Glass Interiors, Inc.                      | 4171            | W. A. Wilson Inc.                              | 4248            | GGI Glass Distributors Corp.                     |
| 4103            | Cardinal CG                                       | 4172            | W. A. Wilson Inc.                              | 4249            | Viracon Inc.                                     |
| 4104            | Cardinal CG                                       | 4173            | W. A. Wilson Inc.                              | 4250            | Viracon Inc.                                     |
| 4105            | Cardinal CG                                       | 4174            | W. A. Wilson Inc.                              | 4254            | Mercer Glass Fab LLC                             |
| 4106            | Tianjin CSG Architectural Glass Co., Ltd.         | 4175            | W. A. Wilson Inc.                              | 4255            | Mercer Glass Fab LLC                             |
| 4107            | Tianjin CSG Architectural Glass Co., Ltd.         | 4176            | W. A. Wilson Inc.                              | 4256            | Mercer Glass Fab LLC                             |
| 4108            | Tianjin CSG Architectural Glass Co., Ltd.         | 4179            | XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.) | 4257            | Mercer Glass Fab LLC                             |
| 4120            | Cardinal LG                                       | 4180            | Oldcastle BuildingEnvelope™                    | 4258            | Mercer Glass Fab LLC                             |
| 4121            | EFCO Corporation                                  | 4181            | Oldcastle BuildingEnvelope™                    | 4260            | Changshu Lier Building Materials Co. Ltd.        |
| 4123            | Dongguan Dongfa Glass Product Co., Ltd            | 4182            | Trulite Glass and Aluminum Solutions           | 4261            | Changshu Lier Building Materials Co. Ltd.        |
| 4124            | Dongguan Dongfa Glass Product Co., Ltd            | 4183            | Trulite Glass and Aluminum Solutions           | 4265            | AGC Flat Glass North America                     |
| 4125            | Dongguan Dongfa Glass Product Co., Ltd            | 4184            | Trulite Glass and Aluminum Solutions           | 4266            | AGC Flat Glass North America                     |
| 4126            | Dongguan Dongfa Glass Product Co., Ltd            | 4185            | Trulite Glass and Aluminum Solutions           | 4267            | AGC Flat Glass North America                     |
| 4132            | Dongguan Dongfa Glass Product Co., Ltd            | 4186            | Trulite Glass and Aluminum Solutions           | 4268            | AGC Flat Glass North America                     |
| 4133            | Oldcastle BuildingEnvelope™                       | 4187            | Trulite Glass and Aluminum Solutions           | 4269            | AGC Flat Glass North America                     |
| 4134            | Trulite Glass and Aluminum Solutions              | 4188            | Trulite Glass and Aluminum Solutions           | 4270            | AGC Flat Glass North America                     |
| 4135            | Trulite Glass and Aluminum Solutions              | 4189            | Trulite Glass and Aluminum Solutions           | 4271            | AGC Flat Glass North America                     |
| 4136            | Ready Glass & Mirror, Inc.                        | 4197            | United Plate Glass Company of Charlotte        | 4272            | AGC Flat Glass North America                     |
| 4137            | Cardinal CG                                       | 4198            | Cuda Glass & Metals                            | 4274            | Vitraform, Inc.                                  |
| 4139            | Basco Engineered Products                         | 4199            | Cuda Glass & Metals                            | 4277            | AGC Flat Glass North America                     |
| 4141            | AGC Flat Glass North America                      | 4200            | Cuda Glass & Metals                            | 4278            | Southwest Glass Products Inc.                    |
| 4142            | AGC Flat Glass North America                      | 4201            | Cuda Glass & Metals                            | 4279            | Beijing Northglass Safety Glass Co., Ltd         |
| 4144            | AGC Flat Glass North America                      | 4202            | Cuda Glass & Metals                            | 4280            | M/M Tempering Inc.                               |
| 4145            | AGC Flat Glass North America                      | 4203            | Cuda Glass & Metals                            | 4281            | M/M Tempering Inc.                               |
| 4146            | Deqing Sanxing Plastic Chemical Co. Ltd.          | 4204            | Cuda Glass & Metals                            | 4282            | M/M Tempering Inc.                               |
| 4147            | Deqing Sanxing Plastic Chemical Co. Ltd.          | 4206            | SIGCO, Inc.                                    | 4285            | Contour Industries, Inc.                         |
| 4148            | Nashville Tempered Glass LLC                      | 4207            | AGC Flat Glass North America                   | 4290            | Thermo BSL                                       |
| 4152            | AGC Flat Glass North America                      | 4209            | AGC Flat Glass North America                   | 4291            | Thermo BSL                                       |
| 4153            | AGC Flat Glass North America                      | 4210            | Trulite Glass and Aluminum Solutions           | 4292            | Thermo BSL                                       |
| 4154            | EFCO Corporation                                  | 4211            | Trulite Glass and Aluminum Solutions           | 4293            | Thermo BSL                                       |
| 4156            | Qinhuangdao Detai Tempered Glass Co., Ltd.        | 4212            | Trulite Glass and Aluminum Solutions           | 4299            | Mega Tempering                                   |
| 4158            | AGC Flat Glass North America                      | 4213            | Trulite Glass and Aluminum Solutions           | 4300            | Mega Tempering                                   |
|                 |                                                   | 4214            | Trulite Glass and Aluminum Solutions           | 4301            | Mega Tempering                                   |
|                 |                                                   | 4215            | Trulite Glass and Aluminum Solutions           | 4302            | Troy Systems LLC                                 |
|                 |                                                   | 4216            | Trulite Glass and Aluminum Solutions           | 4303            | Jiangmen SYP Engineering Glass Co., Ltd          |
|                 |                                                   | 4217            | Trulite Glass and Aluminum Solutions           | 4304            | Jiangmen SYP Engineering Glass Co., Ltd          |
|                 |                                                   | 4218            | Trulite Glass and Aluminum Solutions           | 4305            | Jiangmen SYP Engineering Glass Co., Ltd          |
|                 |                                                   | 4219            | Trulite Glass and Aluminum Solutions           | 4306            | Jiangmen SYP Engineering Glass Co., Ltd          |
|                 |                                                   | 4220            | Trulite Glass and Aluminum Solutions           | 4307            | Jiangmen SYP Engineering Glass Co., Ltd          |
|                 |                                                   | 4221            | Trulite Glass and Aluminum Solutions           |                 |                                                  |
|                 |                                                   | 4222            | RF Supply, Inc.                                |                 |                                                  |
|                 |                                                   | 4224            | RF Supply, Inc.                                |                 |                                                  |
|                 |                                                   | 4225            | RF Supply, Inc.                                |                 |                                                  |
|                 |                                                   | 4226            | RF Supply, Inc.                                |                 |                                                  |
|                 |                                                   | 4227            | RF Supply, Inc.                                |                 |                                                  |

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|-----------------|----------------------------------------------------|-----------------|--------------------------------------|-----------------|--------------------------------------|
| 4308            | Jiangmen SYP Engineering Glass Co., Ltd            | 4382            | Wholesale Glass Dist.                | 4474            | Insulite Glass Co., Inc.             |
| 4309            | Jiangmen SYP Engineering Glass Co., Ltd            | 4384            | Oldcastle BuildingEnvelope™          | 4475            | Oldcastle BuildingEnvelope™          |
| 4310            | Jiangmen SYP Engineering Glass Co., Ltd            | 4386            | Oldcastle BuildingEnvelope™          | 4476            | Oldcastle BuildingEnvelope™          |
| 4312            | Jiangmen SYP Engineering Glass Co., Ltd            | 4387            | Oldcastle BuildingEnvelope™          | 4477            | Oldcastle BuildingEnvelope™          |
| 4316            | Cardinal IG                                        | 4388            | Engineered Glass Products, L.L.C.    | 4478            | AGC Flat Glass North America         |
| 4317            | Cardinal IG                                        | 4391            | Oldcastle BuildingEnvelope™          | 4479            | AGC Flat Glass North America         |
| 4318            | Maryland Glass & Mirror                            | 4392            | Oldcastle BuildingEnvelope™          | 4495            | Alyusuf Thermo Glass W.L.L.          |
| 4319            | Maryland Glass & Mirror                            | 4393            | Oldcastle BuildingEnvelope™          | 4496            | Alyusuf Thermo Glass W.L.L.          |
| 4320            | Maryland Glass & Mirror                            | 4394            | TRACO (Three Rivers Alum)            | 4497            | Alyusuf Thermo Glass W.L.L.          |
| 4321            | Maryland Glass & Mirror                            | 4395            | TRACO (Three Rivers Alum)            | 4498            | Alyusuf Thermo Glass W.L.L.          |
| 4322            | Maryland Glass & Mirror                            | 4396            | Oldcastle BuildingEnvelope™          | 4499            | Diamond Sea Glaze                    |
| 4326            | SIGCO, Inc.                                        | 4397            | Oldcastle BuildingEnvelope™          | 4500            | Diamond Sea Glaze                    |
| 4327            | SIGCO, Inc.                                        | 4398            | Oldcastle BuildingEnvelope™          | 4501            | Diamond Sea Glaze                    |
| 4328            | Coastal Glass Distributors                         | 4399            | Oldcastle BuildingEnvelope™          | 4502            | Diamond Sea Glaze                    |
| 4329            | Coastal Glass Distributors                         | 4400            | Oldcastle BuildingEnvelope™          | 4503            | Diamond Sea Glaze                    |
| 4330            | Coastal Glass Distributors                         | 4401            | Oldcastle BuildingEnvelope™          | 4504            | Diamond Sea Glaze                    |
| 4331            | Coastal Glass Distributors                         | 4402            | Oldcastle BuildingEnvelope™          | 4505            | Diamond Sea Glaze                    |
| 4332            | Coastal Glass Distributors                         | 4410            | Tri-Star Glass                       | 4506            | Diamond Sea Glaze                    |
| 4333            | Coastal Glass Distributors                         | 4411            | Tri-Star Glass                       | 4507            | Denver Glass Interiors, Inc.         |
| 4334            | Coastal Glass Distributors                         | 4413            | Glass Dynamics, Inc.                 | 4508            | Denver Glass Interiors, Inc.         |
| 4335            | Coastal Glass Distributors                         | 4414            | Glass Dynamics, Inc.                 | 4509            | Techni-Glass, Inc.                   |
| 4336            | Coastal Glass Distributors                         | 4419            | Garibaldi Glass Ind. Inc.            | 4510            | Techni-Glass, Inc.                   |
| 4337            | Coastal Glass Distributors                         | 4420            | Garibaldi Glass Ind. Inc.            | 4512            | Perficom, S.A. de C.V.               |
| 4338            | Coastal Glass Distributors                         | 4421            | Garibaldi Glass Ind. Inc.            | 4517            | Blue Star Glass Inc.                 |
| 4339            | Coastal Glass Distributors                         | 4422            | Garibaldi Glass Ind. Inc.            | 4518            | Blue Star Glass Inc.                 |
| 4340            | Oldcastle BuildingEnvelope™                        | 4423            | Oldcastle BuildingEnvelope™          | 4519            | Blue Star Glass Inc.                 |
| 4342            | AGC Flat Glass North America                       | 4424            | Oldcastle BuildingEnvelope™          | 4520            | Blue Star Glass Inc.                 |
| 4343            | Cardinal CG                                        | 4425            | Fairis C.A.                          | 4521            | Blue Star Glass Inc.                 |
| 4344            | Cardinal CG                                        | 4426            | Fairis C.A.                          | 4522            | Trulite Glass and Aluminum Solutions |
| 4345            | Cardinal CG                                        | 4427            | Fairis C.A.                          | 4523            | Insulpane of Connecticut Ind.        |
| 4346            | Oldcastle BuildingEnvelope™                        | 4428            | Fairis C.A.                          | 4524            | Multiver                             |
| 4347            | Cardinal CG                                        | 4429            | Fairis C.A.                          | 4526            | Oldcastle BuildingEnvelope™          |
| 4350            | Cardinal LG                                        | 4430            | Fairis C.A.                          | 4527            | Oldcastle BuildingEnvelope™          |
| 4351            | Cardinal LG                                        | 4431            | Hartung Glass Industries Lami        | 4528            | Oldcastle BuildingEnvelope™          |
| 4353            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB | 4432            | Oldcastle BuildingEnvelope™          | 4529            | Oldcastle BuildingEnvelope™          |
| 4354            | Viracon Inc.                                       | 4433            | Oldcastle BuildingEnvelope™          | 4530            | Mercer Glass Fab LLC                 |
| 4355            | All Team Glass & Mirror, Ltd.                      | 4435            | Oldcastle BuildingEnvelope™          | 4531            | Oldcastle BuildingEnvelope™          |
| 4356            | Triple Seal Ltd.                                   | 4436            | Oldcastle BuildingEnvelope™          | 4533            | Oldcastle BuildingEnvelope™          |
| 4357            | Triple Seal Ltd.                                   | 4437            | Trulite Glass and Aluminum Solutions | 4535            | Guangdong Golden Glass Technologies  |
| 4358            | Triple Seal Ltd.                                   | 4443            | Oldcastle BuildingEnvelope™          | 4537            | SAAND Rexdale                        |
| 4360            | Guardian Industries Corp.                          | 4444            | Oldcastle BuildingEnvelope™          | 4538            | SAAND Rexdale                        |
| 4361            | Cardinal IG                                        | 4446            | Oldcastle BuildingEnvelope™          | 4539            | SAAND Rexdale                        |
| 4362            | Cardinal IG                                        | 4448            | Oldcastle BuildingEnvelope™          | 4540            | SAAND Rexdale                        |
| 4363            | Changshu Zhongxin Bldg. Mat. Co.                   | 4449            | Oldcastle BuildingEnvelope™          | 4541            | Glasser SA de CV                     |
| 4371            | Trulite Glass and Aluminum Solutions               | 4452            | Trulite Glass and Aluminum Solutions | 4543            | SIGCO, Inc.                          |
| 4372            | Trulite Glass and Aluminum Solutions               | 4453            | Trulite Glass and Aluminum Solutions | 4546            | Cleer Vision Tempered Glass          |
| 4373            | Trulite Glass and Aluminum Solutions               | 4454            | Oldcastle BuildingEnvelope™          | 4547            | Cleer Vision Tempered Glass          |
| 4374            | Trulite Glass and Aluminum Solutions               | 4455            | Oldcastle BuildingEnvelope™          | 4554            | Trulite Glass and Aluminum Solutions |
| 4375            | Glass Dynamics, Inc.                               | 4456            | Oldcastle BuildingEnvelope™          | 4555            | Trulite Glass and Aluminum Solutions |
| 4376            | Glass Dynamics, Inc.                               | 4457            | Oldcastle BuildingEnvelope™          | 4557            | Guardian Industries Corp.            |
| 4379            | Wholesale Glass Dist.                              | 4458            | Oldcastle BuildingEnvelope™          | 4558            | Oldcastle BuildingEnvelope™          |
| 4380            | Wholesale Glass Dist.                              | 4460            | Oldcastle BuildingEnvelope™          | 4561            | Oldcastle BuildingEnvelope™          |
| 4381            | Wholesale Glass Dist.                              | 4461            | Oldcastle BuildingEnvelope™          | 4563            | Oldcastle BuildingEnvelope™          |
|                 |                                                    | 4468            | Thermoseal Glass Corp.               | 4566            | Dallas Flat Glass                    |
|                 |                                                    | 4470            | Thermoseal Glass Corp.               | 4567            | Dallas Flat Glass                    |
|                 |                                                    | 4471            | Thermoseal Glass Corp.               | 4571            | Architectural Glass Products, LLC    |
|                 |                                                    | 4473            | Insulite Glass Co., Inc.             |                 |                                      |



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|-----------------|---------------------------------------------------|-----------------|-----------------------------------------------------|-----------------|--------------------------------------|
| 4572            | Architectural Glass Products, LLC                 | 4636            | United Plate Glass Company of Charlotte             | 4687            | Basco Engineered Products            |
| 4573            | Architectural Glass Products, LLC                 |                 |                                                     | 4688            | Basco Engineered Products            |
| 4574            | Architectural Glass Products, LLC                 | 4638            | Flat Glass Distributors                             | 4689            | Basco Engineered Products            |
| 4575            | Jiangmen SYP Engineering Glass Co., Ltd           | 4639            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4700            | Oldcastle BuildingEnvelope™          |
| 4576            | Oldcastle BuildingEnvelope™                       | 4640            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4701            | Contour Industries, Inc.             |
| 4578            | Catalina Tempering                                | 4641            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4702            | Contour Industries, Inc.             |
| 4579            | Catalina Tempering                                | 4642            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4703            | Contour Industries, Inc.             |
| 4580            | Catalina Tempering                                | 4643            | Amsco Windows                                       | 4704            | Contour Industries, Inc.             |
| 4581            | Catalina Tempering                                | 4644            | AGC Flat Glass North America                        | 4705            | Contour Industries, Inc.             |
| 4582            | Catalina Tempering                                | 4645            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4710            | Oldcastle BuildingEnvelope™          |
| 4583            | Guardian Industries Corp.                         | 4648            | XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)      | 4711            | Pulp Studio Inc.                     |
| 4584            | Cardinal IG                                       | 4649            | AGC Flat Glass North America                        | 4712            | Vidrios El Castillo SC de RL de CV   |
| 4587            | Cardinal IG                                       | 4651            | Vitra Vidrios Transformados SA de CV                | 4713            | Vidrios El Castillo SC de RL de CV   |
| 4588            | Intigral                                          | 4652            | Vitra Vidrios Transformados SA de CV                | 4714            | Consolidated Glass Corp.             |
| 4590            | Al Abbar Architectural Glass                      | 4653            | Vitra Vidrios Transformados SA de CV                | 4715            | AGP, LLC                             |
| 4591            | New Angle Beveling                                | 4654            | Vitra Vidrios Transformados SA de CV                | 4716            | AGP, LLC                             |
| 4592            | New Angle Beveling                                | 4655            | Vitra Vidrios Transformados SA de CV                | 4717            | AGP, LLC                             |
| 4593            | New Angle Beveling                                | 4656            | Guardian Webster, Inc.                              | 4718            | AGP, LLC                             |
| 4594            | New Angle Beveling                                | 4657            | Changshu Xingfu Glass Building Material Co., LTD    | 4719            | AGP, LLC                             |
| 4595            | New Angle Beveling                                | 4658            | Guardian Industries Corp.                           | 4720            | Viracon Inc.                         |
| 4596            | Trulite Glass and Aluminum Solutions              | 4661            | The Original Frameless Shower Door                  | 4722            | Fairis C.A.                          |
| 4597            | White Aluminum Enterprises LLC                    | 4662            | The Original Frameless Shower Door                  | 4723            | Guangdong Golden Glass Technologies  |
| 4598            | White Aluminum Enterprises LLC                    | 4663            | The Original Frameless Shower Door                  | 4724            | Basco Engineered Products            |
| 4599            | Cardinal CG                                       | 4666            | Trulite Glass and Aluminum Solutions                | 4725            | View Inc.                            |
| 4601            | Trulite Glass & Aluminum Solutions                | 4667            | Trulite Glass and Aluminum Solutions                | 4726            | View Inc.                            |
| 4602            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.      | 4668            | Kohler Company                                      | 4727            | View Inc.                            |
| 4604            | Guardian Industries Corp.                         | 4669            | Foshan Nanhai Gangsheng Tempered Glass Factory      | 4728            | View Inc.                            |
| 4605            | Guardian Industries Corp.                         | 4670            | Foshan Nanhai Gangsheng Tempered Glass Factory      | 4729            | Dolphin Glass Specialists, LLC       |
| 4606            | Guardian Industries Corp.                         | 4671            | Foshan Nanhai Gangsheng Tempered Glass Factory      | 4730            | Tacoma Glass Mfg. Inc.               |
| 4607            | Guardian Industries Corp.                         | 4672            | Foshan Nanhai Gangsheng Tempered Glass Factory      | 4731            | Tacoma Glass Mfg. Inc.               |
| 4608            | Guardian Industries Corp.                         | 4673            | Foshan Nanhai Gangsheng Tempered Glass Factory      | 4732            | Tacoma Glass Mfg. Inc.               |
| 4609            | Guardian Industries Corp.                         | 4675            | Reem Emirates Aluminum & Glass                      | 4735            | Tacoma Glass Mfg. Inc.               |
| 4610            | Guardian Industries Corp.                         | 4676            | Reem Emirates Aluminum & Glass                      | 4742            | Catalina Tempering                   |
| 4611            | Guardian Industries Corp.                         | 4677            | Reem Emirates Aluminum & Glass                      | 4743            | Trulite Glass & Aluminum Solutions   |
| 4612            | Guardian Industries Corp.                         | 4680            | Beijing Northglass Safety Glass Co., Ltd            | 4744            | Trulite Glass & Aluminum Solutions   |
| 4613            | Guardian Industries Corp.                         | 4681            | Beijing Northglass Safety Glass Co., Ltd            | 4745            | Trulite Glass & Aluminum Solutions   |
| 4615            | American Shower Door                              | 4682            | Integral Seal Mfg. Inc.                             | 4746            | Trulite Glass & Aluminum Solutions   |
| 4616            | American Shower Door                              | 4683            | Integral Seal Mfg. Inc.                             | 4747            | Trulite Glass & Aluminum Solutions   |
| 4618            | Oldcastle BuildingEnvelope™                       | 4684            | Integral Seal Mfg. Inc.                             | 4748            | Trulite Glass & Aluminum Solutions   |
| 4619            | Oldcastle BuildingEnvelope™                       | 4685            | Pulp Studio Inc.                                    | 4749            | Trulite Glass and Aluminum Solutions |
| 4620            | Catalina Tempering Ohio                           | 4686            | Hartung Glass Industries                            | 4750            | Trulite Glass and Aluminum Solutions |
| 4621            | Catalina Tempering Ohio                           |                 |                                                     | 4752            | Trulite Glass and Aluminum Solutions |
| 4622            | Catalina Tempering Ohio                           |                 |                                                     | 4753            | Trulite Glass and Aluminum Solutions |
| 4623            | Catalina Tempering Ohio                           |                 |                                                     | 4754            | Trulite Glass and Aluminum Solutions |
| 4624            | Catalina Tempering Ohio                           |                 |                                                     | 4755            | Trulite Glass & Aluminum Solutions   |
| 4625            | Catalina Tempering Ohio                           |                 |                                                     | 4756            | Catalina Tempering                   |
| 4626            | Downey Glass Industries, LLC                      |                 |                                                     | 4757            | Catalina Tempering                   |
| 4627            | Guardian Industries Corp.                         |                 |                                                     | 4758            | Catalina Tempering                   |
| 4628            | Glass Enterprises, Inc.                           |                 |                                                     | 4759            | Catalina Tempering                   |
| 4629            | Glass Enterprises, Inc.                           |                 |                                                     | 4760            | Catalina Tempering                   |
| 4630            | Cardinal CG                                       |                 |                                                     | 4761            | Catalina Tempering                   |
| 4631            | Hartung Glass Industries                          |                 |                                                     | 4762            | Vidrios Marte SA de CV               |
| 4632            | Guardian Industries Corp.                         |                 |                                                     | 4763            | Dallas Flat Glass                    |
| 4633            | Guardian Industries Corp.                         |                 |                                                     | 4764            | Global Security Glazing              |
| 4635            | Qinhuangdao High-Tech Energy-Saving Dorwin Co Ltd |                 |                                                     | 4765            | Global Security Glazing              |
|                 |                                                   |                 |                                                     | 4766            | Global Security Glazing              |

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| 4767            | Global Security Glazing                             | 4833            | Oldcastle BuildingEnvelope™                      | 4911            | Prelco Inc.                                         |
| 4768            | Global Security Glazing                             | 4834            | D3 Glass, LLC                                    | 4912            | Prelco Inc.                                         |
| 4769            | Global Security Glazing                             | 4835            | D3 Glass, LLC                                    | 4913            | Prelco Inc.                                         |
| 4770            | Global Security Glazing                             | 4836            | Cardinal IG                                      | 4914            | Prelco Inc.                                         |
| 4771            | A Plus Glass Services                               | 4837            | Berkowitz, J.E.                                  | 4915            | Prelco Inc.                                         |
| 4772            | A Plus Glass Services                               | 4838            | Dillmeier Enterprise, Inc.                       | 4916            | Prelco Inc.                                         |
| 4773            | A Plus Glass Services                               | 4839            | Dillmeier Enterprise, Inc.                       | 4917            | Prelco Inc.                                         |
| 4774            | GGI Glass Distributors Corp.                        | 4840            | Cardinal LG                                      | 4918            | Troy Systems LLC                                    |
| 4775            | Cardinal CG                                         | 4841            | Cardinal LG                                      | 4919            | Columbia Commercial Building Products, Acquisitions |
| 4779            | Viracon Inc.                                        | 4842            | Cardinal LG                                      | 4920            | Columbia Commercial Building Products, Acquisitions |
| 4780            | Cardinal Solar Technologies                         | 4843            | Cardinal LG                                      | 4921            | Columbia Commercial Building Products, Acquisitions |
| 4781            | Cardinal Solar Technologies                         | 4844            | Cardinal LG                                      | 4922            | Trulite Glass and Aluminum Solutions                |
| 4782            | Cardinal Solar Technologies                         | 4845            | Changshu Mingyang Glass Products Co., Ltd.       | 4923            | Trulite Glass and Aluminum Solutions                |
| 4783            | Cardinal Solar Technologies                         | 4846            | Al Abbar Architectural Glass                     | 4924            | Cuda Glass & Metals                                 |
| 4784            | Viracon Inc.                                        | 4847            | Texas Tempered Glass Inc.                        | 4926            | Upstate Glass Tempering Inc.                        |
| 4785            | Consolidated Glass Corp.                            | 4848            | Texas Tempered Glass Inc.                        | 4927            | Upstate Glass Tempering Inc.                        |
| 4787            | Oldcastle BuildingEnvelope™                         | 4849            | Texas Tempered Glass Inc.                        | 4933            | Shanghai Mingte Glass Technology Co., Ltd.          |
| 4788            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4850            | Texas Tempered Glass Inc.                        | 4934            | Shanghai Mingte Glass Technology Co., Ltd.          |
| 4789            | AGP, LLC                                            | 4851            | Texas Tempered Glass Inc.                        | 4935            | Shanghai Mingte Glass Technology Co., Ltd.          |
| 4790            | Dallas Flat Glass                                   | 4852            | Wujiang CSG Huadong Architectural Glass Co., LTD | 4936            | Changshu Zhouxing Glass Co. Ltd.                    |
| 4791            | D3 Glass, LLC                                       | 4853            | Wujiang CSG Huadong Architectural Glass Co., LTD | 4937            | Changshu Zhouxing Glass Co. Ltd.                    |
| 4792            | D3 Glass, LLC                                       | 4854            | Wujiang CSG Huadong Architectural Glass Co., LTD | 4938            | AGC Flat Glass North America                        |
| 4793            | D3 Glass, LLC                                       | 4855            | Wujiang CSG Huadong Architectural Glass Co., LTD | 4939            | AGC Flat Glass North America                        |
| 4794            | Trulite Glass & Aluminum Solutions                  | 4856            | Wujiang CSG Huadong Architectural Glass Co., LTD | 4940            | AGC Flat Glass North America                        |
| 4795            | D3 Glass, LLC                                       | 4857            | Wujiang CSG Huadong Architectural Glass Co., LTD | 4941            | AGC Flat Glass North America                        |
| 4796            | Gulf Glass Industries, LLC                          | 4859            | Wujiang CSG Huadong Architectural Glass Co., LTD | 4942            | AGC Flat Glass North America                        |
| 4797            | Gulf Glass Industries, LLC                          | 4870            | Dongguan Taisheng Glass Co., Ltd.                | 4943            | AGC Flat Glass North America                        |
| 4798            | Gulf Glass Industries, LLC                          | 4872            | Dongguan Taisheng Glass Co., Ltd.                | 4964            | AGC Flat Glass North America                        |
| 4799            | Gulf Glass Industries, LLC                          | 4873            | Dongguan Taisheng Glass Co., Ltd.                | 4965            | AGC Flat Glass North America                        |
| 4800            | Guardian Industries Corp.                           | 4875            | Yong Feng Tai Foshan City Glas Co., LTD.         | 4966            | Vidrio Bisel S.A. de C.V.                           |
| 4801            | PGT Industries                                      | 4876            | Yong Feng Tai Foshan City Glas Co., LTD.         | 4967            | Vidrio Bisel S.A. de C.V.                           |
| 4804            | Glasswerks LA, Inc.                                 | 4877            | Yong Feng Tai Foshan City Glas Co., LTD.         | 4968            | Vidrio Bisel S.A. de C.V.                           |
| 4805            | Glasswerks LA, Inc.                                 | 4879            | SAAND Rexdale                                    | 4976            | AGC Flat Glass North America                        |
| 4806            | Glasswerks LA, Inc.                                 | 4880            | SAAND Rexdale                                    | 4977            | AGC Flat Glass North America                        |
| 4807            | Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB  | 4881            | Cardinal TG                                      | 4978            | Simonton Windows                                    |
| 4808            | Cardinal TG                                         | 4882            | Oldcastle BuildingEnvelope™                      | 4979            | Simonton Windows                                    |
| 4809            | Cardinal TG                                         | 4887            | GSA Armourplate                                  | 4980            | AGC Flat Glass North America                        |
| 4810            | AGP, LLC                                            | 4900            | NY Tempering LLC                                 | 4981            | AGC Flat Glass North America                        |
| 4811            | Spec-Temp, Inc.                                     | 4901            | NY Tempering LLC                                 | 4982            | AGC Glass Company North America                     |
| 4812            | PGT Industries                                      | 4902            | NY Tempering LLC                                 | 4983            | AGC Glass Company North America                     |
| 4813            | McGrory Glass                                       | 4903            | NY Tempering LLC                                 | 4984            | AGC Glass Company North America                     |
| 4814            | McGrory Glass                                       | 4904            | Prelco Inc.                                      | 4985            | AGC Glass Company North America                     |
| 4815            | McGrory Glass                                       | 4905            | Prelco Inc.                                      | 4986            | AGC Glass Company North America                     |
| 4821            | Cardinal Solar Technologies                         | 4906            | Prelco Inc.                                      | 4987            | AGC Glass Company North America                     |
| 4822            | Thermal Seal Insulating Glass                       | 4907            | Grand Glass Windows and Doors Inc.               | 4988            | AGC Glass Company North America                     |
| 4823            | Thermal Seal Insulating Glass                       | 4908            | Grand Glass Windows and Doors Inc.               | 4989            | AGC Glass Company North America                     |
| 4824            | Thermal Seal Insulating Glass                       | 4909            | Grand Glass Windows and Doors Inc.               | 4990            | AGC Glass Company North America                     |
| 4825            | Thermal Seal Insulating Glass                       | 4910            | AGC Flat Glass North America                     | 4991            | AGC Glass Company North America                     |
| 4826            | Thermal Seal Insulating Glass                       |                 |                                                  | 4992            | AGC Glass Company North America                     |
| 4827            | AGC Flat Glass North America                        |                 |                                                  | 4993            | Tweddell's Inc.                                     |
| 4828            | Jiaying Joinbath Corporation                        |                 |                                                  | 4994            | AGC Flat Glass North America                        |
| 4829            | Guardian Industries Corp.                           |                 |                                                  | 5014            | EFI                                                 |
| 4830            | Thermal Seal Insulating Glass                       |                 |                                                  |                 |                                                     |
| 4831            | Thermal Seal Insulating Glass                       |                 |                                                  |                 |                                                     |
| 4832            | Cameron Glass, Inc.                                 |                 |                                                  |                 |                                                     |

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*Certified Products-Numerical Sequence*

| <i>SGCC No.</i> | <i>SGCC No.</i>                                        | <i>SGCC No.</i> |
|-----------------|--------------------------------------------------------|-----------------|
| 5015            | Sage Electrochromics Inc.                              |                 |
| 5016            | Sage Electrochromics Inc.                              |                 |
| 5017            | Viracon Inc.                                           |                 |
| 5018            | Anthony International                                  |                 |
| 5019            | SF Tempering                                           |                 |
| 5020            | SF Tempering                                           |                 |
| 5021            | SF Tempering                                           |                 |
| 5022            | Columbia Commercial Building<br>Products, Acquisitions |                 |
| 5023            | Columbia Commercial Building<br>Products, Acquisitions |                 |
| 5024            | Oldcastle BuildingEnvelope™                            |                 |
| 5025            | Oldcastle BuildingEnvelope™                            |                 |
| 5026            | EFI                                                    |                 |
| 5028            | Dongguan Trillion Aluminum Glass<br>Co., Ltd           |                 |
| 5029            | Dongguan Trillion Aluminum Glass<br>Co., Ltd           |                 |
| 5030            | Dongguan Trillion Aluminum Glass<br>Co., Ltd           |                 |
| 5031            | Dongguan Trillion Aluminum Glass<br>Co., Ltd           |                 |
| 5037            | Vitra Vidrios Transformados SA de<br>CV                |                 |
| 5038            | Vitra Vidrios Transformados SA de<br>CV                |                 |
| 5039            | Triview Glass Industries                               |                 |
| 5040            | Triview Glass Industries                               |                 |
| 5041            | Triview Glass Industries                               |                 |
| 5042            | Triview Glass Industries                               |                 |
| 5043            | Triview Glass Industries                               |                 |
| 5044            | Triview Glass Industries                               |                 |
| 5045            | Triview Glass Industries                               |                 |
| 5046            | Triview Glass Industries                               |                 |
| 5047            | Triview Glass Industries                               |                 |
| 5048            | Triview Glass Industries                               |                 |
| 5049            | AGC Flat Glass North America                           |                 |
| 5050            | Techni-Glass, Inc.                                     |                 |
| 5051            | Oldcastle BuildingEnvelope™                            |                 |
| 5052            | Jiangmen SYP Engineering Glass<br>Co., Ltd             |                 |
| 5053            | Jiangmen SYP Engineering Glass<br>Co., Ltd             |                 |
| 5054            | Jiangmen SYP Engineering Glass<br>Co., Ltd             |                 |
| 5055            | Jiangmen SYP Engineering Glass<br>Co., Ltd             |                 |

## 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>A Plus Glass Services ; Medley, FL</b>            |           |                                |               |                       |               | <b>AGC Flat Glass North America ; Jacksonville, FL</b> |           |                                |                   |                       |               |
| 4771                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 3006                                                   | COMPOSITE | 1/8                            | 3.0 TTG           | U                     | A             |
| 4772                                                 | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 3786                                                   | COMPOSITE | 5/32                           | 4.0 TTG           | U                     | A             |
| 4773                                                 | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 3007                                                   | COMPOSITE | 3/16                           | 5.0 TTG           | U                     | A             |
| <b>AGC Flat Glass North America ; Alvarado, TX</b>   |           |                                |               |                       |               | 3008                                                   | COMPOSITE | 1/4                            | 6.0 TTG           | U                     | A             |
| 3677                                                 | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 3009                                                   | COMPOSITE | 3/8                            | 10.0 TTG          | U                     | A             |
| 3814                                                 | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 3010                                                   | COMPOSITE | 1/2                            | 12.0 TTG          | U                     | A             |
| 1710                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 3011                                                   | COMPOSITE | 1/8                            | 3.0 TPG (m)       | U                     | A             |
| 1711                                                 | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 5049                                                   | COMPOSITE | 3/16                           | 5.0 TPG (m)       | U                     | A             |
| 1712                                                 | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 3785                                                   | COMPOSITE | 3/16                           | 5.0 TPG (s)       | U                     | A             |
| 3815                                                 | COMPOSITE | 1/8                            | 3.0 TPG (m)   | U                     | A             | 4145                                                   | COMPOSITE | (S)                            | 6 LTG (b)         | (.030) U              | A             |
| 2406                                                 | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             | 4144                                                   | COMPOSITE | (S)                            | 6 LTG (b)         | (.015) U              | B             |
| 1714                                                 | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             | 4141                                                   | COMPOSITE | (H)                            | 8-12, 19+ LTG (b) | (.030) U              | A             |
| 4910                                                 | COMPOSITE | 3/8                            | 10.0 TPG (m)  | U                     | A             | 4142                                                   | COMPOSITE | (H)                            | 8-12 LTG (ip)     | (.090) U              | A             |
| <b>AGC Flat Glass North America ; Carbondale, PA</b> |           |                                |               |                       |               | <b>AGC Flat Glass North America ; Knoxville, TN</b>    |           |                                |                   |                       |               |
| 4977                                                 | COMPOSITE | (S)                            | 5 LTG (b)     | (.015) U              | B             | 4209                                                   | COMPOSITE | 1/8                            | 3.0 TTG           | U                     | A             |
| 4644                                                 | COMPOSITE | (S)                            | 6 LTG (b)     | (.030) U              | A             | 4827                                                   | COMPOSITE | 5/32                           | 4.0 TTG           | U                     | A             |
| 4976                                                 | COMPOSITE | (H)                            | 8 LTG (b)     | (.090) U              | A             | 4152                                                   | COMPOSITE | 3/16                           | 5.0 TTG           | U                     | A             |
| 4232                                                 | COMPOSITE | (H)                            | 10-12 LTG (b) | (.030) U              | A             | 4153                                                   | COMPOSITE | 1/4                            | 6.0 TTG           | U                     | A             |
| <b>AGC Flat Glass North America ; Fall River, MA</b> |           |                                |               |                       |               | 4158                                                   | COMPOSITE | 3/8                            | 10.0 TTG          | U                     | A             |
| 1518                                                 | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 4159                                                   | COMPOSITE | 1/2                            | 12.0 TTG          | U                     | A             |
| 3553                                                 | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 4207                                                   | COMPOSITE | 1/8                            | 3.0 TPG (s)       | U                     | A             |
| 3648                                                 | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 4981                                                   | COMPOSITE | 5/32                           | 4.0 TPG (d)       | U                     | A             |
| 1520                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 4160                                                   | COMPOSITE | 3/16                           | 5.0 TPG (d)       | U                     | A             |
| 1521                                                 | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 4980                                                   | COMPOSITE | 1/4                            | 6.0 TPG (m)       | U                     | A             |
| 1522                                                 | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | <b>AGC Flat Glass North America ; Marietta, GA</b>     |           |                                |                   |                       |               |
| 4964                                                 | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             | 1405                                                   | COMPOSITE | 1/8                            | 3.0 TTG           | U                     | A             |
| 2160                                                 | COMPOSITE | 5/32                           | 4.0 TPG (s)   | U                     | A             | 1967                                                   | COMPOSITE | 5/32                           | 4.0 TTG           | U                     | A             |
| 1523                                                 | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             | 1230                                                   | COMPOSITE | 3/16                           | 5.0 TTG           | U                     | A             |
| 4965                                                 | COMPOSITE | 3/8                            | 10.0 TPG (s)  | U                     | A             | 1231                                                   | COMPOSITE | 1/4                            | 6.0 TTG           | U                     | A             |
| <b>AGC Flat Glass North America ; Greenland, TN</b>  |           |                                |               |                       |               | 1232                                                   | COMPOSITE | 3/8                            | 10.0 TTG          | U                     | A             |
| 598                                                  | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 1406                                                   | COMPOSITE | 1/2                            | 12.0 TTG          | U                     | A             |
| 955                                                  | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 1428                                                   | COMPOSITE | 5/32                           | 4.0 TPG (s)       | U                     | A             |
| 220                                                  | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 2054                                                   | COMPOSITE | 3/16                           | 5.0 TPG (d)       | U                     | A             |
| 89                                                   | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | <b>AGC Flat Glass North America ; Opelousas, LA</b>    |           |                                |                   |                       |               |
| 4046                                                 | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             | 2899                                                   | COMPOSITE | 1/8                            | 3.0 TTG           | U                     | A             |
| 90                                                   | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 3705                                                   | COMPOSITE | 5/32                           | 4.0 TTG           | U                     | A             |
| 587                                                  | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             | 2900                                                   | COMPOSITE | 3/16                           | 5.0 TTG           | U                     | A             |
| 2980                                                 | COMPOSITE | 5/32                           | 4.0 TPG (m)   | U                     | A             | 2901                                                   | COMPOSITE | 1/4                            | 6.0 TTG           | U                     | A             |
| 1139                                                 | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             | 3706                                                   | COMPOSITE | 3/8                            | 10.0 TTG          | U                     | A             |
| <b>AGC Flat Glass North America ; Hebron, OH</b>     |           |                                |               |                       |               | 3707                                                   | COMPOSITE | 1/2                            | 12.0 TTG          | U                     | A             |
| 3663                                                 | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 2902                                                   | COMPOSITE | 1/8                            | 3.0 TPG (s)       | U                     | A             |
| 3091                                                 | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 3708                                                   | COMPOSITE | 5/32                           | 4.0 TPG (d)       | U                     | A             |
| 2197                                                 | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 2903                                                   | COMPOSITE | 3/16                           | 5.0 TPG (d)       | U                     | A             |
| 2198                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 3709                                                   | COMPOSITE | 1/4                            | 6.0 TPG (d)       | U                     | A             |
| 2199                                                 | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 3710                                                   | COMPOSITE | 3/8                            | 10.0 TPG (s)      | U                     | A             |
| 2200                                                 | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | <b>AGC Flat Glass North America ; Quakertown, PA</b>   |           |                                |                   |                       |               |
| 3768                                                 | COMPOSITE | 1/8                            | 3.0 TPG (m)   | U                     | A             | 2507                                                   | COMPOSITE | 1/8                            | 3.0 TTG           | U                     | A             |
| 2768                                                 | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             | 3421                                                   | COMPOSITE | 5/32                           | 4.0 TTG           | U                     | A             |
| 2592                                                 | COMPOSITE | 3/16                           | 5.0 TPG (d)   | U                     | A             | 2509                                                   | COMPOSITE | 3/16                           | 5.0 TTG           | U                     | A             |
| 3081                                                 | COMPOSITE | 1/4                            | 6.0 TPG (d)   | U                     | A             | 2666                                                   | COMPOSITE | 1/4                            | 6.0 TTG           | U                     | A             |
| 3082                                                 | COMPOSITE | 3/8                            | 10.0 TPG (m)  | U                     | A             | 2510                                                   | COMPOSITE | 1/8                            | 3.0 TPG (m)       | U                     | A             |
|                                                      |           |                                |               |                       |               | 3698                                                   | COMPOSITE | 3/16                           | 5.0 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>AGC Flat Glass North America ; Richmond, VA</b>          |           |                                |              |                       |               | <b>AGP, LLC ; Miramar, FL</b>                                     |           |                                |               |                       |               |
| 2521                                                        | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 4715                                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 2480                                                        | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 4716                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 2522                                                        | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4717                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 1957                                                        | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4718                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 1958                                                        | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 4719                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 1959                                                        | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4810                                                              | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |
| 4649                                                        | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | 4789                                                              | COMPOSITE | (H)                            | 12 LTG (lu)   | (.090) U              | A             |
| 2999                                                        | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             | <b>Al Abbar Architectural Glass ; Dubai, United Arab Emirates</b> |           |                                |               |                       |               |
| <b>AGC Flat Glass North America ; Salt Lake City, UT</b>    |           |                                |              |                       |               | 4846                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 4265                                                        | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 3556                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4478                                                        | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 3557                                                              | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 4266                                                        | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 3558                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4267                                                        | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4590                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 4994                                                        | COMP+CAN  | 5/16                           | 8.0 TTG      | U                     | A             | 3976                                                              | COMPOSITE | *                              | 15.0 TTG (4)  | U                     | A             |
| 4268                                                        | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 3977                                                              | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |
| 4269                                                        | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 3560                                                              | COMPOSITE | (H)                            | 8-16+ LTG (b) | (.030) U              | A             |
| 4270                                                        | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | <b>All Team Glass &amp; Mirror, Ltd. ; Woodbridge, ON Canada</b>  |           |                                |               |                       |               |
| 4271                                                        | COMPOSITE | 5/32                           | 4.0 TPG (s)  | U                     | A             | 1754                                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 4272                                                        | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             | 1755                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 4479                                                        | COMPOSITE | 3/8                            | 10.0 TPG (s) | U                     | A             | 1756                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| <b>AGC Flat Glass North America ; San Antonio, TX</b>       |           |                                |              |                       |               | 2790                                                              | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 3645                                                        | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 1757                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 3646                                                        | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 1758                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 3839                                                        | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4355                                                              | COMPOSITE | 5/8                            | 16.0 TTG      | U                     | A             |
| 3326                                                        | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3656                                                              | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |
| 3327                                                        | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | <b>Alyusuf Thermo Glass W.L.L. ; Manama, Bahrain</b>              |           |                                |               |                       |               |
| 4277                                                        | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4495                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3818                                                        | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | 4496                                                              | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 3647                                                        | COMPOSITE | 5/32                           | 4.0 TPG (m)  | U                     | A             | 4497                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4342                                                        | COMPOSITE | 3/16                           | 5.0 TPG (d)  | U                     | A             | 4498                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 3819                                                        | COMPOSITE | 1/4                            | 6.0 TPG (s)  | U                     | A             | <b>American Shower Door ; Los Angeles, CA</b>                     |           |                                |               |                       |               |
| 3820                                                        | COMPOSITE | 3/8                            | 10.0 TPG (s) | U                     | A             | 4616                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| <b>AGC Flat Glass North America ; Spring Hill, KS</b>       |           |                                |              |                       |               | 3039                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 1702                                                        | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 3040                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 1703                                                        | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 3041                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 1704                                                        | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4615                                                              | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |
| 1705                                                        | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3042                                                              | COMPOSITE | 1/4                            | 6.0 TPG (s)   | U                     | A             |
| <b>AGC Flat Glass North America ; Winnipeg, MB</b>          |           |                                |              |                       |               | 3043                                                              | COMPOSITE | 3/8                            | 10.0 TPG (s)  | U                     | A             |
| 4938                                                        | COMP+CAN  | 1/8                            | 3.0 TTG      | U                     | A             | <b>Amsco Windows ; Salt Lake City, UT</b>                         |           |                                |               |                       |               |
| 4939                                                        | COMP+CAN  | 5/32                           | 4.0 TTG      | U                     | A             | 2578                                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 4940                                                        | COMP+CAN  | 3/16                           | 5.0 TTG      | U                     | A             | 4643                                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 4941                                                        | COMP+CAN  | 1/4                            | 6.0 TTG      | U                     | A             | 2580                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 4942                                                        | COMP+CAN  | 3/8                            | 10.0 TTG     | U                     | A             | 2581                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4943                                                        | COMP+CAN  | 1/2                            | 12.0 TTG     | U                     | A             | 2582                                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             |
| <b>AGC Glass Company North America ; Lithia Springs, GA</b> |           |                                |              |                       |               | 2584                                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             |
| 4982                                                        | COMP+CAN  | 1/8                            | 3.0 TTG      | U                     | A             | <b>Anlin Industries ; Clovis, CA</b>                              |           |                                |               |                       |               |
| 4983                                                        | COMP+CAN  | 5/32                           | 4.0 TTG      | U                     | A             | 3360                                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 4984                                                        | COMP+CAN  | 3/16                           | 5.0 TTG      | U                     | A             | 3079                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 4985                                                        | COMP+CAN  | 1/4                            | 6.0 TTG      | U                     | A             | 3076                                                              | COMPOSITE | 1/8                            | 3.0 TPG (m)   | U                     | A             |
| 4986                                                        | COMP+CAN  | 3/8                            | 10.0 TTG     | U                     | A             | 3077                                                              | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             |
| 4987                                                        | COMP+CAN  | 1/2                            | 12.0 TTG     | U                     | A             | 3078                                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             |
| 4988                                                        | COMP+CAN  | 1/8                            | 3.0 TPG (m)  | U                     | A             |                                                                   |           |                                |               |                       |               |
| 4989                                                        | COMP+CAN  | 5/32                           | 4.0 TPG (d)  | U                     | A             |                                                                   |           |                                |               |                       |               |
| 4990                                                        | COMP+CAN  | 3/16                           | 5.0 TPG (d)  | U                     | A             |                                                                   |           |                                |               |                       |               |
| 4991                                                        | COMP+CAN  | 1/4                            | 6.0 TPG (m)  | U                     | A             |                                                                   |           |                                |               |                       |               |
| 4992                                                        | COMP+CAN  | 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>Anthony International ; Madison, GA</b>                       |           |                                |              |                       |               | <b>Berkowitz, J.E. ; Pedricktown, NJ</b>          |           |                                |               |                       |               |
| 3249                                                             | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 4837                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3027                                                             | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 2646                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 2352                                                             | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 1991                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 2353                                                             | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 2647                                              | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |
| 2453                                                             | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 3749                                              | COMPOSITE | (S)                            | 6 LTG (b)     | (.030) U              | A             |
| 5018                                                             | COMPOSITE | 1/2                            | 13.0 TTG     | U                     | A             | 3750                                              | COMPOSITE | (H)                            | 10-12 LTG (b) | (.030) U              | A             |
| 2727                                                             | COMPOSITE | 1/8                            | 3.0 TBG (IN) | U                     | A             | <b>Blue Star Glass Inc. ; North Brunswick, NJ</b> |           |                                |               |                       |               |
| 2305                                                             | COMPOSITE | 5/32                           | 4.0 TBG      | U                     | A             | 4517                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 2306                                                             | COMPOSITE | 3/16                           | 5.0 TBG      | U                     | A             | 4518                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 2307                                                             | COMPOSITE | 1/4                            | 6.0 TBG      | U                     | A             | 4519                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| <b>Anthony International ; San Fernando, CA</b>                  |           |                                |              |                       |               | 4520                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 520                                                              | ANSI ONLY | 1/8                            | 3.0 TTG      | U                     | A             | 4521                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 2289                                                             | ANSI ONLY | 5/32                           | 4.0 TTG      | U                     | A             | <b>Cameron Glass, Inc. ; Broken Arrow, OK</b>     |           |                                |               |                       |               |
| 999                                                              | ANSI ONLY | 3/16                           | 5.0 TTG      | U                     | A             | 4832                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 1000                                                             | ANSI ONLY | 1/4                            | 6.0 TTG      | U                     | A             | 2501                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| <b>Architectural Glass Products, LLC ; St. Louis, MO</b>         |           |                                |              |                       |               | 2455                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4571                                                             | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 2032                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4572                                                             | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 2033                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 4573                                                             | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | <b>Cardinal CG ; Buford, GA</b>                   |           |                                |               |                       |               |
| 4574                                                             | COMPOSITE | 3/16                           | 5.0 TPG (s)  | U                     | A             | 1921                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| <b>Arlene Stained Glass &amp; Door ; Houston, TX</b>             |           |                                |              |                       |               | 1922                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 3583                                                             | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 1923                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 3584                                                             | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 1924                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3585                                                             | COMPOSITE | 5/32                           | 4.0 TPG (s)  | U                     | A             | 2146                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             |
| <b>AVIC Sanxin Co. Ltd. ; Shenzhen, China</b>                    |           |                                |              |                       |               | 4599                                              | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             |
| 3567                                                             | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | <b>Cardinal CG ; Casa Grande, AZ</b>              |           |                                |               |                       |               |
| 3568                                                             | COMPOSITE | 5/16                           | 8.0 TTG      | U                     | A             | 2878                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 3569                                                             | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 2879                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 3570                                                             | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 2880                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 3571                                                             | COMPOSITE | *                              | 15.0 TTG (3) | U                     | A             | 2881                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3572                                                             | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             | 4103                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             |
| 3573                                                             | COMPOSITE | (H)                            | 12+ LTG (b)  | (.030) U              | A             | 4104                                              | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             |
| <b>Basco Engineered Products ; Hamilton, OH</b>                  |           |                                |              |                       |               | 4105                                              | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             |
| 4139                                                             | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | <b>Cardinal CG ; Galt, CA</b>                     |           |                                |               |                       |               |
| 4724                                                             | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 2357                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 3810                                                             | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 2358                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 3811                                                             | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 2359                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 3812                                                             | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 2360                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4687                                                             | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | 3599                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             |
| 4688                                                             | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             | 4347                                              | COMPOSITE | 5/32                           | 4.0 TPG (m)   | U                     | A             |
| 4689                                                             | COMPOSITE | 1/4                            | 6.0 TPG (s)  | U                     | A             | 3601                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             |
| <b>Beijing Northglass Safety Glass Co., Ltd ; Beijing, China</b> |           |                                |              |                       |               | <b>Cardinal CG ; Loveland, CO</b>                 |           |                                |               |                       |               |
| 4680                                                             | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3579                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 4681                                                             | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             | 3580                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 4279                                                             | COMPOSITE | (H)                            | 22+ LTG (ip) | (.060) U              | A             | 3581                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| <b>Bendheim Wall Systems ; Wunsiedel-Holenbrunn, Germany</b>     |           |                                |              |                       |               | 3555                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 2570                                                             | COMPOSITE | *                              | 6.0 TBG (2)  | 20x76 A               |               | 4343                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             |
| 2569                                                             | COMPOSITE | *                              | 7.0 TBG (2)  | 16x76 A               |               | 4344                                              | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             |
|                                                                  |           |                                |              |                       |               | 4345                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             |
|                                                                  |           |                                |              |                       |               | <b>Cardinal CG ; Moreno Valley, CA</b>            |           |                                |               |                       |               |
|                                                                  |           |                                |              |                       |               | 2293                                              | CPSC ONLY | 1/8                            | 3.0 TTG       | U                     |               |
|                                                                  |           |                                |              |                       |               | 2294                                              | CPSC ONLY | 5/32                           | 4.0 TTG       | U                     |               |
|                                                                  |           |                                |              |                       |               | 2295                                              | CPSC ONLY | 3/16                           | 5.0 TTG       | U                     |               |
|                                                                  |           |                                |              |                       |               | 2296                                              | CPSC ONLY | 1/4                            | 6.0 TTG       | U                     |               |

## 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>Cardinal CG ; Northfield, MN</b>   |           |                                |             |                       |               | <b>Cardinal IG ; Greenfield, IA</b>   |               |                                |             |                       |               |
| 1985                                  | COMP+CAN  | 1/8                            | 3.0 TTG     | U                     | A             | 1827                                  | COMP+CAN      | 1/8                            | 3.0 TTG     | U                     | A             |
| 1986                                  | COMP+CAN  | 5/32                           | 4.0 TTG     | U                     | A             | 1828                                  | COMP+CAN      | 5/32                           | 4.0 TTG     | U                     | A             |
| 1987                                  | COMP+CAN  | 3/16                           | 5.0 TTG     | U                     | A             | 1829                                  | COMP+CAN      | 3/16                           | 5.0 TTG     | U                     | A             |
| 1988                                  | COMP+CAN  | 1/4                            | 6.0 TTG     | U                     | A             | 1830                                  | COMP+CAN      | 1/4                            | 6.0 TTG     | U                     | A             |
| 4775                                  | COMP+CAN  | 5/16                           | 8.0 TTG     | U                     | A             | 1841                                  | COMP+CAN      | 1/8                            | 3.0 TPG (s) | U                     | A             |
| 4137                                  | COMP+CAN  | 3/8                            | 10.0 TTG    | U                     | A             | 1842                                  | COMP+CAN      | 5/32                           | 4.0 TPG (d) | U                     | A             |
| 4630                                  | COMP+CAN  | 1/2                            | 12.0 TTG    | U                     | A             | 1843                                  | COMP+CAN      | 3/16                           | 5.0 TPG (s) | U                     | A             |
| 2011                                  | COMP+CAN  | 1/8                            | 3.0 TPG (s) | U                     | A             | <b>Cardinal IG ; Hood River, OR</b>   |               |                                |             |                       |               |
| 2012                                  | COMP+CAN  | 5/32                           | 4.0 TPG (s) | U                     | A             | 2831                                  | COMPOSITE     | 1/8                            | 3.0 TTG     | U                     | A             |
| 2013                                  | COMP+CAN  | 3/16                           | 5.0 TPG (s) | U                     | A             | 2858                                  | COMPOSITE     | 5/32                           | 4.0 TTG     | U                     | A             |
| <b>Cardinal CG ; Spring Green, WI</b> |           |                                |             |                       |               | 2833                                  | COMPOSITE     | 3/16                           | 5.0 TTG     | U                     | A             |
| 2067                                  | COMP+CAN  | 1/8                            | 3.0 TTG     | U                     | A             | 2834                                  | COMPOSITE     | 1/4                            | 6.0 TTG     | U                     | A             |
| 2068                                  | COMP+CAN  | 5/32                           | 4.0 TTG     | U                     | A             | 2857                                  | COMPOSITE     | 1/8                            | 3.0 TPG (m) | U                     | A             |
| 2069                                  | COMP+CAN  | 3/16                           | 5.0 TTG     | U                     | A             | 4836                                  | COMPOSITE     | 5/32                           | 4.0 TPG (d) | U                     | A             |
| 2070                                  | COMP+CAN  | 1/4                            | 6.0 TTG     | U                     | A             | 2859                                  | COMPOSITE     | 3/16                           | 5.0 TPG (m) | U                     | A             |
| 2071                                  | COMP+CAN  | 1/8                            | 3.0 TPG (s) | U                     | A             | <b>Cardinal IG ; Mountain Top, PA</b> |               |                                |             |                       |               |
| <b>Cardinal CG ; Tumwater, WA</b>     |           |                                |             |                       |               | 3068                                  | COMP+CAN      | 1/8                            | 3.0 TTG     | U                     | A             |
| 2007                                  | CPSC ONLY | 1/8                            | 3.0 TTG     | U                     |               | 3069                                  | COMP+CAN      | 5/32                           | 4.0 TTG     | U                     | A             |
| 2008                                  | CPSC ONLY | 5/32                           | 4.0 TTG     | U                     |               | 3070                                  | COMP+CAN      | 3/16                           | 5.0 TTG     | U                     | A             |
| 2009                                  | CPSC ONLY | 3/16                           | 5.0 TTG     | U                     |               | 3071                                  | COMP+CAN      | 1/4                            | 6.0 TTG     | U                     | A             |
| 2010                                  | CPSC ONLY | 1/4                            | 6.0 TTG     | U                     |               | 3073                                  | COMP+CAN      | 1/8                            | 3.0 TPG (s) | U                     | A             |
| 2954                                  | CPSC ONLY | 1/8                            | 3.0 TPG (s) | U                     |               | 3115                                  | COMP+CAN      | 5/32                           | 4.0 TPG (s) | U                     | A             |
| 2955                                  | CPSC ONLY | 5/32                           | 4.0 TPG (d) | U                     |               | 3072                                  | COMP+CAN      | 3/16                           | 5.0 TPG (s) | U                     | A             |
| 2956                                  | CPSC ONLY | 3/16                           | 5.0 TPG (m) | U                     |               | <b>Cardinal IG ; Ocala, FL</b>        |               |                                |             |                       |               |
| <b>Cardinal CG ; Waxahachie, TX</b>   |           |                                |             |                       |               | 3505                                  | COMPOSITE     | 1/8                            | 3.0 TTG     | U                     | A             |
| 2699                                  | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             | 3506                                  | COMPOSITE     | 5/32                           | 4.0 TTG     | U                     | A             |
| 2700                                  | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             | 3507                                  | COMPOSITE     | 3/16                           | 5.0 TTG     | U                     | A             |
| 2701                                  | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             | 3508                                  | COMPOSITE     | 1/4                            | 6.0 TTG     | U                     | A             |
| 2702                                  | COMPOSITE | 1/4                            | 6.0 TTG     | U                     | A             | 4316                                  | COMPOSITE     | 3/8                            | 10.0 TTG    | U                     | A             |
| 4047                                  | COMPOSITE | 5/32                           | 4.0 TPG (m) | U                     | A             | 4317                                  | COMPOSITE     | 1/2                            | 12.0 TTG    | U                     | A             |
| 2705                                  | COMPOSITE | 3/16                           | 5.0 TPG (m) | U                     | A             | 4584                                  | COMPOSITE     | 1/8                            | 3.0 TPG (m) | U                     | A             |
| <b>Cardinal FG ; Durant, OK</b>       |           |                                |             |                       |               | 4587                                  | COMPOSITE     | 1/4                            | 6.0 TPG (s) | U                     | A             |
| 2909                                  | COMP+CAN  | 1/8                            | 3.0 TTG     | U                     | A             | 4361                                  | COMPOSITE (S) | 5-6 LTG (ip)                   | (.035) U    | A                     |               |
| 2910                                  | COMP+CAN  | 5/32                           | 4.0 TTG     | U                     | A             | 3509                                  | COMPOSITE (S) | 6 LTG (b)                      | (.030) U    | A                     |               |
| 2911                                  | COMP+CAN  | 3/16                           | 5.0 TTG     | U                     | A             | 3510                                  | COMPOSITE (H) | 8-12 LTG (b)                   | (.030) U    | A                     |               |
| 2912                                  | COMP+CAN  | 1/4                            | 6.0 TTG     | U                     | A             | 4362                                  | COMPOSITE (H) | 8-12 LTG (ip)                  | (.035) U    | A                     |               |
| <b>Cardinal IG ; Fargo, ND</b>        |           |                                |             |                       |               | <b>Cardinal IG ; Spring Green, WI</b> |               |                                |             |                       |               |
| 2235                                  | COMP+CAN  | 1/8                            | 3.0 TTG     | U                     | A             | 1831                                  | COMP+CAN      | 1/8                            | 3.0 TTG     | U                     | A             |
| 2234                                  | COMP+CAN  | 5/32                           | 4.0 TTG     | U                     | A             | 1832                                  | COMP+CAN      | 5/32                           | 4.0 TTG     | U                     | A             |
| 2233                                  | COMP+CAN  | 3/16                           | 5.0 TTG     | U                     | A             | 1833                                  | COMP+CAN      | 3/16                           | 5.0 TTG     | U                     | A             |
| 2232                                  | COMP+CAN  | 1/4                            | 6.0 TTG     | U                     | A             | 1834                                  | COMP+CAN      | 1/4                            | 6.0 TTG     | U                     | A             |
| 2231                                  | COMP+CAN  | 1/8                            | 3.0 TPG (s) | U                     | A             | 1844                                  | COMP+CAN      | 1/8                            | 3.0 TPG (s) | U                     | A             |
| 2285                                  | COMP+CAN  | 5/32                           | 4.0 TPG (m) | U                     | A             | 1845                                  | COMP+CAN      | 5/32                           | 4.0 TPG (m) | U                     | A             |
| 2286                                  | COMP+CAN  | 3/16                           | 5.0 TPG (s) | U                     | A             | 1846                                  | COMP+CAN      | 3/16                           | 5.0 TPG (s) | U                     | A             |
| <b>Cardinal IG ; Fremont, IN</b>      |           |                                |             |                       |               | <b>Cardinal IG ; Tomah, WI</b>        |               |                                |             |                       |               |
| 2176                                  | COMP+CAN  | 1/8                            | 3.0 TTG     | U                     | A             | 2317                                  | COMP+CAN      | 1/8                            | 3.0 TTG     | U                     | A             |
| 2177                                  | COMP+CAN  | 5/32                           | 4.0 TTG     | U                     | A             | 2318                                  | COMP+CAN      | 5/32                           | 4.0 TTG     | U                     | A             |
| 2178                                  | COMP+CAN  | 3/16                           | 5.0 TTG     | U                     | A             | 2319                                  | COMP+CAN      | 3/16                           | 5.0 TTG     | U                     | A             |
| 2179                                  | COMP+CAN  | 1/4                            | 6.0 TTG     | U                     | A             | 2320                                  | COMP+CAN      | 1/4                            | 6.0 TTG     | U                     | A             |
| 2203                                  | COMP+CAN  | 1/8                            | 3.0 TPG (s) | U                     | A             | 2321                                  | COMP+CAN      | 1/8                            | 3.0 TPG (m) | U                     | A             |
| 2204                                  | COMP+CAN  | 5/32                           | 4.0 TPG (d) | U                     | A             | 2322                                  | COMP+CAN      | 5/32                           | 4.0 TPG (d) | U                     | A             |
| 2205                                  | COMP+CAN  | 3/16                           | 5.0 TPG (s) | U                     | A             | 2323                                  | COMP+CAN      | 3/16                           | 5.0 TPG (d) | 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>Cardinal IG ; Vinton, VA</b>                    |           |                                |               |                       |               | <b>Catalina Tempering ; Easton, PA</b>                                                      |           |                                |             |                       |               |
| 2919                                               | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 4756                                                                                        | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 2920                                               | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 4757                                                                                        | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             |
| 2921                                               | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 4758                                                                                        | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 2922                                               | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 4759                                                                                        | COMPOSITE | 1/8                            | 3.0 TPG (s) | U                     | A             |
| 2923                                               | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             | 4760                                                                                        | COMPOSITE | 5/32                           | 4.0 TPG (d) | U                     | A             |
| 2924                                               | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             | 4761                                                                                        | COMPOSITE | 3/16                           | 5.0 TPG (d) | U                     | A             |
| 3619                                               | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             | <b>Catalina Tempering ; Mount Airy, NC</b>                                                  |           |                                |             |                       |               |
| <b>Cardinal IG ; Waxahachie, TX</b>                |           |                                |               |                       |               | 4578                                                                                        | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 2328                                               | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 4579                                                                                        | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             |
| 2329                                               | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 4580                                                                                        | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 2330                                               | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 4581                                                                                        | COMPOSITE | 1/8                            | 3.0 TPG (s) | U                     | A             |
| 2331                                               | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 4742                                                                                        | COMPOSITE | 5/32                           | 4.0 TPG (m) | U                     | A             |
| 2397                                               | COMPOSITE | 1/8                            | 3.0 TPG (m)   | U                     | A             | 4582                                                                                        | COMPOSITE | 3/16                           | 5.0 TPG (s) | U                     | A             |
| 4091                                               | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             | <b>Catalina Tempering Ohio ; Utica, Ohio</b>                                                |           |                                |             |                       |               |
| 2399                                               | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             | 4620                                                                                        | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| <b>Cardinal LG ; Amery, WI</b>                     |           |                                |               |                       |               | 4621                                                                                        | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             |
| 4840                                               | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             | 4622                                                                                        | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 4841                                               | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 4623                                                                                        | COMPOSITE | 1/8                            | 3.0 TPG (s) | U                     | A             |
| 4842                                               | COMP+CAN  | 5/16                           | 8.0 TTG       | U                     | A             | 4624                                                                                        | COMPOSITE | 5/32                           | 4.0 TPG (s) | U                     | A             |
| 4843                                               | COMP+CAN  | 3/8                            | 10.0 TTG      | U                     | A             | 4625                                                                                        | COMPOSITE | 3/16                           | 5.0 TPG (s) | U                     | A             |
| 4844                                               | COMP+CAN  | 1/2                            | 12.0 TTG      | U                     | A             | <b>Changshu Hard Glass Co., Ltd. ; Jiangsu, China</b>                                       |           |                                |             |                       |               |
| 2976                                               | COMP+CAN  | (S)                            | 5-6 LTG (b)   | (.030) U              | A             | 2904                                                                                        | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 4120                                               | COMP+CAN  | (S)                            | 5 LTG (b)     | .015(C1) U            | B             | 2987                                                                                        | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             |
| 4350                                               | COMP+CAN  | (S)                            | 5-6 LTG (ip)  | (.035) U              | A             | 2988                                                                                        | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 2462                                               | COMP+CAN  | (H)                            | 8-12 LTG (b)  | (.030) U              | A             | <b>Changshu Lier Building Materials Co. Ltd. ; Changshu City Jiangsu China</b>              |           |                                |             |                       |               |
| 4351                                               | COMP+CAN  | (H)                            | 8-12 LTG (ip) | (.035) U              | A             | 4260                                                                                        | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| <b>Cardinal Solar Technologies ; Mazomanie, WI</b> |           |                                |               |                       |               | 4261                                                                                        | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 4780                                               | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | <b>Changshu Mingyang Glass Products Co., Ltd. ; Jiangsu, China</b>                          |           |                                |             |                       |               |
| 4781                                               | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 4845                                                                                        | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 4782                                               | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | <b>Changshu Xingfu Glass Building Material Co., LTD ; Changshu, Jiangsu Province, China</b> |           |                                |             |                       |               |
| 4783                                               | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 4657                                                                                        | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 4821                                               | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 4235                                                                                        | COMPOSITE | 1/4                            | 6.0 TTG     | U                     | A             |
| <b>Cardinal Tempering ; Louisville, KY</b>         |           |                                |               |                       |               | 4237                                                                                        | COMPOSITE | 1/4                            | 6.0 TPG (s) | U                     | A             |
| 3871                                               | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | <b>Changshu Zhongxin Bldg. Mat. Co. ; Changshu City, China</b>                              |           |                                |             |                       |               |
| 3872                                               | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 2432                                                                                        | COMP+CAN  | 1/8                            | 3.0 TTG     | U                     | A             |
| 3873                                               | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 4363                                                                                        | COMP+CAN  | (H)                            | 8 LTG (b)   | (.090) U              | A             |
| 3874                                               | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | <b>Changshu Zhouxing Glass Co. Ltd. ; Zhouhang, Changshu, China</b>                         |           |                                |             |                       |               |
| 3875                                               | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 4936                                                                                        | CPSC ONLY | 1/8                            | 3.0 TTG     | U                     |               |
| <b>Cardinal TG ; Chehalis, WA</b>                  |           |                                |               |                       |               | 4937                                                                                        | CPSC ONLY | 5/32                           | 4.0 TTG     | U                     |               |
| 3455                                               | COMP+CAN  | 1/8                            | 3.0 TTG       | U                     | A             | <b>Chicago Tempered Glass, Inc. ; Chicago, IL</b>                                           |           |                                |             |                       |               |
| 3456                                               | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             | 3086                                                                                        | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             |
| 3458                                               | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             | 3087                                                                                        | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 3459                                               | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 3088                                                                                        | COMPOSITE | 1/4                            | 6.0 TTG     | U                     | A             |
| 4808                                               | COMP+CAN  | 5/16                           | 8.0 TTG (IN)  | U                     | A             | 3089                                                                                        | COMPOSITE | 3/8                            | 10.0 TTG    | U                     | A             |
| 4809                                               | COMP+CAN  | 3/8                            | 10.0 TTG (IN) | U                     | A             | 3090                                                                                        | COMPOSITE | 1/2                            | 12.0 TTG    | U                     | A             |
| <b>Cardinal TG ; Tomah, WI</b>                     |           |                                |               |                       |               | <b>Cleer Vision Tempered Glass ; Elkhart, IN</b>                                            |           |                                |             |                       |               |
| 1804                                               | COMP+CAN  | 1/8                            | 3.0 TTG       | U                     | A             | 4546                                                                                        | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 1805                                               | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             | 4547                                                                                        | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             |
| 1806                                               | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             |                                                                                             |           |                                |             |                       |               |
| 1807                                               | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             |                                                                                             |           |                                |             |                       |               |
| 4881                                               | COMP+CAN  | 5/16                           | 8.0 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>Coastal Glass Distributors ; Charleston, SC</b>                        |           |                                |                |                       |               | <b>Contractors Wardrobe ; Valencia, CA</b>                  |           |                                |                 |                       |               |
| 4328                                                                      | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             | 3464                                                        | COMP+CAN  | 1/8                            | 3.0 TTG         | U                     | A             |
| 4329                                                                      | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             | 3465                                                        | COMP+CAN  | 5/32                           | 4.0 TTG         | U                     | A             |
| 4330                                                                      | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             | 3466                                                        | COMP+CAN  | 3/16                           | 5.0 TTG         | U                     | A             |
| 4331                                                                      | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             | 3467                                                        | COMP+CAN  | 1/4                            | 6.0 TTG         | U                     | A             |
| 4335                                                                      | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             | 3468                                                        | COMP+CAN  | 5/16                           | 8.0 TTG         | U                     | A             |
| 4336                                                                      | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             | 3469                                                        | COMP+CAN  | 3/8                            | 10.0 TTG        | U                     | A             |
| 4332                                                                      | COMPOSITE | 1/8                            | 3.0 TPG (s)    | U                     | A             | 3470                                                        | COMP+CAN  | 1/2                            | 12.0 TTG        | U                     | A             |
| 4333                                                                      | COMPOSITE | 5/32                           | 4.0 TPG (d)    | U                     | A             | 3472                                                        | COMP+CAN  | 3/4                            | 19.0 TTG        | U                     | A             |
| 4334                                                                      | COMPOSITE | 3/16                           | 5.0 TPG (d)    | U                     | A             | 3473                                                        | COMP+CAN  | 1/8                            | 3.0 TPG (m)     | U                     | A             |
| 4338                                                                      | COMPOSITE | 1/4                            | 6.0 TPG (m)    | U                     | A             | 3474                                                        | COMP+CAN  | 5/32                           | 4.0 TPG (d)     | U                     | A             |
| 4339                                                                      | COMPOSITE | 3/8                            | 10.0 TPG (s)   | U                     | A             | 3475                                                        | COMP+CAN  | 3/16                           | 5.0 TPG (d)     | U                     | A             |
| 4337                                                                      | COMPOSITE | (H)                            | 8, 12 LTG (lu) | (.060) U              | A             | 3476                                                        | COMP+CAN  | 1/4                            | 6.0 TPG (m)     | U                     | A             |
| <b>Columbia Commercial Building Products, Acquisitions ; Rockwall, TX</b> |           |                                |                |                       |               | 3477                                                        | COMP+CAN  | 3/8                            | 10.0 TPG (s)    | U                     | A             |
| 4919                                                                      | COMP+CAN  | 1/8                            | 3.0 TTG        | U                     | A             | <b>Coral Industries Glass Division ; Tuscaloosa, AL</b>     |           |                                |                 |                       |               |
| 4920                                                                      | COMP+CAN  | 3/16                           | 5.0 TTG        | U                     | A             | 3420                                                        | COMPOSITE | 1/8                            | 3.0 TTG         | U                     | A             |
| 4921                                                                      | COMP+CAN  | 1/4                            | 6.0 TTG        | U                     | A             | 1910                                                        | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| 5022                                                                      | COMP+CAN  | 3/8                            | 10.0 TTG       | U                     | A             | 1911                                                        | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 5023                                                                      | COMP+CAN  | 1/2                            | 12.0 TTG       | U                     | A             | 2144                                                        | COMPOSITE | 3/8                            | 10.0 TTG        | U                     | A             |
| <b>Commercial Insulating Glass Co. ; Cumberland City, TN</b>              |           |                                |                |                       |               | 2145                                                        | COMPOSITE | 1/2                            | 12.0 TTG        | U                     | A             |
| 3806                                                                      | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             | 2644                                                        | COMPOSITE | 3/4                            | 19.0 TTG        | U                     | A             |
| 3807                                                                      | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             | 1964                                                        | COMPOSITE | 3/16                           | 5.0 TPG (d)     | U                     | A             |
| 3808                                                                      | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             | 2944                                                        | COMPOSITE | 1/4                            | 6.0 TPG (d)     | U                     | A             |
| <b>Commercial Insulating Glass Co. ; Sarasota, FL</b>                     |           |                                |                |                       |               | 2945                                                        | COMPOSITE | 3/8                            | 10.0 TPG (d)    | U                     | A             |
| 1889                                                                      | COMPOSITE | 1/8                            | 3.0 TTG        | 30x76 A               |               | 3817                                                        | COMPOSITE | 1/2                            | 12.0 TPG (m)    | U                     | A             |
| 1890                                                                      | COMPOSITE | 3/16                           | 5.0 TTG        | 30x76 A               |               | <b>Cuda Glass &amp; Metals ; Wixom, MI</b>                  |           |                                |                 |                       |               |
| 1891                                                                      | COMPOSITE | 1/4                            | 6.0 TTG        | 30x76 A               |               | 4198                                                        | COMPOSITE | 1/8                            | 3.0 TTG         | U                     | A             |
| <b>Consolidated Glass Corp. ; New Castle, PA</b>                          |           |                                |                |                       |               | 4199                                                        | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| 1998                                                                      | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             | 4200                                                        | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 1999                                                                      | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             | 4201                                                        | COMPOSITE | 3/8                            | 10.0 TTG        | U                     | A             |
| 2005                                                                      | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             | 4202                                                        | COMPOSITE | 1/2                            | 12.0 TTG        | U                     | A             |
| 2002                                                                      | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             | 4203                                                        | COMPOSITE | 5/8                            | 16.0 TTG        | U                     | A             |
| 3635                                                                      | COMPOSITE | 5/16                           | 8.0 TTG        | U                     | A             | 4204                                                        | COMPOSITE | 3/4                            | 19.0 TTG        | U                     | A             |
| 2003                                                                      | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             | 4924                                                        | COMPOSITE | (H)                            | 12-16+ LTG (ip) | (.030) U              | A             |
| 2004                                                                      | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             | <b>Custom Glass Products Inc. ; Weston, WI</b>              |           |                                |                 |                       |               |
| 2355                                                                      | COMPOSITE | 5/32                           | 4.0 TPG (m)    | U                     | A             | 4002                                                        | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 2354                                                                      | COMPOSITE | 3/16                           | 5.0 TPG (m)    | U                     | A             | <b>Custom Glass Solutions Millbury Corp. ; Millbury, OH</b> |           |                                |                 |                       |               |
| 4714                                                                      | COMPOSITE | 1/4                            | 6.0 TPG (m)    | U                     | A             | 1575                                                        | COMPOSITE | 5/32                           | 4.0 TTG         | U                     | A             |
| 4785                                                                      | COMPOSITE | 3/8                            | 10.0 TPG (s)   | U                     | A             | 1576                                                        | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| <b>Consolidated Glass Holdings, Inc. ; S. Easton, MA</b>                  |           |                                |                |                       |               | 1577                                                        | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 3001                                                                      | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             | <b>D3 Glass, LLC ; Fort Myers, FL</b>                       |           |                                |                 |                       |               |
| 1871                                                                      | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             | 4834                                                        | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| 1035                                                                      | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             | 4795                                                        | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 1036                                                                      | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             | 4792                                                        | COMPOSITE | 3/8                            | 10.0 TTG        | U                     | A             |
| 1037                                                                      | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             | 4793                                                        | COMPOSITE | 1/2                            | 12.0 TTG        | U                     | A             |
| 1939                                                                      | COMPOSITE | 3/16                           | 5.0 TPG (s)    | U                     | A             | 4835                                                        | COMPOSITE | 3/4                            | 19.0 TTG        | U                     | A             |
| <b>Contour Industries, Inc. ; Surgoinsville, TN</b>                       |           |                                |                |                       |               | 4791                                                        | COMPOSITE | 3/8                            | 10.0 TPG (m)    | U                     | A             |
| 1680                                                                      | COMP+CAN  | 1/8                            | 3.0 TTG        | U                     | A             | <b>Dallas Flat Glass ; Carrollton, TX</b>                   |           |                                |                 |                       |               |
| 4285                                                                      | COMP+CAN  | 5/32                           | 4.0 TTG        | U                     | A             | 4790                                                        | COMPOSITE | 1/8                            | 3.0 TTG         | U                     | A             |
| 1678                                                                      | COMP+CAN  | 3/16                           | 5.0 TTG        | U                     | A             | 4763                                                        | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| 1677                                                                      | COMP+CAN  | 1/4                            | 6.0 TTG        | U                     | A             | 3701                                                        | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 4701                                                                      | COMP+CAN  | 5/16                           | 8.0 TTG        | U                     | A             | 4566                                                        | COMPOSITE | 3/8                            | 10.0 TTG        | U                     | A             |
| 4702                                                                      | COMP+CAN  | 3/8                            | 10.0 TTG       | U                     | A             | 4567                                                        | COMPOSITE | 1/2                            | 12.0 TTG        | U                     | A             |
| 4703                                                                      | COMP+CAN  | 1/8                            | 3.0 TPG (s)    | U                     | A             |                                                             |           |                                |                 |                       |               |
| 4704                                                                      | COMP+CAN  | 5/32                           | 4.0 TPG (s)    | U                     | A             |                                                             |           |                                |                 |                       |               |
| 4705                                                                      | COMP+CAN  | 3/16                           | 5.0 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>Denver Glass Interiors, Inc. ; Englewood, CO</b>                     |           |                                |              |                       |               | <b>Dongguan Dongfa Glass Product Co., Ltd ; Dongguan City, Guangdong, China</b>      |           |                                |               |                       |               |
| 3865                                                                    | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4132                                                                                 | ANSI ONLY | 5/16                           | 8.0 TTG       | U                     | A             |
| 3866                                                                    | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4125                                                                                 | ANSI ONLY | 3/8                            | 10.0 TTG      | U                     | A             |
| 3867                                                                    | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 4126                                                                                 | ANSI ONLY | 1/2                            | 12.0 TTG      | U                     | A             |
| 3868                                                                    | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4123                                                                                 | COMPOSITE | (H)                            | 8-12 LTG (b)  | (.030) U              | A             |
| 4101                                                                    | COMPOSITE | 3/16                           | 5.0 TPG (s)  | U                     | A             | 4124                                                                                 | COMPOSITE | (H)                            | 16 LTG (b)    | (.030) U              | A             |
| 4507                                                                    | COMPOSITE | 1/4                            | 6.0 TPG (s)  | U                     | A             | <b>Dongguan Taisheng Glass Co., Ltd. ; Dongguan City, Guang Dong China</b>           |           |                                |               |                       |               |
| 4508                                                                    | COMPOSITE | 3/8                            | 10.0 TPG (s) | U                     | A             | 4870                                                                                 | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| <b>Deqing Sanxing Plastic Chemical Co. Ltd. ; Deqing, Huzhou, China</b> |           |                                |              |                       |               | 4872                                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4055                                                                    | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 4873                                                                                 | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 4056                                                                    | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | <b>Dongguan Trillion Aluminum Glass Co., Ltd ; Dongguan City, Guangdong Province</b> |           |                                |               |                       |               |
| 4057                                                                    | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 5028                                                                                 | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 4146                                                                    | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 5029                                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4147                                                                    | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 5030                                                                                 | COMPOSITE | 5/32                           | 4.0 TPG (s)   | U                     | A             |
| <b>Diamond Sea Glaze ; Langley, BC Canada</b>                           |           |                                |              |                       |               | 5031                                                                                 | COMPOSITE | 1/4                            | 6.0 TPG (s)   | U                     | A             |
| 4499                                                                    | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | <b>Downey Glass Industries, LLC ; Pompano Beach, FL</b>                              |           |                                |               |                       |               |
| 4500                                                                    | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 2661                                                                                 | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 4501                                                                    | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 2662                                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4502                                                                    | COMPOSITE | 5/16                           | 8.0 TTG      | U                     | A             | 2663                                                                                 | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4503                                                                    | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 2664                                                                                 | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 4504                                                                    | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 2665                                                                                 | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |
| 4505                                                                    | COMPOSITE | *                              | 15.0 TTG (3) | U                     | A             | 3487                                                                                 | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             |
| 4506                                                                    | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             | 4626                                                                                 | COMPOSITE | 3/8                            | 10.0 TPG (s)  | U                     | A             |
| <b>Dillmeier Enterprise, Inc. ; Van Buren, AR</b>                       |           |                                |              |                       |               | <b>Eckelt Glas GmbH ; Steyr, Austria</b>                                             |           |                                |               |                       |               |
| 4838                                                                    | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 2850                                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3912                                                                    | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 2851                                                                                 | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 3913                                                                    | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 2852                                                                                 | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4839                                                                    | COMPOSITE | 5/16                           | 8.0 TTG      | U                     | A             | 2853                                                                                 | COMPOSITE | *                              | 12.0 TTG (3)  | U                     | A             |
| 3914                                                                    | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 2854                                                                                 | COMPOSITE | *                              | 15.0 TTG (3)  | U                     | A             |
| 3915                                                                    | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 2855                                                                                 | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |
| 3916                                                                    | COMPOSITE | 5/8                            | 16.0 TTG     | U                     | A             | <b>EFCO Corporation ; Monett, MO</b>                                                 |           |                                |               |                       |               |
| 3917                                                                    | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             | 4121                                                                                 | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| <b>Dlubak Corporation ; Blairsville, PA</b>                             |           |                                |              |                       |               | 1901                                                                                 | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 3017                                                                    | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 1902                                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3018                                                                    | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4154                                                                                 | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 3019                                                                    | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             | 2143                                                                                 | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             |
| <b>Dolphin Glass Specialists, LLC ; Hialeah, FL</b>                     |           |                                |              |                       |               | <b>EFI ; Kernersville, NC</b>                                                        |           |                                |               |                       |               |
| 4729                                                                    | COMPOSITE | (H)                            | 12 LTG (b)   | (.030) U              | A             | 5014                                                                                 | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             |
| <b>Dong Sung Glass Korea, Co., Ltd. ; Inchon, Korea</b>                 |           |                                |              |                       |               | 5026                                                                                 | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             |
| 2709                                                                    | COMP+CAN  | 3/16                           | 5.0 TTG      | U                     | A             | <b>Engineered Glass Products, L.L.C. ; Chicago, IL</b>                               |           |                                |               |                       |               |
| <b>Dongguan CSG Architectural Glass Co., Ltd. ; Dongguan City China</b> |           |                                |              |                       |               | 4388                                                                                 | COMPOSITE | 1/8                            | 3.0 TTG       | L                     | A             |
| 3932                                                                    | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 2589                                                                                 | COMPOSITE | 5/32                           | 4.0 TTG       | 30x72 A               |               |
| 3933                                                                    | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 2590                                                                                 | COMPOSITE | 3/16                           | 5.0 TTG       | 30x72 A               |               |
| 3934                                                                    | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 2698                                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | 30x72 A               |               |
| 3935                                                                    | COMPOSITE | 5/16                           | 8.0 TTG      | U                     | A             | <b>Fairis C.A. ; Ambato, Tungurahua, Ecuador</b>                                     |           |                                |               |                       |               |
| 3936                                                                    | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 4425                                                                                 | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 3937                                                                    | COMPOSITE | *                              | 12.0 TTG (3) | U                     | A             | 4426                                                                                 | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 3938                                                                    | COMPOSITE | *                              | 15.0 TTG (3) | U                     | A             | 4427                                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3939                                                                    | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             | 4428                                                                                 | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 4167                                                                    | COMPOSITE | (H)                            | 8-12 LTG (b) | (.030) U              | A             | 4429                                                                                 | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
|                                                                         |           |                                |              |                       |               | 4722                                                                                 | COMPOSITE | (S)                            | 6 LTG (b)     | (.030) U              | A             |
|                                                                         |           |                                |              |                       |               | 4430                                                                                 | COMPOSITE | (H)                            | 10-12 LTG (b) | (.030) 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>Flat Glass Distributors ; Jacksonville, FL</b>                                  |               |                                |                 |                       |               | <b>Glass Dynamics, Inc. ; Stoneville, NC</b>           |               |                                |             |                       |               |
| 3822                                                                               | COMPOSITE     | 1/8                            | 3.0 TTG         | U                     | A             | 2728                                                   | COMPOSITE     | 1/8                            | 3.0 TTG     | U                     | A             |
| 3823                                                                               | COMPOSITE     | 3/16                           | 5.0 TTG         | U                     | A             | 2730                                                   | COMPOSITE     | 3/16                           | 5.0 TTG     | U                     | A             |
| 3824                                                                               | COMPOSITE     | 1/4                            | 6.0 TTG         | U                     | A             | 2732                                                   | COMPOSITE     | 1/4                            | 6.0 TTG     | U                     | A             |
| 3825                                                                               | COMPOSITE     | 3/8                            | 10.0 TTG        | U                     | A             | 2729                                                   | COMPOSITE     | 3/8                            | 10.0 TTG    | U                     | A             |
| 3826                                                                               | COMPOSITE     | 1/2                            | 12.0 TTG        | U                     | A             | 2733                                                   | COMPOSITE     | 1/2                            | 12.0 TTG    | U                     | A             |
| 3828                                                                               | COMPOSITE     | 1/8                            | 3.0 TPG (m)     | U                     | A             | 2731                                                   | COMPOSITE     | 5/8                            | 16.0 TTG    | U                     | A             |
| 3829                                                                               | COMPOSITE     | 5/32                           | 4.0 TPG (d)     | U                     | A             | 2734                                                   | COMPOSITE     | 3/4                            | 19.0 TTG    | U                     | A             |
| 3830                                                                               | COMPOSITE     | 3/16                           | 5.0 TPG (m)(IN) | U                     | A             | 4413                                                   | COMPOSITE (S) | 6 LTG (ip)                     | (.035)      | U                     | A             |
| 4638                                                                               | COMPOSITE     | 3/8                            | 10.0 TPG (s)    | U                     | A             | 4375                                                   | COMPOSITE (S) | 6 LTG (b)                      | (.030)      | U                     | A             |
| <b>Foshan Nanhai Gangsheng Tempered Glass Factory ;<br/>Foshan Guangdong China</b> |               |                                |                 |                       |               | 4376                                                   | COMPOSITE (H) | 8-16+ LTG (b)                  | (.030)      | U                     | A             |
| 4673                                                                               | COMP+CAN      | 5/32                           | 4.0 TTG         | U                     | A             | 4414                                                   | COMPOSITE (H) | 8-16+ LTG (ip)                 | (.035)      | U                     | A             |
| 4669                                                                               | COMP+CAN      | 3/16                           | 5.0 TTG         | U                     | A             | <b>Glass Enterprises, Inc. ; Bensalem, PA</b>          |               |                                |             |                       |               |
| 4670                                                                               | COMP+CAN      | 1/4                            | 6.0 TTG         | U                     | A             | 4628                                                   | COMPOSITE     | 3/16                           | 5.0 TTG     | U                     | A             |
| 4671                                                                               | COMP+CAN      | 5/16                           | 8.0 TTG         | U                     | A             | 4629                                                   | COMPOSITE     | 1/4                            | 6.0 TTG     | U                     | A             |
| 4672                                                                               | COMP+CAN      | 3/8                            | 10.0 TTG        | U                     | A             | <b>Glasser SA de CV ; Estado de Mexico, Mexico</b>     |               |                                |             |                       |               |
| <b>Galaxy Glass &amp; Stone ; Fairfield, NJ</b>                                    |               |                                |                 |                       |               | 4541                                                   | COMPOSITE     | 1/8                            | 3.0 TTG     | U                     | A             |
| 3661                                                                               | COMPOSITE (H) | 12-16+ LTG (lu)                | (.060)          | U                     | A             | <b>Glasswerks LA, Inc. ; South Gate, CA</b>            |               |                                |             |                       |               |
| <b>Garibaldi Glass Ind. Inc. ; Burnaby, BC</b>                                     |               |                                |                 |                       |               | 4804                                                   | COMPOSITE     | 1/8                            | 3.0 TTG     | U                     | A             |
| 4419                                                                               | COMPOSITE     | 1/4                            | 6.0 TTG         | U                     | A             | 4805                                                   | COMPOSITE     | 3/16                           | 5.0 TTG     | U                     | A             |
| 4420                                                                               | COMPOSITE     | 3/8                            | 10.0 TTG        | U                     | A             | 4806                                                   | COMPOSITE     | 1/4                            | 6.0 TTG     | U                     | A             |
| 4421                                                                               | COMPOSITE     | 1/2                            | 12.0 TTG        | U                     | A             | <b>Glaz-Tech Industries ; Englewood, CO</b>            |               |                                |             |                       |               |
| 4422                                                                               | COMPOSITE     | 3/4                            | 19.0 TTG        | U                     | A             | 2185                                                   | COMPOSITE     | 1/8                            | 3.0 TTG     | U                     | A             |
| <b>General Glass ; Portland, OR</b>                                                |               |                                |                 |                       |               | 2186                                                   | COMPOSITE     | 3/16                           | 5.0 TTG     | U                     | A             |
| 4031                                                                               | COMPOSITE     | 1/8                            | 3.0 TTG         | U                     | A             | 2187                                                   | COMPOSITE     | 1/4                            | 6.0 TTG     | U                     | A             |
| 4032                                                                               | COMPOSITE     | 5/32                           | 4.0 TTG         | U                     | A             | 2188                                                   | COMPOSITE     | 3/8                            | 10.0 TTG    | U                     | A             |
| 4033                                                                               | COMPOSITE     | 3/16                           | 5.0 TTG         | U                     | A             | 2189                                                   | COMPOSITE     | 1/2                            | 12.0 TTG    | U                     | A             |
| 4034                                                                               | COMPOSITE     | 1/4                            | 6.0 TTG         | U                     | A             | 2190                                                   | COMPOSITE     | 3/4                            | 19.0 TTG    | U                     | A             |
| <b>GGI Glass Distributors Corp. ; Secaucus, NJ</b>                                 |               |                                |                 |                       |               | 2193                                                   | COMPOSITE     | 3/16                           | 5.0 TPG (s) | U                     | A             |
| 2928                                                                               | COMPOSITE     | 5/32                           | 4.0 TTG         | U                     | A             | <b>Glenny Glass Co. ; Milford, OH</b>                  |               |                                |             |                       |               |
| 2226                                                                               | COMPOSITE     | 3/16                           | 5.0 TTG         | U                     | A             | 3841                                                   | COMPOSITE     | 1/8                            | 3.0 TTG     | U                     | A             |
| 2227                                                                               | COMPOSITE     | 1/4                            | 6.0 TTG         | U                     | A             | 3843                                                   | COMPOSITE     | 3/16                           | 5.0 TTG     | U                     | A             |
| 4248                                                                               | COMPOSITE     | 5/16                           | 8.0 TTG         | U                     | A             | 3844                                                   | COMPOSITE     | 1/4                            | 6.0 TTG     | U                     | A             |
| 2282                                                                               | COMPOSITE     | 3/8                            | 10.0 TTG        | U                     | A             | 3845                                                   | COMPOSITE     | 3/8                            | 10.0 TTG    | U                     | A             |
| 2228                                                                               | COMPOSITE     | 1/2                            | 12.0 TTG        | U                     | A             | 3846                                                   | COMPOSITE     | 1/2                            | 12.0 TTG    | U                     | A             |
| 3857                                                                               | COMPOSITE     | 5/8                            | 16.0 TTG        | U                     | A             | <b>Global Security Glazing ; Selma, AL</b>             |               |                                |             |                       |               |
| 3858                                                                               | COMPOSITE     | 3/4                            | 19.0 TTG        | U                     | A             | 4764                                                   | COMP+CAN      | 1/8                            | 3.0 TTG     | U                     | A             |
| 4774                                                                               | COMPOSITE     | 1                              | 25.0 TTG        | U                     | A             | 4765                                                   | COMP+CAN      | 3/16                           | 5.0 TTG     | U                     | A             |
| 3970                                                                               | COMPOSITE     | 5/32                           | 4.0 TPG (s)     | U                     | A             | 4766                                                   | COMP+CAN      | 1/4                            | 6.0 TTG     | U                     | A             |
| 3971                                                                               | COMPOSITE     | 3/16                           | 5.0 TPG (s)     | U                     | A             | 4767                                                   | COMP+CAN      | 3/8                            | 10.0 TTG    | U                     | A             |
| 3972                                                                               | COMPOSITE     | 1/4                            | 6.0 TPG (s)     | U                     | A             | 4768                                                   | COMP+CAN      | 1/2                            | 12.0 TTG    | U                     | A             |
| 3973                                                                               | COMPOSITE     | 3/8                            | 10.0 TPG (s)    | U                     | A             | 4769                                                   | COMP+CAN (S)  | 6 LTG (b)                      | (.030)      | U                     | A             |
| 3974                                                                               | COMPOSITE     | 1/2                            | 12.0 TPG (s)    | U                     | A             | 4770                                                   | COMP+CAN (H)  | 12 LTG (b)                     | (.060)      | U                     | A             |
| <b>Glass Design of Miami, Inc. ; Miami, FL</b>                                     |               |                                |                 |                       |               | <b>Goldray Industries Ltd. ; Calgary, AB Canada</b>    |               |                                |             |                       |               |
| 3453                                                                               | COMPOSITE     | 1/4                            | 6.0 TTG         | U                     | A             | 2444                                                   | COMP+CAN      | 1/8                            | 3.0 TTG     | U                     | A             |
| 3454                                                                               | COMPOSITE     | 3/8                            | 10.0 TTG        | U                     | A             | 2445                                                   | COMP+CAN      | 5/32                           | 4.0 TTG     | U                     | A             |
| 3607                                                                               | COMPOSITE     | 1/2                            | 12.0 TTG        | U                     | A             | 2446                                                   | COMP+CAN      | 3/16                           | 5.0 TTG     | U                     | A             |
|                                                                                    |               |                                |                 |                       |               | 2447                                                   | COMP+CAN      | 1/4                            | 6.0 TTG     | U                     | A             |
|                                                                                    |               |                                |                 |                       |               | 2448                                                   | COMP+CAN      | 3/8                            | 10.0 TTG    | U                     | A             |
|                                                                                    |               |                                |                 |                       |               | 2449                                                   | COMP+CAN      | 1/2                            | 12.0 TTG    | U                     | A             |
|                                                                                    |               |                                |                 |                       |               | <b>Grand Glass Windows and Doors Inc. ; Mobile, AL</b> |               |                                |             |                       |               |
|                                                                                    |               |                                |                 |                       |               | 4907                                                   | COMPOSITE     | 1/8                            | 3.0 TTG     | U                     | A             |
|                                                                                    |               |                                |                 |                       |               | 4908                                                   | COMPOSITE     | 5/32                           | 4.0 TTG     | U                     | A             |
|                                                                                    |               |                                |                 |                       |               | 4909                                                   | COMPOSITE     | 1/4                            | 6.0 TTG     | 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>GSA Armourplate ; Cape Town, South Africa</b>               |           |                                |                    |                       |               | <b>Guardian Industries Corp. ; Geneva, NY</b>                     |           |                                |              |                       |               |
| 4887                                                           | COMPOSITE | 5/32                           | 4.0 TTG            | U                     | A             | 2259                                                              | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             |
| <b>Guangdong Golden Glass Technologies ; Guang Dong, China</b> |           |                                |                    |                       |               | 2260                                                              | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             |
| 3941                                                           | COMPOSITE | 1/4                            | 6.0 TTG            | U                     | A             | 2261                                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             |
| 3942                                                           | COMPOSITE | 5/16                           | 8.0 TTG            | U                     | A             | 2262                                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             |
| 3943                                                           | COMPOSITE | 3/8                            | 10.0 TTG           | U                     | A             | 3672                                                              | COMPOSITE | 5/16                           | 8.0 TTG      | U                     | A             |
| 3944                                                           | COMPOSITE | 1/2                            | 12.0 TTG           | U                     | A             | 2519                                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             |
| 3945                                                           | COMPOSITE | *                              | 15.0 TTG (3)       | U                     | A             | 3673                                                              | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             |
| 3946                                                           | COMPOSITE | 3/4                            | 19.0 TTG           | U                     | A             | <b>Guardian Industries Corp. ; Kingsburg, CA</b>                  |           |                                |              |                       |               |
| 4535                                                           | COMPOSITE | 7/8                            | 22.0 TTG           | U                     | A             | 968                                                               | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             |
| 3947                                                           | COMPOSITE | (H)                            | 10-16+ LTG (b)     | (.030) U              | A             | 969                                                               | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             |
| 4723                                                           | COMPOSITE | (H)                            | 16+ LTG (ip)       | (.015) U              | A             | 970                                                               | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             |
| <b>Guardian Industries Corp. ; Carleton, MI</b>                |           |                                |                    |                       |               | 971                                                               | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             |
| 933                                                            | COMPOSITE | 1/8                            | 3.0 TTG            | U                     | A             | 1303                                                              | COMPOSITE | 1/8                            | 3.0 TPG (d)  | U                     | A             |
| 934                                                            | COMPOSITE | 5/32                           | 4.0 TTG            | U                     | A             | 1301                                                              | COMPOSITE | 5/32                           | 4.0 TPG (m)  | U                     | A             |
| 631                                                            | COMPOSITE | 3/16                           | 5.0 TTG            | U                     | A             | 1304                                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             |
| 131                                                            | COMPOSITE | 1/4                            | 6.0 TTG            | U                     | A             | 1882                                                              | COMPOSITE | 1/4                            | 6.0 TPG (m)  | U                     | A             |
| <b>Guardian Industries Corp. ; Corsicana, TX</b>               |           |                                |                    |                       |               | <b>Guardian Industries Corp. ; Reedley, CA</b>                    |           |                                |              |                       |               |
| 1248                                                           | COMPOSITE | 1/8                            | 3.0 TTG            | U                     | A             | 4360                                                              | COMPOSITE | (S)                            | 5-6 LTG (b)  | (.030) U              | A             |
| 1249                                                           | COMPOSITE | 5/32                           | 4.0 TTG            | U                     | A             | 4583                                                              | COMPOSITE | (S)                            | 5-6 LTG (b)  | (.015)(C1) U          | B             |
| 1250                                                           | COMPOSITE | 3/16                           | 5.0 TTG            | U                     | A             | 4557                                                              | COMPOSITE | (H)                            | 8-12 LTG (b) | (.030) U              | A             |
| 1251                                                           | COMPOSITE | 1/4                            | 6.0 TTG            | U                     | A             | <b>Guardian Industries Corp. ; Richburg, SC</b>                   |           |                                |              |                       |               |
| 1826                                                           | COMPOSITE | 5/16                           | 8.0 TTG            | U                     | A             | 1630                                                              | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             |
| 1253                                                           | COMPOSITE | 3/8                            | 10.0 TTG           | U                     | A             | 1631                                                              | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             |
| 1803                                                           | COMPOSITE | 1/2                            | 12.0 TTG           | U                     | A             | 1632                                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             |
| 2458                                                           | COMPOSITE | 1/8                            | 3.0 TPG (m)        | U                     | A             | 1633                                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             |
| 2459                                                           | COMPOSITE | 5/32                           | 4.0 TPG (m)        | U                     | A             | 1634                                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             |
| 2460                                                           | COMPOSITE | 3/16                           | 5.0 TPG (m)        | U                     | A             | 1683                                                              | COMPOSITE | 1/8                            | 3.0 TPG (m)  | U                     | A             |
| <b>Guardian Industries Corp. ; DeWitt, IA</b>                  |           |                                |                    |                       |               | 1635                                                              | COMPOSITE | 5/32                           | 4.0 TPG (m)  | U                     | A             |
| 2020                                                           | COMPOSITE | 1/8                            | 3.0 TTG            | U                     | A             | 1865                                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             |
| 2021                                                           | COMPOSITE | 5/32                           | 4.0 TTG            | U                     | A             | 3002                                                              | COMPOSITE | 1/4                            | 6.0 TPG (m)  | U                     | A             |
| 2022                                                           | COMPOSITE | 3/16                           | 5.0 TTG            | U                     | A             | 3003                                                              | COMPOSITE | 3/8                            | 10.0 TPG (m) | U                     | A             |
| 2023                                                           | COMPOSITE | 1/4                            | 6.0 TTG            | U                     | A             | <b>Guardian Webster, Inc. ; Webster, MA</b>                       |           |                                |              |                       |               |
| 2024                                                           | COMPOSITE | 5/16                           | 8.0 TTG            | U                     | A             | 300                                                               | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             |
| 2545                                                           | COMPOSITE | 3/8                            | 10.0 TTG           | U                     | A             | 1607                                                              | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             |
| 2649                                                           | COMPOSITE | 1/2                            | 12.0 TTG           | U                     | A             | 1216                                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             |
| <b>Guardian Industries Corp. ; Galax, VA</b>                   |           |                                |                    |                       |               | 662                                                               | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             |
| 4604                                                           | COMP+CAN  | 1/8                            | 3.0 TTG            | U                     | A             | 471                                                               | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             |
| 4605                                                           | COMP+CAN  | 5/32                           | 4.0 TTG            | U                     | A             | 1235                                                              | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             |
| 4606                                                           | COMP+CAN  | 3/16                           | 5.0 TTG            | U                     | A             | 3604                                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             |
| 4607                                                           | COMP+CAN  | 1/4                            | 6.0 TTG            | U                     | A             | 2451                                                              | COMPOSITE | 5/32                           | 4.0 TPG (m)  | U                     | A             |
| 4608                                                           | COMP+CAN  | 5/16                           | 8.0 TTG            | U                     | A             | 2603                                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             |
| 4609                                                           | COMP+CAN  | 3/8                            | 10.0 TTG           | U                     | A             | 3024                                                              | COMPOSITE | 7/32                           | 5.5 TPG (s)  | U                     | A             |
| 4610                                                           | COMP+CAN  | 1/2                            | 12.0 TTG           | U                     | A             | 4656                                                              | COMPOSITE | 1/4                            | 6.0 TPG (s)  | U                     | A             |
| 4611                                                           | COMP+CAN  | 3/4                            | 19.0 TTG (IN)      | U                     | A             | <b>Gulf Glass Industries, LLC ; Sharjah, United Arab Emirates</b> |           |                                |              |                       |               |
| 4612                                                           | COMP+CAN  | 1/8                            | 3.0 TPG (s)        | U                     | A             | 4796                                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             |
| 4613                                                           | COMP+CAN  | 3/16                           | 5.0 TPG (m)        | U                     | A             | 4797                                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             |
| 4627                                                           | COMP+CAN  | 3/8                            | 10.0 TPG (s)       | U                     | A             | 4798                                                              | COMPOSITE | *                              | 12.0 TTG (3) | U                     | A             |
| 4632                                                           | COMP+CAN  | (S)                            | 4 LTG (b)          | .015(C1) U            | B             | 4799                                                              | COMPOSITE | (H)                            | 8 LTG (b)    | (.030) U              | A             |
| 4633                                                           | COMP+CAN  | (S)                            | 6 LTG (b)          | (.030) U              | A             | <b>Hartung Glass Industries ; Wilsonville, OR</b>                 |           |                                |              |                       |               |
| 4800                                                           | COMP+CAN  | (S)                            | 6 LTG (b)(p)(el)6  | (.075) U              | A             | 4686                                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             |
| 4658                                                           | COMP+CAN  | (H)                            | 8 LTG (b)          | (.030) U              | A             | 4631                                                              | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             |
| 4829                                                           | COMP+CAN  | (H)                            | 10 LTG (b)(p)(el)6 | (.075) U              | A             | <b>Hartung Glass Industries Lami ; Langley, BC Canada</b>         |           |                                |              |                       |               |
|                                                                |           |                                |                    |                       |               | 4431                                                              | COMPOSITE | (H)                            | 16+ LTG (ip) | (.060) 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>Industrial Tempering Glass ; Brooklyn, NY</b>              |           |                                |               |                       |               | <b>Jiangmen SYP Engineering Glass Co., Ltd ; Jiangmen, China</b> |           |                                |               |                       |               |
| 3386                                                          | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 4303                                                             | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             |
| 3387                                                          | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 4304                                                             | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             |
| 3418                                                          | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 4305                                                             | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             |
| 3419                                                          | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 4306                                                             | COMP+CAN  | 5/16                           | 8.0 TTG       | U                     | A             |
| 4240                                                          | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             | 4307                                                             | COMP+CAN  | 3/8                            | 10.0 TTG      | U                     | A             |
| <b>Insulated Glass of America, Inc. ; Dallas, NC</b>          |           |                                |               |                       |               | 4308                                                             | COMP+CAN  | 1/2                            | 12.0 TTG      | U                     | A             |
| 3859                                                          | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 4309                                                             | COMP+CAN  | *                              | 15.0 TTG (3)  | U                     | A             |
| 3860                                                          | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 4310                                                             | COMP+CAN  | 3/4                            | 19.0 TTG      | U                     | A             |
| 3861                                                          | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 5052                                                             | COMP+CAN  | 1/4                            | 6.0 TBG       | U                     | A             |
| 3862                                                          | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 5053                                                             | COMP+CAN  | 5/16                           | 8.0 TBG       | U                     | A             |
| 3863                                                          | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 5054                                                             | COMP+CAN  | 3/8                            | 10.0 TBG      | U                     | A             |
| 3864                                                          | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 5055                                                             | COMP+CAN  | 1/2                            | 12.0 TBG      | U                     | A             |
| <b>Insulite Glass Co., Inc. ; Olathe, KS</b>                  |           |                                |               |                       |               | 4312                                                             | COMP+CAN  | (H)                            | 8-16+ LTG (b) | (.030) U              | A             |
| 4473                                                          | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 4575                                                             | COMP+CAN  | (H)                            | 16+ LTG (ip)  | (.060) U              | A             |
| 4474                                                          | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | <b>Jiaxing Joinbath Corporation ; Jiaxing, Zhejiang, China</b>   |           |                                |               |                       |               |
| 3714                                                          | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 4828                                                             | COMPOSITE | 3/16                           | 5.0 TBG       | U                     | A             |
| 3715                                                          | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | <b>JYC Glass Co. Ltd. ; Zhangcha, Foshan China</b>               |           |                                |               |                       |               |
| 3716                                                          | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 3957                                                             | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 3717                                                          | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 3958                                                             | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 3718                                                          | COMPOSITE | (S)                            | 6 LTG (b)     | (.030) U              | A             | 3959                                                             | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 3720                                                          | COMPOSITE | (H)                            | 8 LTG (b)     | (.060) U              | A             | 3960                                                             | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3723                                                          | COMPOSITE | (H)                            | 10-12 LTG (b) | (.030) U              | A             | 3961                                                             | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| <b>Insulpane of Connecticut Ind. ; Hamden, CT</b>             |           |                                |               |                       |               | 3962                                                             | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4523                                                          | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 3963                                                             | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| <b>Integral Seal Mfg. Inc. ; Concord, ON Canada</b>           |           |                                |               |                       |               | 4161                                                             | COMPOSITE | 5/32                           | 4.0 TPG (m)   | U                     | A             |
| 4682                                                          | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             | 4162                                                             | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             |
| 4683                                                          | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             | 4163                                                             | COMPOSITE | 1/4                            | 6.0 TPG (s)   | U                     | A             |
| 4684                                                          | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 4165                                                             | COMPOSITE | 3/16                           | 5.0 TBP (m)   | U                     | A             |
| <b>Intex Glass (Xiamen) Co., Ltd. ; Xiamen, Fujian, China</b> |           |                                |               |                       |               | 4166                                                             | COMPOSITE | 1/4                            | 6.0 TBP (s)   | U                     | A             |
| 2572                                                          | COMP+CAN  | 1/8                            | 3.0 TTG       | U                     | A             | 3991                                                             | COMPOSITE | 5/32                           | 4.0 TBG       | U                     | A             |
| 2573                                                          | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             | 3992                                                             | COMPOSITE | 3/16                           | 5.0 TBG       | U                     | A             |
| 2574                                                          | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             | 3993                                                             | COMPOSITE | 1/4                            | 6.0 TBG       | U                     | A             |
| 2575                                                          | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 3994                                                             | COMPOSITE | 5/16                           | 8.0 TBG       | U                     | A             |
| 3025                                                          | COMP+CAN  | 5/16                           | 8.0 TTG       | U                     | A             | <b>Kohler Company ; Union City, TN</b>                           |           |                                |               |                       |               |
| 2576                                                          | COMP+CAN  | 3/8                            | 10.0 TTG      | U                     | A             | 1979                                                             | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 2577                                                          | COMP+CAN  | 1/2                            | 12.0 TTG      | U                     | A             | 1980                                                             | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| <b>Intigral ; Walton Hills, OH</b>                            |           |                                |               |                       |               | 1981                                                             | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 2050                                                          | COMP+CAN  | 1/8                            | 3.0 TTG       | U                     | A             | 1982                                                             | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 2051                                                          | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             | 4668                                                             | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 2052                                                          | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             | 2434                                                             | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 2055                                                          | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 4012                                                             | COMPOSITE | 1/2                            | 12.0 TTG (IN) | U                     | A             |
| 3631                                                          | COMP+CAN  | 1/8                            | 3.0 TPG (m)   | U                     | A             | 1983                                                             | COMPOSITE | 1/8                            | 3.0 TPG (m)   | U                     | A             |
| 4588                                                          | COMP+CAN  | 5/32                           | 4.0 TPG (m)   | U                     | A             | 3532                                                             | COMPOSITE | 5/32                           | 4.0 TPG (m)   | U                     | A             |
|                                                               |           |                                |               |                       |               | 1984                                                             | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             |
|                                                               |           |                                |               |                       |               | 2918                                                             | COMPOSITE | 1/4                            | 6.0 TPG (m)   | U                     | A             |
|                                                               |           |                                |               |                       |               | <b>M/M Tempering Inc. ; Loganville, GA</b>                       |           |                                |               |                       |               |
|                                                               |           |                                |               |                       |               | 4280                                                             | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
|                                                               |           |                                |               |                       |               | 4281                                                             | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
|                                                               |           |                                |               |                       |               | 4282                                                             | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
|                                                               |           |                                |               |                       |               | <b>Maryland Glass &amp; Mirror ; Baltimore, MD</b>               |           |                                |               |                       |               |
|                                                               |           |                                |               |                       |               | 4318                                                             | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
|                                                               |           |                                |               |                       |               | 4319                                                             | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
|                                                               |           |                                |               |                       |               | 4320                                                             | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
|                                                               |           |                                |               |                       |               | 4321                                                             | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
|                                                               |           |                                |               |                       |               | 4322                                                             | COMPOSITE | 1/2                            | 12.0 TTG      | 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 |   |
|---------------------------------------------------|-----------|--------------------------------|--------------|-----------------------|---------------|-----------------------------------------------|-----------|--------------------------------|---------------|-----------------------|---------------|---|
| McGrory Glass ; Paulsboro, NJ                     |           |                                |              |                       |               | Oldcastle BuildingEnvelope™ ; Albertville, MN |           |                                |               |                       |               |   |
| 4813                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3104                                          | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |   |
| 4814                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 3105                                          | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |   |
| 4815                                              | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 3106                                          | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |   |
| Mega Tempering ; Brooklyn, NY                     |           |                                |              |                       |               | 3107                                          | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |   |
| 4299                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4882                                          | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |   |
| 4300                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 3108                                          | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |   |
| 4301                                              | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 3109                                          | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |   |
| Mercer Glass Fab LLC ; Trenton, NJ                |           |                                |              |                       |               | 3110                                          | COMPOSITE | 5/8                            | 16.0 TTG      | U                     | A             |   |
| 4254                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3111                                          | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |   |
| 4530                                              | COMPOSITE | 5/16                           | 8.0 TTG      | U                     | A             | 3112                                          | COMPOSITE | 5/32                           | 4.0 TPG (s)   | U                     | A             |   |
| 4255                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 3113                                          | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             |   |
| 4256                                              | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 3114                                          | COMPOSITE | 7/32                           | 5.5 TPG (s)   | U                     | A             |   |
| 4257                                              | COMPOSITE | 1/4                            | 6.0 TPG (m)  | U                     | A             | 3561                                          | COMPOSITE | 1/4                            | 6.0 TPG (s)   | U                     | A             |   |
| 4258                                              | COMPOSITE | 3/8                            | 10.0 TPG (m) | U                     | A             | 3127                                          | COMPOSITE | 3/8                            | 10.0 TPG (m)  | U                     | A             |   |
| Milgard Tempering ; Dixon, CA                     |           |                                |              |                       |               | Oldcastle BuildingEnvelope™ ; Bensenville, IL |           |                                |               |                       |               |   |
| 2842                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3593                                          | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |   |
| Multiver ; Vanier, QC                             |           |                                |              |                       |               | 1382                                          | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |   |
| 2498                                              | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 1383                                          | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |   |
| 2629                                              | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 1384                                          | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |   |
| 4524                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 3596                                          | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             |   |
| 2499                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3597                                          | COMPOSITE | 1/4                            | 6.0 TPG (d)   | U                     | A             |   |
| Nashville Tempered Glass Corp. ; Nashville, TN    |           |                                |              |                       |               | 3598                                          | COMPOSITE | 3/8                            | 10.0 TPG (d)  | U                     | A             |   |
| 1416                                              | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 2308                                          | COMPOSITE | 1/4                            | 6.0 TBG       | U                     | A             |   |
| 2497                                              | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 1536                                          | COMPOSITE | 3/8                            | 10.0 TBG      | U                     | A             |   |
| 1467                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 2053                                          | COMPOSITE | 1/2                            | 12.0 TBG      | U                     | A             |   |
| 1417                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3671                                          | COMPOSITE | 3/4                            | 19.0 TBG      | U                     | A             |   |
| 2494                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | Oldcastle BuildingEnvelope™ ; Burnaby, BC     |           |                                |               |                       |               |   |
| 2420                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | 3286                                          | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |   |
| 2417                                              | COMPOSITE | 3/16                           | 5.0 TPG (s)  | U                     | A             | 3287                                          | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |   |
| Nashville Tempered Glass LLC ; Hendersonville, TN |           |                                |              |                       |               | 3288                                          | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |   |
| 2691                                              | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 3289                                          | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |   |
| 2692                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 3290                                          | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |   |
| 2693                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3291                                          | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |   |
| 2694                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 3292                                          | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |   |
| 4148                                              | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 3293                                          | COMPOSITE | 5/8                            | 16.0 TTG      | U                     | A             |   |
| New Angle Beveling ; Hyde, PA                     |           |                                |              |                       |               | 3294                                          | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |   |
| 4593                                              | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 3295                                          | COMPOSITE | 1/8                            | 3.0 TPG (m)   | U                     | A             |   |
| 4594                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 3296                                          | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             |   |
| 4595                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3297                                          | COMPOSITE | 3/16                           | 5.0 TPG (d)   | U                     | A             |   |
| 4591                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 4710                                          | COMPOSITE | 3/8                            | 10.0 TPG (s)  | U                     | A             |   |
| 4592                                              | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4475                                          | COMPOSITE | (S)                            | 6 LTG (b)     | (.015)                | U             | A |
| Northwest Glass, Inc. ; Billings, MT              |           |                                |              |                       |               | 4476                                          | COMPOSITE | (H)                            | 8-16+ LTG (b) | (.015)                | U             | A |
| 3649                                              | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | Oldcastle BuildingEnvelope™ ; Calgary, AB     |           |                                |               |                       |               |   |
| 3650                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 3263                                          | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |   |
| 3651                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3264                                          | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |   |
| 3652                                              | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 3265                                          | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |   |
| 3653                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | 3266                                          | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |   |
| 3655                                              | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             | 3267                                          | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |   |
| NY Tempering LLC ; Maspeth, NY                    |           |                                |              |                       |               | 3268                                          | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |   |
| 4900                                              | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 3269                                          | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |   |
| 4901                                              | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3270                                          | COMPOSITE | 5/8                            | 16.0 TTG      | U                     | A             |   |
| 4902                                              | COMPOSITE | 3/8                            | 10.0 TTG     | A                     | U             | 3271                                          | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |   |
| 4903                                              | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 3272                                          | COMPOSITE | 1/8                            | 3.0 TPG (m)   | U                     | A             |   |
|                                                   |           |                                |              |                       |               | 3273                                          | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             |   |
|                                                   |           |                                |              |                       |               | 3274                                          | COMPOSITE | 3/16                           | 5.0 TPG (d)   | U                     | A             |   |
|                                                   |           |                                |              |                       |               | 3275                                          | COMPOSITE | 1/4                            | 6.0 TPG (m)   | U                     | A             |   |
|                                                   |           |                                |              |                       |               | 3262                                          | COMPOSITE | 3/8                            | 10.0 TPG (d)  | 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 |
|---------------------------------------------|---------------|--------------------------------|--------------|-----------------------|---------------|-------------------------------------------------|---------------|--------------------------------|--------------|-----------------------|---------------|
| Oldcastle BuildingEnvelope™ ; Concord, ON   |               |                                |              |                       |               | Oldcastle BuildingEnvelope™ ; Fremont, CA       |               |                                |              |                       |               |
| 3439                                        | COMPOSITE     | 1/8                            | 3.0 TTG      | U                     | A             | 3191                                            | COMPOSITE     | 1/8                            | 3.0 TTG      | U                     | A             |
| 3440                                        | COMPOSITE     | 5/32                           | 4.0 TTG      | U                     | A             | 3192                                            | COMPOSITE     | 5/32                           | 4.0 TTG      | U                     | A             |
| 3441                                        | COMPOSITE     | 3/16                           | 5.0 TTG      | U                     | A             | 3193                                            | COMPOSITE     | 3/16                           | 5.0 TTG      | U                     | A             |
| 3442                                        | COMPOSITE     | 1/4                            | 6.0 TTG      | U                     | A             | 3194                                            | COMPOSITE     | 1/4                            | 6.0 TTG      | U                     | A             |
| 3443                                        | COMPOSITE     | 5/16                           | 8.0 TTG      | U                     | A             | 3195                                            | COMPOSITE     | 3/8                            | 10.0 TTG     | U                     | A             |
| 3444                                        | COMPOSITE     | 3/8                            | 10.0 TTG     | U                     | A             | 3196                                            | COMPOSITE     | 1/2                            | 12.0 TTG     | U                     | A             |
| 3445                                        | COMPOSITE     | 1/2                            | 12.0 TTG     | U                     | A             | 4458                                            | COMPOSITE     | 5/8                            | 16.0 TTG     | U                     | A             |
| 3446                                        | COMPOSITE     | 5/8                            | 16.0 TTG     | U                     | A             | 3197                                            | COMPOSITE     | 3/4                            | 19.0 TTG     | U                     | A             |
| 3447                                        | COMPOSITE     | 3/4                            | 19.0 TTG     | U                     | A             | 3199                                            | COMPOSITE     | 1/8                            | 3.0 TPG (s)  | U                     | A             |
| 4423                                        | COMPOSITE     | 1/8                            | 3.0 TPG (s)  | U                     | A             | 3200                                            | COMPOSITE     | 5/32                           | 4.0 TPG (s)  | U                     | A             |
| 4424                                        | COMPOSITE     | 3/16                           | 5.0 TPG (s)  | U                     | A             | 3201                                            | COMPOSITE     | 3/16                           | 5.0 TPG (m)  | U                     | A             |
| 3448                                        | COMPOSITE     | 3/8                            | 10.0 TPG (s) | U                     | A             | 3907                                            | COMPOSITE     | 1/4                            | 6.0 TPG (m)  | U                     | A             |
| Oldcastle BuildingEnvelope™ ; Covington, GA |               |                                |              |                       |               | 3203                                            | COMPOSITE     | 3/8                            | 10.0 TPG (s) | U                     | A             |
| 3329                                        | COMPOSITE     | 1/8                            | 3.0 TTG      | U                     | A             | 4531                                            | COMPOSITE (S) | 6 LTG (b)                      | (.030)       | U                     | A             |
| 3330                                        | COMPOSITE     | 5/32                           | 4.0 TTG      | U                     | A             | 4457                                            | COMPOSITE (S) | 6 LTG (ip)                     | (.060)       | U                     | A             |
| 3331                                        | COMPOSITE     | 3/16                           | 5.0 TTG      | U                     | A             | 4460                                            | COMPOSITE (H) | 8-16+ LTG (b)                  | (.030)       | U                     | A             |
| 3332                                        | COMPOSITE     | 1/4                            | 6.0 TTG      | U                     | A             | 4461                                            | COMPOSITE (H) | 8-16+ LTG (ip)                 | (.060)       | U                     | A             |
| 3333                                        | COMPOSITE     | 3/8                            | 10.0 TTG     | U                     | A             | Oldcastle BuildingEnvelope™ ; Grand Prairie, TX |               |                                |              |                       |               |
| 3334                                        | COMPOSITE     | 1/2                            | 12.0 TTG     | U                     | A             | 3250                                            | COMPOSITE     | 1/8                            | 3.0 TTG      | U                     | A             |
| 3335                                        | COMPOSITE     | 3/4                            | 19.0 TTG     | U                     | A             | 3251                                            | COMPOSITE     | 5/32                           | 4.0 TTG      | U                     | A             |
| 3336                                        | COMPOSITE     | 1/8                            | 3.0 TPG (s)  | U                     | A             | 3252                                            | COMPOSITE     | 3/16                           | 5.0 TTG      | U                     | A             |
| 3337                                        | COMPOSITE     | 5/32                           | 4.0 TPG (s)  | U                     | A             | 3253                                            | COMPOSITE     | 1/4                            | 6.0 TTG      | U                     | A             |
| 3338                                        | COMPOSITE     | 3/16                           | 5.0 TPG (m)  | U                     | A             | 3255                                            | COMPOSITE     | 3/8                            | 10.0 TTG     | U                     | A             |
| 3339                                        | COMPOSITE     | 1/4                            | 6.0 TPG (m)  | U                     | A             | 3256                                            | COMPOSITE     | 1/2                            | 12.0 TTG     | U                     | A             |
| 3340                                        | COMPOSITE     | 3/8                            | 10.0 TPG (s) | U                     | A             | 3257                                            | COMPOSITE     | 3/4                            | 19.0 TTG     | U                     | A             |
| 4391                                        | COMPOSITE (S) | 6 LTG (b)                      | (.030)       | U                     | A             | 3425                                            | COMPOSITE     | 1/8                            | 3.0 TPG (s)  | U                     | A             |
| 4393                                        | COMPOSITE (H) | 10-12 LTG (ip)                 | (.035)       | U                     | A             | 3426                                            | COMPOSITE     | 5/32                           | 4.0 TPG (m)  | U                     | A             |
| 4392                                        | COMPOSITE (H) | 10-16+ LTG (b)                 | (.030)       | U                     | A             | 3427                                            | COMPOSITE     | 3/16                           | 5.0 TPG (s)  | U                     | A             |
| Oldcastle BuildingEnvelope™ ; Denver, CO    |               |                                |              |                       |               | 3428                                            | COMPOSITE     | 3/8                            | 10.0 TPG (s) | U                     | A             |
| 3310                                        | COMPOSITE     | 1/8                            | 3.0 TTG      | U                     | A             | 3258                                            | COMPOSITE (S) | 6 LTG (b)                      | (.030)       | U                     | A             |
| 3311                                        | COMPOSITE     | 5/32                           | 4.0 TTG      | U                     | A             | Oldcastle BuildingEnvelope™ ; Hauppauge, NY     |               |                                |              |                       |               |
| 3312                                        | COMPOSITE     | 3/16                           | 5.0 TTG      | U                     | A             | 1546                                            | COMPOSITE     | 1/8                            | 3.0 TTG      | U                     | A             |
| 3313                                        | COMPOSITE     | 1/4                            | 6.0 TTG      | U                     | A             | 1547                                            | COMPOSITE     | 3/16                           | 5.0 TTG      | U                     | A             |
| 3314                                        | COMPOSITE     | 3/8                            | 10.0 TTG     | U                     | A             | 1548                                            | COMPOSITE     | 1/4                            | 6.0 TTG      | U                     | A             |
| 3315                                        | COMPOSITE     | 1/2                            | 12.0 TTG     | U                     | A             | 4180                                            | COMPOSITE     | 5/16                           | 8.0 TTG      | U                     | A             |
| 4245                                        | COMPOSITE     | 3/4                            | 19.0 TTG     | U                     | A             | 1549                                            | COMPOSITE     | 3/8                            | 10.0 TTG     | U                     | A             |
| 3317                                        | COMPOSITE     | 1/8                            | 3.0 TPG (s)  | U                     | A             | 1550                                            | COMPOSITE     | 1/2                            | 12.0 TTG     | U                     | A             |
| 3318                                        | COMPOSITE     | 5/32                           | 4.0 TPG (d)  | U                     | A             | 4181                                            | COMPOSITE     | 5/8                            | 16.0 TTG     | U                     | A             |
| 3319                                        | COMPOSITE     | 3/16                           | 5.0 TPG (m)  | U                     | A             | 1551                                            | COMPOSITE     | 3/4                            | 19.0 TTG     | U                     | A             |
| 3320                                        | COMPOSITE     | 1/4                            | 6.0 TPG (s)  | U                     | A             | 3492                                            | COMPOSITE     | 3/16                           | 5.0 TPG (d)  | U                     | A             |
| 3321                                        | COMPOSITE     | 3/8                            | 10.0 TPG (s) | U                     | A             | 3392                                            | COMPOSITE (S) | 6 LTG (b)                      | (.030)       | U                     | A             |
| 4533                                        | COMPOSITE (S) | 6 LTG (b)                      | (.030)       | U                     | A             | 4618                                            | COMPOSITE (H) | 10-16+ LTG (b)                 | (.030)       | U                     | A             |
| 4455                                        | COMPOSITE (S) | 6 LTG (ip)                     | (.035)       | U                     | A             | 4619                                            | COMPOSITE (H) | 12-16+ LTG (ip)                | (.035)       | U                     | A             |
| 4456                                        | COMPOSITE (H) | 8-16+ LTG (ip)                 | (.035)       | U                     | A             | Oldcastle BuildingEnvelope™ ; Houston, TX       |               |                                |              |                       |               |
| 4454                                        | COMPOSITE (H) | 10-16+ LTG (b)                 | (.030)       | U                     | A             | 3156                                            | COMPOSITE     | 1/8                            | 3.0 TTG      | U                     | A             |
|                                             |               |                                |              |                       |               | 3157                                            | COMPOSITE     | 5/32                           | 4.0 TTG      | U                     | A             |
|                                             |               |                                |              |                       |               | 3158                                            | COMPOSITE     | 3/16                           | 5.0 TTG      | U                     | A             |
|                                             |               |                                |              |                       |               | 3159                                            | COMPOSITE     | 1/4                            | 6.0 TTG      | U                     | A             |
|                                             |               |                                |              |                       |               | 3160                                            | COMPOSITE     | 3/8                            | 10.0 TTG     | U                     | A             |
|                                             |               |                                |              |                       |               | 3161                                            | COMPOSITE     | 1/2                            | 12.0 TTG     | U                     | A             |
|                                             |               |                                |              |                       |               | 3163                                            | COMPOSITE     | 5/32                           | 4.0 TPG (d)  | U                     | A             |
|                                             |               |                                |              |                       |               | 3164                                            | COMPOSITE     | 3/16                           | 5.0 TPG (m)  | U                     | A             |
|                                             |               |                                |              |                       |               | 3165                                            | COMPOSITE     | 1/4                            | 6.0 TPG (m)  | U                     | A             |
|                                             |               |                                |              |                       |               | 3166                                            | COMPOSITE     | 3/8                            | 10.0 TPG (s) | U                     | A             |
|                                             |               |                                |              |                       |               | 4402                                            | COMPOSITE (H) | 8-16+ LTG (b)                  | (.030)       | U                     | A             |
|                                             |               |                                |              |                       |               | 4401                                            | COMPOSITE (H) | 12 LTG (ip)                    | (.090)       | 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™ ; Indianapolis, IN</b>    |           |                                |                    |                       |               | <b>Oldcastle BuildingEnvelope™ ; Moorestown, NJ</b> |           |                                |                |                       |               |
| 2210                                                     | COMPOSITE | 1/8                            | 3.0 TTG            | U                     | A             | 3180                                                | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 2216                                                     | COMPOSITE | 5/32                           | 4.0 TTG            | U                     | A             | 3181                                                | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             |
| 2211                                                     | COMPOSITE | 3/16                           | 5.0 TTG            | U                     | A             | 3182                                                | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 2212                                                     | COMPOSITE | 1/4                            | 6.0 TTG            | U                     | A             | 3183                                                | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 2213                                                     | COMPOSITE | 3/8                            | 10.0 TTG           | U                     | A             | 3184                                                | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 2214                                                     | COMPOSITE | 1/2                            | 12.0 TTG           | U                     | A             | 3185                                                | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 4384                                                     | COMPOSITE | 1/8                            | 3.0 TPG (s)        | U                     | A             | 4054                                                | COMPOSITE | 5/8                            | 16.0 TTG       | U                     | A             |
| 2215                                                     | COMPOSITE | 3/16                           | 5.0 TPG (s)        | U                     | A             | 3186                                                | COMPOSITE | 1/8                            | 3.0 TPG (s)    | U                     | A             |
| 4386                                                     | COMPOSITE | 7/32                           | 5.5 TPG (d)        | U                     | A             | 3187                                                | COMPOSITE | 5/32                           | 4.0 TPG (d)    | U                     | A             |
| 3259                                                     | COMPOSITE | 3/8                            | 10.0 TPG (s)       | U                     | A             | 3188                                                | COMPOSITE | 3/16                           | 5.0 TPG (m)    | U                     | A             |
| <b>Oldcastle BuildingEnvelope™ ; Los Angeles, CA</b>     |           |                                |                    |                       |               | 3189                                                | COMPOSITE | 1/4                            | 6.0 TPG (m)    | U                     | A             |
| 1608                                                     | COMPOSITE | 1/8                            | 3.0 TTG            | U                     | A             | 3190                                                | COMPOSITE | 3/8                            | 10.0 TPG (s)   | U                     | A             |
| 1609                                                     | COMPOSITE | 5/32                           | 4.0 TTG            | U                     | A             | <b>Oldcastle BuildingEnvelope™ ; Perrysburg, OH</b> |           |                                |                |                       |               |
| 630                                                      | COMPOSITE | 3/16                           | 5.0 TTG            | U                     | A             | 3233                                                | COMP+CAN  | 1/8                            | 3.0 TTG        | U                     | A             |
| 514                                                      | COMPOSITE | 1/4                            | 6.0 TTG            | U                     | A             | 3234                                                | COMP+CAN  | 5/32                           | 4.0 TTG        | U                     | A             |
| 4400                                                     | COMPOSITE | 5/16                           | 8.0 TTG            | U                     | A             | 3235                                                | COMP+CAN  | 3/16                           | 5.0 TTG        | U                     | A             |
| 515                                                      | COMPOSITE | 3/8                            | 10.0 TTG           | U                     | A             | 3236                                                | COMP+CAN  | 1/4                            | 6.0 TTG        | U                     | A             |
| 516                                                      | COMPOSITE | 1/2                            | 12.0 TTG           | U                     | A             | 4443                                                | COMP+CAN  | 5/16                           | 8.0 TTG        | U                     | A             |
| 4387                                                     | COMPOSITE | 5/8                            | 16.0 TTG           | U                     | A             | 3237                                                | COMP+CAN  | 3/8                            | 10.0 TTG       | U                     | A             |
| 2074                                                     | COMPOSITE | 3/4                            | 19.0 TTG           | U                     | A             | 3238                                                | COMP+CAN  | 1/2                            | 12.0 TTG       | U                     | A             |
| 935                                                      | COMPOSITE | 3/16                           | 5.0 TPG (s)        | U                     | A             | 3239                                                | COMP+CAN  | 5/8                            | 16.0 TTG       | U                     | A             |
| 4133                                                     | COMPOSITE | 1/4                            | 6.0 TPG (s)        | U                     | A             | 3240                                                | COMP+CAN  | 3/4                            | 19.0 TTG       | U                     | A             |
| 3793                                                     | COMPOSITE | 3/8                            | 10.0 TPG (d)       | U                     | A             | 3242                                                | COMP+CAN  | 1/8                            | 3.0 TPG (s)    | U                     | A             |
| 4576                                                     | COMPOSITE | (S)                            | 6 LTG (ip)         | (.035) U              | A             | 3243                                                | COMP+CAN  | 3/16                           | 5.0 TPG (m)    | U                     | A             |
| 4346                                                     | COMPOSITE | (S)                            | 6 LTG (b)          | (.030) U              | A             | 3244                                                | COMP+CAN  | 1/4                            | 6.0 TPG (m)    | U                     | A             |
| 4563                                                     | COMPOSITE | (H)                            | 8-16+ LTG (b)      | (.030) U              | A             | 3245                                                | COMP+CAN  | 3/8                            | 10.0 TPG (m)   | U                     | A             |
| 4561                                                     | COMPOSITE | (H)                            | 10-16+ LTG (ip)    | (.035) U              | A             | 4700                                                | COMP+CAN  | (S)                            | 6 LTG (b)      | (.030) U              | A             |
| <b>Oldcastle BuildingEnvelope™ ; Miami, FL</b>           |           |                                |                    |                       |               | 4444                                                | COMP+CAN  | (H)                            | 8-16+ LTG (ip) | (.035) U              | A             |
| 3496                                                     | COMPOSITE | 1/8                            | 3.0 TTG            | U                     | A             | 4446                                                | COMP+CAN  | (H)                            | 8-16+ LTG (b)  | (.030) U              | A             |
| 3497                                                     | COMPOSITE | 3/16                           | 5.0 TTG            | U                     | A             | <b>Oldcastle BuildingEnvelope™ ; Phoenix, AZ</b>    |           |                                |                |                       |               |
| 3498                                                     | COMPOSITE | 1/4                            | 6.0 TTG            | U                     | A             | 3128                                                | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 3499                                                     | COMPOSITE | 3/8                            | 10.0 TTG           | U                     | A             | 3129                                                | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             |
| 3500                                                     | COMPOSITE | 1/2                            | 12.0 TTG           | U                     | A             | 3130                                                | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 3501                                                     | COMPOSITE | 1/8                            | 3.0 TPG (s)        | U                     | A             | 3131                                                | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 3502                                                     | COMPOSITE | 3/16                           | 5.0 TPG (m)        | U                     | A             | 3132                                                | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 4477                                                     | COMPOSITE | 1/4                            | 6.0 TPG (d)        | U                     | A             | 3133                                                | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 3503                                                     | COMPOSITE | 3/8                            | 10.0 TPG (s)       | U                     | A             | 3134                                                | COMPOSITE | 1/8                            | 3.0 TPG (s)    | U                     | A             |
| 4001                                                     | COMPOSITE | (S)                            | 6 LTG (b)          | (.030) U              | A             | 3135                                                | COMPOSITE | 5/32                           | 4.0 TPG (s)    | U                     | A             |
| 4397                                                     | COMPOSITE | (S)                            | 6 LTG (ip)         | (.030) U              | A             | 3136                                                | COMPOSITE | 3/16                           | 5.0 TPG (m)    | U                     | A             |
| 4399                                                     | COMPOSITE | (H)                            | 8-16+ LTG (ip)     | (.030) U              | A             | 3999                                                | COMPOSITE | 1/4                            | 6.0 TPG (s)    | U                     | A             |
| 4398                                                     | COMPOSITE | (H)                            | 8-16+ LTG (b)      | (.030) U              | A             | 3729                                                | COMPOSITE | 3/8                            | 10.0 TPG (s)   | U                     | A             |
| <b>Oldcastle BuildingEnvelope™ ; Montreal, QC Canada</b> |           |                                |                    |                       |               | <b>Oldcastle BuildingEnvelope™ ; Rock Hill, SC</b>  |           |                                |                |                       |               |
| 1996                                                     | COMP+CAN  | 1/8                            | 3.0 TTG            | U                     | A             | 3276                                                | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 4247                                                     | COMP+CAN  | 5/32                           | 4.0 TTG            | U                     | A             | 3462                                                | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             |
| 1997                                                     | COMP+CAN  | 3/16                           | 5.0 TTG            | U                     | A             | 3277                                                | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 2543                                                     | COMP+CAN  | 1/4                            | 6.0 TTG            | U                     | A             | 3278                                                | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 2884                                                     | COMP+CAN  | 5/16                           | 8.0 TTG            | U                     | A             | 4787                                                | COMPOSITE | 5/16                           | 8.0 TTG        | U                     | A             |
| 2544                                                     | COMP+CAN  | 3/8                            | 10.0 TTG           | U                     | A             | 3279                                                | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 2062                                                     | COMP+CAN  | 1/2                            | 12.0 TTG           | U                     | A             | 3280                                                | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 2063                                                     | COMP+CAN  | 5/8                            | 16.0 TTG           | U                     | A             | 3281                                                | COMPOSITE | 1/8                            | 3.0 TPG (s)    | U                     | A             |
| 2885                                                     | COMP+CAN  | 3/4                            | 19.0 TTG           | U                     | A             | 4396                                                | COMPOSITE | 5/32                           | 4.0 TPG (d)    | U                     | A             |
| 5024                                                     | COMP+CAN  | (S)                            | 6 LTG (b)          | (.015) U              | B             | 3283                                                | COMPOSITE | 3/16                           | 5.0 TPG (d)    | U                     | A             |
| 4432                                                     | COMP+CAN  | (S)                            | 6 LTG (ip)         | (.035) U              | A             | 3284                                                | COMPOSITE | 1/4                            | 6.0 TPG (d)    | U                     | A             |
| 5025                                                     | COMP+CAN  | (S)                            | 6 LTG (b)          | (.030) U              | A             | 3285                                                | COMPOSITE | 3/8                            | 10.0 TPG (d)   | U                     | A             |
| 4433                                                     | COMP+CAN  | (H)                            | 8, 12-16+ LTG (ip) | (.035) U              | A             |                                                     |           |                                |                |                       |               |
| 4435                                                     | COMP+CAN  | (H)                            | 8-10 LTG (b)       | (.030) U              | A             |                                                     |           |                                |                |                       |               |
| 4436                                                     | COMP+CAN  | (H)                            | 12-16+ LTG (b)     | (.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>Oldcastle BuildingEnvelope™ ; Schofield, WI</b> |           |                                |               |                       |               | <b>Oldcastle BuildingEnvelope™ ; Warrenton, MO</b>   |           |                                |                |                       |               |
| 3167                                               | COMP+CAN  | 1/8                            | 3.0 TTG       | U                     | A             | 3144                                                 | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 3168                                               | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             | 3145                                                 | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             |
| 3169                                               | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             | 3146                                                 | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 3170                                               | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 3147                                                 | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 3171                                               | COMP+CAN  | 5/16                           | 8.0 TTG       | U                     | A             | 3796                                                 | COMPOSITE | 5/16                           | 8.0 TTG        | U                     | A             |
| 3172                                               | COMP+CAN  | 3/8                            | 10.0 TTG      | U                     | A             | 3148                                                 | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 3173                                               | COMP+CAN  | 1/2                            | 12.0 TTG      | U                     | A             | 3149                                                 | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 3177                                               | COMP+CAN  | 5/32                           | 4.0 TPG (d)   | U                     | A             | 3151                                                 | COMPOSITE | 1/8                            | 3.0 TPG (s)    | U                     | A             |
| 3178                                               | COMP+CAN  | 3/16                           | 5.0 TPG (d)   | U                     | A             | 3152                                                 | COMPOSITE | 5/32                           | 4.0 TPG (s)    | U                     | A             |
| 3179                                               | COMP+CAN  | 1/4                            | 6.0 TPG (d)   | U                     | A             | 3153                                                 | COMPOSITE | 3/16                           | 5.0 TPG (m)    | U                     | A             |
| 3176                                               | COMP+CAN  | (S)                            | 6 LTG (b)     | (.030) U              | A             | 3154                                                 | COMPOSITE | 1/4                            | 6.0 TPG (m)    | U                     | A             |
| 4558                                               | COMP+CAN  | (H)                            | 8-16+ LTG (b) | (.030) U              | A             | 3155                                                 | COMPOSITE | 3/8                            | 10.0 TPG (d)   | U                     | A             |
| <b>Oldcastle BuildingEnvelope™ ; Shawnee, OK</b>   |           |                                |               |                       |               | <b>Oldcastle BuildingEnvelope™ ; Wright City, MO</b> |           |                                |                |                       |               |
| 3095                                               | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 3137                                                 | COMP+CAN  | 1/8                            | 3.0 TTG        | U                     | A             |
| 3096                                               | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 3138                                                 | COMP+CAN  | 5/32                           | 4.0 TTG        | U                     | A             |
| 3097                                               | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 3139                                                 | COMP+CAN  | 3/16                           | 5.0 TTG        | U                     | A             |
| 3098                                               | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 3140                                                 | COMP+CAN  | 1/4                            | 6.0 TTG        | U                     | A             |
| 3099                                               | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 3141                                                 | COMP+CAN  | 5/16                           | 8.0 TTG        | U                     | A             |
| 3100                                               | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 3142                                                 | COMP+CAN  | 3/8                            | 10.0 TTG       | U                     | A             |
| 3101                                               | COMPOSITE | 1/8                            | 3.0 TPG (m)   | U                     | A             | 3143                                                 | COMP+CAN  | 1/2                            | 12.0 TTG       | U                     | A             |
| 3102                                               | COMPOSITE | 5/32                           | 4.0 TPG (m)   | U                     | A             | 4833                                                 | COMP+CAN  | 3/16                           | 5.0 TPG (s)    | U                     | A             |
| 3103                                               | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             | 4526                                                 | COMP+CAN  | (S)                            | 6 LTG (b)      | (.030) U              | A             |
| <b>Oldcastle BuildingEnvelope™ ; Tampa, FL</b>     |           |                                |               |                       |               | 4528                                                 | COMP+CAN  | (S)                            | 6 LTG (ip)     | (.035) U              | A             |
| 3116                                               | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 4527                                                 | COMP+CAN  | (H)                            | 8-16+ LTG (b)  | (.030) U              | A             |
| 3118                                               | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 4529                                                 | COMP+CAN  | (H)                            | 8-16+ LTG (ip) | (.035) U              | A             |
| 3119                                               | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | <b>Patio Enclosures ; Macedonia, OH</b>              |           |                                |                |                       |               |
| 3120                                               | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 2056                                                 | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 3121                                               | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 2057                                                 | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             |
| 3122                                               | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             | 2058                                                 | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 3124                                               | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             | 3015                                                 | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 3125                                               | COMPOSITE | 1/4                            | 6.0 TPG (m)   | U                     | A             | <b>Pennsylvania Insulating Glass ; Lewistown, PA</b> |           |                                |                |                       |               |
| 4340                                               | COMPOSITE | 3/8                            | 10.0 TPG (s)  | U                     | A             | 3918                                                 | COMPOSITE | (S)                            | 5-6 LTG (b)    | (.030) U              | A             |
| 4448                                               | COMPOSITE | (S)                            | 6 LTG (b)     | (.030) U              | A             | 3919                                                 | COMPOSITE | (H)                            | 8-12 LTG (b)   | (.030) U              | A             |
| 4449                                               | COMPOSITE | (H)                            | 8-16+ LTG (b) | (.030) U              | A             | <b>Perficom, S.A. de C.V. ; San Juan, Mexico</b>     |           |                                |                |                       |               |
| 5051                                               | COMPOSITE | (H)                            | 12 LTG (ip)   | (.035) U              | A             | 4512                                                 | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| <b>Oldcastle BuildingEnvelope™ ; Vancouver, WA</b> |           |                                |               |                       |               | <b>PFG Glass ; Langley, BC</b>                       |           |                                |                |                       |               |
| 3219                                               | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 3538                                                 | COMP+CAN  | 1/8                            | 3.0 TTG        | U                     | A             |
| 3220                                               | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 3539                                                 | COMP+CAN  | 5/32                           | 4.0 TTG        | U                     | A             |
| 3221                                               | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | 3540                                                 | COMP+CAN  | 3/16                           | 5.0 TTG        | U                     | A             |
| 3222                                               | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 3541                                                 | COMP+CAN  | 1/4                            | 6.0 TTG        | U                     | A             |
| 3223                                               | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             | 3542                                                 | COMP+CAN  | 5/16                           | 8.0 TTG        | U                     | A             |
| 3224                                               | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 3543                                                 | COMP+CAN  | 3/8                            | 10.0 TTG       | U                     | A             |
| 3225                                               | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 3544                                                 | COMP+CAN  | 1/2                            | 12.0 TTG       | U                     | A             |
| 3226                                               | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             | 3547                                                 | COMP+CAN  | 1/8                            | 3.0 TPG (s)    | U                     | A             |
| 3227                                               | COMPOSITE | 5/32                           | 4.0 TPG (d)   | U                     | A             | 3548                                                 | COMP+CAN  | 5/32                           | 4.0 TPG (d)    | U                     | A             |
| 3228                                               | COMPOSITE | 3/16                           | 5.0 TPG (m)   | U                     | A             | 3549                                                 | COMP+CAN  | 3/16                           | 5.0 TPG (m)    | U                     | A             |
| 3229                                               | COMPOSITE | 1/4                            | 6.0 TPG (m)   | U                     | A             | 3711                                                 | COMP+CAN  | 1/4                            | 6.0 TPG (m)    | U                     | A             |
| 3230                                               | COMPOSITE | 3/8                            | 10.0 TPG (m)  | 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>PGT Industries ; Nokomis, FL</b>                                                   |           |                                |                  |                       |               | <b>PT Abebersa Pratama ; Bekasi, Indonesia</b>                                         |           |                                |                 |                       |               |
| 2389                                                                                  | COMPOSITE | 1/8                            | 3.0 TTG          | U                     | A             | 3905                                                                                   | COMPOSITE | 5/32                           | 4.0 TTG         | U                     | A             |
| 2390                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             | 3906                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| 2391                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             | <b>Pulp Studio Inc. ; Los Angeles, CA</b>                                              |           |                                |                 |                       |               |
| 3880                                                                                  | COMPOSITE | 1/8                            | 3.0 TPG (s)      | U                     | A             | 4685                                                                                   | COMPOSITE | (H)                            | 10 LTG (b)      | (.030) U              | A             |
| 3881                                                                                  | COMPOSITE | 3/16                           | 5.0 TPG (s)      | U                     | A             | 4711                                                                                   | COMPOSITE | (H)                            | 12 LTG (b)      | (.075) U              | A             |
| 2426                                                                                  | COMPOSITE | (H)                            | 8-12 LTG (b)     | (.060) U              | A             | <b>Qinhuangdao Detai Tempered Glass Co., Ltd. ;<br/>Qinhuangdao City, Hebei China</b>  |           |                                |                 |                       |               |
| 3482                                                                                  | COMPOSITE | (H)                            | 8-12 LTG (ip)    | (.090) U              | A             | 4156                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG         | U                     | A             |
| 4801                                                                                  | COMPOSITE | (H)                            | 8-10 LPG (s)(b)  | (.060) U              | A             | <b>Qinhuangdao High-Tech Energy-Saving Dorwin Co Ltd ;<br/>Qinhuangdao City, China</b> |           |                                |                 |                       |               |
| 4812                                                                                  | COMPOSITE | (H)                            | 8-10 LPG (s)(ip) | (.090) U              | A             | 4635                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG         | U                     | A             |
| <b>PPG Inds. Inc. ; Burlington, IA</b>                                                |           |                                |                  |                       |               | <b>Qinhuangdao Kunping Safety Glass Co. Ltd. ;<br/>Qinhuangdao City, China</b>         |           |                                |                 |                       |               |
| 1605                                                                                  | COMPOSITE | 1/8                            | 3.0 TTG          | U                     | A             | 3730                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG         | U                     | A             |
| 1606                                                                                  | COMPOSITE | 5/32                           | 4.0 TTG          | U                     | A             | <b>QinHuangDao Tianrui Tempered Technology Glass Co. ;<br/>Qinhuangdao, China</b>      |           |                                |                 |                       |               |
| 1603                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             | 3690                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG         | U                     | A             |
| 1604                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             | <b>Quaker Window Products, Inc. ; Freeburg, MO</b>                                     |           |                                |                 |                       |               |
| <b>PPG Inds. Inc. ; Carlisle, PA</b>                                                  |           |                                |                  |                       |               | 2985                                                                                   | COMP+CAN  | 1/8                            | 3.0 TTG         | U                     | A             |
| 250                                                                                   | COMP+CAN  | 1/8                            | 3.0 TTG          | U                     | A             | 2986                                                                                   | COMP+CAN  | 3/16                           | 5.0 TTG         | U                     | A             |
| 675                                                                                   | COMP+CAN  | 5/32                           | 4.0 TTG          | U                     | A             | 2968                                                                                   | COMP+CAN  | 1/8                            | 3.0 TPG (m)     | U                     | A             |
| 249                                                                                   | COMP+CAN  | 3/16                           | 5.0 TTG          | U                     | A             | 2969                                                                                   | COMP+CAN  | 5/32                           | 4.0 TPG (IN)(m) | U                     | A             |
| 382                                                                                   | COMP+CAN  | 1/4                            | 6.0 TTG          | U                     | A             | 3486                                                                                   | COMP+CAN  | 3/16                           | 5.0 TPG (m)     | U                     | A             |
| <b>PPG Inds., Inc. ; Wichita Falls, TX</b>                                            |           |                                |                  |                       |               | 2970                                                                                   | COMP+CAN  | 1/4                            | 6.0 TPG (IN)(m) | U                     | A             |
| 1110                                                                                  | COMPOSITE | 1/8                            | 3.0 TTG          | U                     | A             | 3485                                                                                   | ANSI ONLY | 1/4                            | 6.0 TBP         | U                     | A             |
| 1111                                                                                  | COMPOSITE | 5/32                           | 4.0 TTG          | U                     | A             | <b>Quality Glass &amp; Mirror, Inc. ; Mount Prospect, IL</b>                           |           |                                |                 |                       |               |
| 1112                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             | 2981                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| 1113                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             | 2982                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 3577                                                                                  | COMPOSITE | 5/16                           | 8.0 TTG          | U                     | A             | 2983                                                                                   | COMPOSITE | 3/8                            | 10.0 TTG        | U                     | A             |
| 3578                                                                                  | COMPOSITE | 3/8                            | 10.0 TTG         | U                     | A             | 2984                                                                                   | COMPOSITE | 1/2                            | 12.0 TTG        | U                     | A             |
| <b>Prelco Inc. ; Riviere-du-loup, QC</b>                                              |           |                                |                  |                       |               | 3805                                                                                   | COMPOSITE | 3/4                            | 19.0 TTG        | U                     | A             |
| 2034                                                                                  | COMP+CAN  | 1/8                            | 3.0 TTG          | U                     | A             | <b>Ready Glass &amp; Mirror, Inc. ; Hialeah, FL</b>                                    |           |                                |                 |                       |               |
| 2035                                                                                  | COMP+CAN  | 5/32                           | 4.0 TTG          | U                     | A             | 3745                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| 2713                                                                                  | COMP+CAN  | 3/16                           | 5.0 TTG          | U                     | A             | 3746                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 2015                                                                                  | COMP+CAN  | 1/4                            | 6.0 TTG          | U                     | A             | 3747                                                                                   | COMPOSITE | 3/8                            | 10.0 TTG        | U                     | A             |
| 2751                                                                                  | COMP+CAN  | 5/16                           | 8.0 TTG          | U                     | A             | 3748                                                                                   | COMPOSITE | 1/2                            | 12.0 TTG        | U                     | A             |
| 2381                                                                                  | COMP+CAN  | 3/8                            | 10.0 TTG         | U                     | A             | 4136                                                                                   | COMPOSITE | 3/16                           | 5.0 TPG (s)     | U                     | A             |
| 2048                                                                                  | COMP+CAN  | 1/2                            | 12.0 TTG         | U                     | A             | <b>Reem Emirates Aluminum &amp; Glass ; Abu Dhabi, United<br/>Arab Emirates</b>        |           |                                |                 |                       |               |
| 4904                                                                                  | COMP+CAN  | 3/4                            | 19.0 TTG         | U                     | A             | 4675                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 4905                                                                                  | COMP+CAN  | (S)                            | 6 LTG (b)        | (.030) U              | A             | 4676                                                                                   | COMPOSITE | 5/16                           | 8.0 TTG         | U                     | A             |
| 4906                                                                                  | COMP+CAN  | (H)                            | 8-16+ LTG (b)    | (.030) U              | A             | 4677                                                                                   | COMPOSITE | 3/8                            | 10.0 TTG        | U                     | A             |
| <b>Prelco Inc. ; Saint-Jacques, New Brunswick</b>                                     |           |                                |                  |                       |               | <b>RF Supply, Inc. ; Bradenton, FL</b>                                                 |           |                                |                 |                       |               |
| 4911                                                                                  | COMPOSITE | 1/8                            | 3.0 TTG          | U                     | A             | 4222                                                                                   | COMPOSITE | 1/8                            | 3.0 TTG         | U                     | A             |
| 4912                                                                                  | COMPOSITE | 5/32                           | 4.0 TTG          | U                     | A             | 4224                                                                                   | COMPOSITE | 3/16                           | 5.0 TTG         | U                     | A             |
| 4913                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             | 4225                                                                                   | COMPOSITE | 1/4                            | 6.0 TTG         | U                     | A             |
| 4914                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             | 4226                                                                                   | COMPOSITE | 3/8                            | 10.0 TTG        | U                     | A             |
| 4915                                                                                  | COMPOSITE | 5/16                           | 8.0 TTG          | U                     | A             | 4227                                                                                   | COMPOSITE | 1/2                            | 12.0 TTG        | U                     | A             |
| 4916                                                                                  | COMPOSITE | 3/8                            | 10.0 TTG         | U                     | A             | 4229                                                                                   | COMPOSITE | 3/16                           | 5.0 TPG (d)     | U                     | A             |
| 4917                                                                                  | COMPOSITE | 1/2                            | 12.0 TTG         | U                     | A             | 4230                                                                                   | COMPOSITE | 3/8                            | 10.0 TPG (d)    | U                     | A             |
| <b>Productos De Valor Agregado en Cristal S.A. de C.V. ;<br/>Tlalnepantla, Mexico</b> |           |                                |                  |                       |               |                                                                                        |           |                                |                 |                       |               |
| 4639                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             |                                                                                        |           |                                |                 |                       |               |
| 4645                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             |                                                                                        |           |                                |                 |                       |               |
| 4788                                                                                  | COMPOSITE | 5/16                           | 8.0 TTG          | U                     | A             |                                                                                        |           |                                |                 |                       |               |
| 4640                                                                                  | COMPOSITE | 3/8                            | 10.0 TTG         | U                     | A             |                                                                                        |           |                                |                 |                       |               |
| 4641                                                                                  | COMPOSITE | 1/2                            | 12.0 TTG         | U                     | A             |                                                                                        |           |                                |                 |                       |               |
| 4642                                                                                  | 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>SAAND Rexdale ; Rexdale, ON Canada</b>                            |           |                                |               |                       |               | <b>Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB ; Shanghai, China</b> |           |                                |                |                       |               |
| 2801                                                                 | COMP+CAN  | 1/8                            | 3.0 TTG       | U                     | A             | 2779                                                                        | COMPOSITE | (S)                            | 6 LTG (b)      | (.030)                | U A           |
| 2802                                                                 | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             | 4353                                                                        | COMPOSITE | (H)                            | 8 LTG (b)      | (.030)                | U A           |
| 2803                                                                 | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             | 4807                                                                        | COMPOSITE | (H)                            | 8-16+ LTG (ip) | (.035)                | U A           |
| 2804                                                                 | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 2780                                                                        | COMPOSITE | (H)                            | 10-16+ LTG (b) | (.015)                | U A           |
| 2805                                                                 | COMP+CAN  | 3/8                            | 10.0 TTG      | U                     | A             | <b>Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE ; Shanghai, China</b> |           |                                |                |                       |               |
| 2806                                                                 | COMP+CAN  | 1/2                            | 12.0 TTG      | U                     | A             | 4067                                                                        | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             |
| 4880                                                                 | COMP+CAN  | *                              | 15.0 TTG (3)  | U                     | A             | 4068                                                                        | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 4879                                                                 | COMP+CAN  | 3/4                            | 19.0 TTG      | U                     | A             | 4069                                                                        | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 4537                                                                 | COMP+CAN  | 1/8                            | 3.0 TPG (s)   | U                     | A             | 4070                                                                        | COMPOSITE | 5/16                           | 8.0 TTG        | U                     | A             |
| 4538                                                                 | COMP+CAN  | 5/32                           | 4.0 TPG (s)   | U                     | A             | 4071                                                                        | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 4539                                                                 | COMP+CAN  | 3/16                           | 5.0 TPG (s)   | U                     | A             | 4072                                                                        | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 4540                                                                 | COMP+CAN  | 3/8                            | 10.0 TPG (s)  | U                     | A             | 4073                                                                        | COMPOSITE | *                              | 15.0 TTG (3)   | U                     | A             |
| 2808                                                                 | COMP+CAN  | (S)                            | 4-6 LTG (b)   | (.030)                | U A           | 4074                                                                        | COMPOSITE | 3/4                            | 19.0 TTG       | U                     | A             |
| 3608                                                                 | COMP+CAN  | (H)                            | 8-16+ LTG (b) | (.030)                | U A           | <b>Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE ; Tianjin, China</b>   |           |                                |                |                       |               |
| <b>Sage Electrochromics Inc. ; Faribault, MN</b>                     |           |                                |               |                       |               | 4075                                                                        | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 5015                                                                 | COMP+CAN  | (S)                            | 6 LSP (ip)    | (.030)                | U A           | 4076                                                                        | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 5016                                                                 | COMP+CAN  | (H)                            | 8-12 LSP (ip) | (.030)                | U A           | 4077                                                                        | COMPOSITE | 5/16                           | 8.0 TTG        | U                     | A             |
| <b>Saint Gobain Mexico, S.A. de C.V. ; Morelos, Mexico</b>           |           |                                |               |                       |               | 4078                                                                        | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 2269                                                                 | ANSI ONLY | (S)                            | 6 LTG (b)     | .015(C1)              | U B           | 4079                                                                        | COMPOSITE | *                              | 12.0 TTG (3)   | U                     | A             |
| 2743                                                                 | COMPOSITE | (S)                            | 6 LTG (b)     | (.030)                | U A           | 4080                                                                        | COMPOSITE | *                              | 15.0 TTG (3)   | U                     | A             |
| 2267                                                                 | ANSI ONLY | (H)                            | 8-10 LTG (b)  | (.015)(C1)            | U B           | 4081                                                                        | COMPOSITE | 3/4                            | 19.0 TTG       | U                     | A             |
| 2332                                                                 | COMPOSITE | (H)                            | 8, 12 LTG (b) | (.030)                | U A           | 4083                                                                        | COMPOSITE | (S)                            | 6 LTG (b)      | (.030)                | U A           |
| 3479                                                                 | COMPOSITE | (H)                            | 10 LTG (b)    | (.090)                | U A           | 4084                                                                        | COMPOSITE | (H)                            | 8-16+ LTG (b)  | (.015)                | U A           |
| <b>Saint-Gobain SOVIS ; Thierry, France</b>                          |           |                                |               |                       |               | <b>SIGCO, Inc. ; Westbrook, ME</b>                                          |           |                                |                |                       |               |
| 2769                                                                 | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 2961                                                                        | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 2248                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 2962                                                                        | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             |
| 1992                                                                 | COMPOSITE | 5/32                           | 4.0 TBG       | U                     | A             | 2963                                                                        | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 2770                                                                 | COMPOSITE | 3/16                           | 5.0 TBG       | U                     | A             | 2964                                                                        | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 1864                                                                 | COMPOSITE | 1/4                            | 6.0 TBG       | U                     | A             | 2965                                                                        | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| <b>SCHOTT Gemtron - Sweetwater ; Sweetwater, TN</b>                  |           |                                |               |                       |               | 2966                                                                        | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 1334                                                                 | COMP+CAN  | 1/8                            | 3.0 TTG       | U                     | A             | 4326                                                                        | COMPOSITE | 5/8                            | 16.0 TTG       | U                     | A             |
| 1332                                                                 | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             | 4327                                                                        | COMPOSITE | 3/4                            | 19.0 TTG       | U                     | A             |
| 1201                                                                 | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             | 4543                                                                        | COMPOSITE | 1/8                            | 3.0 TPG (m)    | U                     | A             |
| 1477                                                                 | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 2967                                                                        | COMPOSITE | 5/32                           | 4.0 TPG (m)    | U                     | A             |
| 1422                                                                 | COMP+CAN  | 1/8                            | 3.0 TPG (s)   | U                     | A             | 3028                                                                        | COMPOSITE | 3/16                           | 5.0 TPG (m)    | U                     | A             |
| 1424                                                                 | COMP+CAN  | 5/32                           | 4.0 TPG (s)   | U                     | A             | 4206                                                                        | COMPOSITE | 3/8                            | 10.0 TPG (s)   | U                     | A             |
| <b>SCHOTT Gemtron (Canada) Corporation ; Midland, ON Canada</b>      |           |                                |               |                       |               | <b>Simonton Windows ; Ellenboro, WV</b>                                     |           |                                |                |                       |               |
| 3067                                                                 | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             | 2887                                                                        | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 3659                                                                 | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             | 2888                                                                        | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 3636                                                                 | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             | <b>Simonton Windows ; Paris, IL</b>                                         |           |                                |                |                       |               |
| 3637                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | 4979                                                                        | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| <b>SF Tempering ; Dania Beach, FL</b>                                |           |                                |               |                       |               | 4978                                                                        | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 5019                                                                 | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             | <b>Southwest Glass Products Inc. ; London, Ontario Canada</b>               |           |                                |                |                       |               |
| 5020                                                                 | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             | 3978                                                                        | COMP+CAN  | 1/8                            | 3.0 TTG        | U                     | A             |
| 5021                                                                 | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             | 4278                                                                        | COMP+CAN  | 5/32                           | 4.0 TTG        | U                     | A             |
| <b>Shanghai Mingte Glass Technology Co., Ltd. ; Qingpu, Shanghai</b> |           |                                |               |                       |               | 3979                                                                        | COMP+CAN  | 3/16                           | 5.0 TTG        | U                     | A             |
| 4933                                                                 | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             | 3980                                                                        | COMP+CAN  | 1/4                            | 6.0 TTG        | U                     | A             |
| 4934                                                                 | COMP+CAN  | 3/8                            | 10.0 TTG      | U                     | A             | 3981                                                                        | COMP+CAN  | 3/8                            | 10.0 TTG       | U                     | A             |
| 4935                                                                 | COMP+CAN  | 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>Spec-Temp, Inc. ; Antwerp, OH</b>                           |           |                                |              |                       |               | <b>Tecnolgass S.A. ; Barranquilla, Colombia</b>                   |           |                                |               |                       |               |
| 2684                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 2133                                                              | COMP+CAN  | 1/8                            | 3.0 TTG       | U                     | A             |
| 2685                                                           | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 2287                                                              | COMP+CAN  | 5/32                           | 4.0 TTG       | U                     | A             |
| 2686                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 1993                                                              | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             |
| 2687                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 1994                                                              | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             |
| 2688                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 2134                                                              | COMP+CAN  | 5/16                           | 8.0 TTG       | U                     | A             |
| 4811                                                           | COMPOSITE | 1/4                            | 6.0 TBG      | U                     | A             | 1995                                                              | COMP+CAN  | 3/8                            | 10.0 TTG      | U                     | A             |
| <b>Swift Glass Co., Inc. ; Elmira Heights, NY</b>              |           |                                |              |                       |               | 2135                                                              | COMP+CAN  | 1/2                            | 12.0 TTG      | U                     | A             |
| 1555                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 2365                                                              | COMP+CAN  | 5/8                            | 16.0 TTG      | U                     | A             |
| 1556                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 2894                                                              | COMP+CAN  | 3/4                            | 19.0 TTG      | U                     | A             |
| 1557                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4003                                                              | COMP+CAN  | (H)                            | 8-16+ LTG (b) | (.030) U              | A             |
| 1558                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | <b>Texas Tempered Glass Inc. ; Houston, TX</b>                    |           |                                |               |                       |               |
| 1559                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4847                                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| <b>Syracuse Glass Co., Inc. ; Syracuse, NY</b>                 |           |                                |              |                       |               | 4848                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 2654                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 4849                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 2957                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4850                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 2656                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4851                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 2958                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | <b>The Original Frameless Shower Door ; Coral Springs, FL</b>     |           |                                |               |                       |               |
| 2657                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4661                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| <b>Tacoma Glass Mfg. Inc. ; Lakewood, WA</b>                   |           |                                |              |                       |               | 4662                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4730                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4663                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 4731                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | <b>Thermal Seal Insulating Glass ; Uxbridge, MA</b>               |           |                                |               |                       |               |
| 4732                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4830                                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 4735                                                           | COMPOSITE | (H)                            | 8-12 LTG (b) | (.030) U              | A             | 4822                                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| <b>Tai Shan City Da Heng Art Glass Ltd. ; Guangdong, China</b> |           |                                |              |                       |               | 4823                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 3787                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 4824                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3788                                                           | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 4825                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 3789                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4826                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| <b>Taiwan Glass Industry Corporation ; Taipei, Taiwan, ROC</b> |           |                                |              |                       |               | 4831                                                              | COMPOSITE | 1/8                            | 3.0 TPG (s)   | U                     | A             |
| 3886                                                           | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | <b>Thermo BSL ; Riviere-du-loup, QC</b>                           |           |                                |               |                       |               |
| 3887                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4290                                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 3888                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4291                                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 3889                                                           | COMPOSITE | 5/16                           | 8.0 TTG      | U                     | A             | 4292                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 3890                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 4293                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3891                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | <b>Thermoseal Glass Corp. ; Gloucester City, NJ</b>               |           |                                |               |                       |               |
| 3892                                                           | COMPOSITE | (S)                            | 6 LTG (b)    | (.015) U              | A             | 4468                                                              | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 3893                                                           | COMPOSITE | (H)                            | 12 LTG (b)   | (.015) U              | A             | 4470                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| <b>Techni-Glass, Inc. ; Sargoinville, TN</b>                   |           |                                |              |                       |               | 4471                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 2547                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | <b>Tianjin CSG Architectural Glass Co., Ltd. ; Tianjin, China</b> |           |                                |               |                       |               |
| 2548                                                           | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 4021                                                              | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 2549                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4022                                                              | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 2975                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4023                                                              | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 3062                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 4024                                                              | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 4509                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4025                                                              | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4510                                                           | COMPOSITE | 5/8                            | 16.0 TTG     | U                     | A             | 4026                                                              | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 3061                                                           | COMPOSITE | 1/8                            | 3.0 TPG (m)  | U                     | A             | 4027                                                              | COMPOSITE | *                              | 15.0 TTG (3)  | U                     | A             |
| 5050                                                           | COMPOSITE | 5/32                           | 4.0 TPG (m)  | U                     | A             | 4028                                                              | COMPOSITE | 3/4                            | 19.0 TTG      | U                     | A             |
| 2550                                                           | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             | 4030                                                              | COMPOSITE | (H)                            | 8 LTG (b)     | (.030) U              | A             |
| 3060                                                           | COMPOSITE | 1/4                            | 6.0 TPG (m)  | U                     | A             | 4106                                                              | COMPOSITE | (H)                            | 10 LTG (b)    | (.045) U              | A             |
|                                                                |           |                                |              |                       |               | 4107                                                              | COMPOSITE | (H)                            | 12 LTG (b)    | (.060) U              | A             |
|                                                                |           |                                |              |                       |               | 4108                                                              | COMPOSITE | (H)                            | 16+ LTG (b)   | (.090) 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>TianJin Dong Sung Home Building Materials Co. Ltd. ;<br/>Tian Jin, China</b> |           |                                |                |                       |               | <b>Trulite Glass &amp; Aluminum Solutions ; Columbus, OH</b>       |           |                                |                |                       |               |
| 2889                                                                            | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             | 4745                                                               | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 4035                                                                            | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             | 4746                                                               | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 2890                                                                            | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             | 4747                                                               | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 3094                                                                            | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             | 4748                                                               | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 3460                                                                            | COMPOSITE | 5/32                           | 4.0 TPG (d)    | U                     | A             | 3407                                                               | COMPOSITE | (S)                            | 6 LTG (b)      | (.030) U              | A             |
| 3431                                                                            | COMPOSITE | 3/16                           | 5.0 TPG (m)    | U                     | A             | <b>Trulite Glass &amp; Aluminum Solutions ; Grenada, MS</b>        |           |                                |                |                       |               |
| <b>TRACO (Three Rivers Alum) ; Cranberry Township, PA</b>                       |           |                                |                |                       |               | 2787                                                               | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 2488                                                                            | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             | 2788                                                               | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 2489                                                                            | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             | 2789                                                               | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 2490                                                                            | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             | 2840                                                               | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 2678                                                                            | COMPOSITE | 5/16                           | 8.0 TTG        | U                     | A             | 4601                                                               | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 4394                                                                            | COMPOSITE | 1/8                            | 3.0 TPG (s)    | U                     | A             | 4794                                                               | COMPOSITE | 5/32                           | 4.0 TPG (s)    | U                     | A             |
| 4395                                                                            | COMPOSITE | 3/16                           | 5.0 TPG (s)    | U                     | A             | 4743                                                               | COMPOSITE | (S)                            | 5-6 LTG (b)    | (.030) U              | A             |
| 2714                                                                            | COMPOSITE | (S)                            | 6 LTG (b)      | (.030) U              | A             | 4755                                                               | COMPOSITE | (H)                            | 8 LTG (b)      | (.090) U              | A             |
| 2748                                                                            | COMPOSITE | (H)                            | 8-12 LTG (ip)  | (.090) U              | A             | 4744                                                               | COMPOSITE | (H)                            | 10-16+ LTG (b) | (.030) U              | A             |
| 2715                                                                            | COMPOSITE | (H)                            | 8 & 12 LTG (b) | (.060) U              | A             | <b>Trulite Glass &amp; Aluminum Solutions ; Orlando, FL</b>        |           |                                |                |                       |               |
| 2716                                                                            | COMPOSITE | (H)                            | 10 LTG (b)     | (.030) U              | A             | 3461                                                               | COMPOSITE | (S)                            | 6 LTG (b)      | (.030) U              | A             |
| 2719                                                                            | COMPOSITE | (H)                            | 12 LTG (b)     | (.090) U              | A             | <b>Trulite Glass and Aluminum Solutions ; Atlanta, GA</b>          |           |                                |                |                       |               |
| <b>Triple Seal Ltd. ; Toronto, ON Canada</b>                                    |           |                                |                |                       |               | 2959                                                               | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 2481                                                                            | COMP+CAN  | 1/8                            | 3.0 TTG        | U                     | A             | 862                                                                | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 2482                                                                            | COMP+CAN  | 5/32                           | 4.0 TTG        | U                     | A             | 863                                                                | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 3023                                                                            | COMP+CAN  | 3/16                           | 5.0 TTG        | U                     | A             | 865                                                                | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 2484                                                                            | COMP+CAN  | 1/4                            | 6.0 TTG        | U                     | A             | 866                                                                | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| 4356                                                                            | COMP+CAN  | 5/16                           | 8.0 TTG        | U                     | A             | 4089                                                               | COMPOSITE | 5/8                            | 16.0 TTG       | U                     | A             |
| 4357                                                                            | COMP+CAN  | 3/8                            | 10.0 TTG       | U                     | A             | 2960                                                               | COMPOSITE | 3/4                            | 19.0 TTG       | U                     | A             |
| 4358                                                                            | COMP+CAN  | 1/2                            | 12.0 TTG       | U                     | A             | 4090                                                               | COMPOSITE | 1/8                            | 3.0 TPG (s)    | U                     | A             |
| <b>Tri-Star Glass ; Tulsa, OK</b>                                               |           |                                |                |                       |               | 3554                                                               | COMPOSITE | 3/16                           | 5.0 TPG (s)    | U                     | A             |
| 4004                                                                            | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             | 4555                                                               | COMPOSITE | 1/4                            | 6.0 TPG (m)    | U                     | A             |
| 4005                                                                            | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             | 4554                                                               | COMPOSITE | 3/8                            | 10.0 TPG (s)   | U                     | A             |
| 4006                                                                            | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             | 3536                                                               | COMPOSITE | (S)                            | 6 LTG (b)      | (.030) U              | A             |
| 4007                                                                            | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             | <b>Trulite Glass and Aluminum Solutions ; City of Industry, CA</b> |           |                                |                |                       |               |
| 4008                                                                            | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             | 4182                                                               | COMPOSITE | 1/8                            | 3.0 TTG        | U                     | A             |
| 4009                                                                            | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             | 4183                                                               | COMPOSITE | 5/32                           | 4.0 TTG        | U                     | A             |
| 4010                                                                            | COMPOSITE | 5/32                           | 4.0 TPG (s)    | U                     | A             | 4184                                                               | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |
| 4011                                                                            | COMPOSITE | 3/16                           | 5.0 TPG (s)    | U                     | A             | 4185                                                               | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |
| 4410                                                                            | COMPOSITE | (S)                            | 6 LTG (b)      | (.030) U              | A             | 4186                                                               | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |
| 4411                                                                            | COMPOSITE | (H)                            | 10-12 LTG (b)  | (.030) U              | A             | 4187                                                               | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |
| <b>Triview Glass Industries ; City of Industry, CA</b>                          |           |                                |                |                       |               | 4522                                                               | COMPOSITE | 5/8                            | 16.0 TTG       | U                     | A             |
| 5039                                                                            | COMP+CAN  | 5/32                           | 4.0 TTG        | U                     | A             | 4371                                                               | COMPOSITE | 3/4                            | 19.0 TTG       | U                     | A             |
| 5040                                                                            | COMP+CAN  | 3/16                           | 5.0 TTG        | U                     | A             | 4188                                                               | COMPOSITE | 1/8                            | 3.0 TPG (s)    | U                     | A             |
| 5041                                                                            | COMP+CAN  | 1/4                            | 6.0 TTG        | U                     | A             | 4372                                                               | COMPOSITE | 5/32                           | 4.0 TPG (s)    | U                     | A             |
| 5042                                                                            | COMP+CAN  | 5/16                           | 8.0 TTG        | U                     | A             | 4373                                                               | COMPOSITE | 3/16                           | 5.0 TPG (s)    | U                     | A             |
| 5043                                                                            | COMP+CAN  | 3/8                            | 10.0 TTG       | U                     | A             | 4189                                                               | COMPOSITE | 1/4                            | 6.0 TPG (s)    | U                     | A             |
| 5044                                                                            | COMP+CAN  | 1/2                            | 12.0 TTG       | U                     | A             | 4374                                                               | COMPOSITE | 3/8                            | 10.0 TPG (s)   | U                     | A             |
| 5045                                                                            | COMP+CAN  | 5/8                            | 16.0 TTG       | U                     | A             | 4233                                                               | COMPOSITE | (S)                            | 6 LTG (b)      | (.030) U              | A             |
| 5046                                                                            | COMP+CAN  | 3/4                            | 19.0 TTG       | U                     | A             | <b>Trulite Glass and Aluminum Solutions ; Fort Worth</b>           |           |                                |                |                       |               |
| 5047                                                                            | COMP+CAN  | (S)                            | 6 LTG (b)      | (.030) U              | A             | 3603                                                               | COMPOSITE | (S)                            | 6 LTG (b)      | (.030) U              | A             |
| 5048                                                                            | COMP+CAN  | (H)                            | 8 LTG (b)      | (.060) U              | A             |                                                                    |           |                                |                |                       |               |
| <b>Troy Systems LLC ; Manassas, VA</b>                                          |           |                                |                |                       |               |                                                                    |           |                                |                |                       |               |
| 4918                                                                            | COMPOSITE | 3/16                           | 5.0 TTG        | U                     | A             |                                                                    |           |                                |                |                       |               |
| 4061                                                                            | COMPOSITE | 1/4                            | 6.0 TTG        | U                     | A             |                                                                    |           |                                |                |                       |               |
| 4062                                                                            | COMPOSITE | 3/8                            | 10.0 TTG       | U                     | A             |                                                                    |           |                                |                |                       |               |
| 4063                                                                            | COMPOSITE | 1/2                            | 12.0 TTG       | U                     | A             |                                                                    |           |                                |                |                       |               |
| 4302                                                                            | 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 ; Houston, TX</b>      |           |                                |              |                       |               | <b>United Plate Glass Co., Inc. ; Butler, PA</b>                         |           |                                |             |                       |               |
| 4596                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 2467                                                                     | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 3925                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 2468                                                                     | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 3926                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 2469                                                                     | COMPOSITE | 1/4                            | 6.0 TTG     | U                     | A             |
| 3927                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 2470                                                                     | COMPOSITE | 3/8                            | 10.0 TTG    | U                     | A             |
| 3928                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 2471                                                                     | COMPOSITE | 1/2                            | 12.0 TTG    | U                     | A             |
| 3930                                                           | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | 2472                                                                     | COMPOSITE | 3/4                            | 19.0 TTG    | U                     | A             |
| 3931                                                           | COMPOSITE | 3/16                           | 5.0 TPG (s)  | U                     | A             | 2473                                                                     | COMPOSITE | 1/8                            | 3.0 TPG (d) | U                     | A             |
| 4666                                                           | COMPOSITE | (S)                            | 6 LTG (b)    | (.030)                | U A           | 2683                                                                     | COMPOSITE | 5/32                           | 4.0 TPG (d) | U                     | A             |
| 4667                                                           | COMPOSITE | (H)                            | 12 LTG (b)   | (.030)                | U A           | 2474                                                                     | COMPOSITE | 3/16                           | 5.0 TPG (d) | U                     | A             |
| <b>Trulite Glass and Aluminum Solutions ; Indianapolis, IN</b> |           |                                |              |                       |               | 2475                                                                     | COMPOSITE | 1/4                            | 6.0 TPG (m) | U                     | A             |
| 4749                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | <b>United Plate Glass Company of Charlotte ; Lincolnton, NC</b>          |           |                                |             |                       |               |
| 4752                                                           | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 3948                                                                     | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 4922                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 4197                                                                     | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             |
| 4923                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3949                                                                     | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 4754                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 3950                                                                     | COMPOSITE | 1/4                            | 6.0 TTG     | U                     | A             |
| 4753                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 3951                                                                     | COMPOSITE | 3/8                            | 10.0 TTG    | U                     | A             |
| 4750                                                           | COMPOSITE | 3/16                           | 5.0 TPG (s)  | U                     | A             | 3952                                                                     | COMPOSITE | 1/2                            | 12.0 TTG    | U                     | A             |
| <b>Trulite Glass and Aluminum Solutions ; Las Vegas, NV</b>    |           |                                |              |                       |               | 3954                                                                     | COMPOSITE | 1/8                            | 3.0 TPG (d) | U                     | A             |
| 4210                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 4636                                                                     | COMPOSITE | 5/32                           | 4.0 TPG (d) | U                     | A             |
| 4211                                                           | COMPOSITE | 5/32                           | 4.0 TTG      | U                     | A             | 3955                                                                     | COMPOSITE | 3/16                           | 5.0 TPG (d) | U                     | A             |
| 4212                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | <b>Upstate Glass Tempering Inc. ; Middletown, NY</b>                     |           |                                |             |                       |               |
| 4213                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 4926                                                                     | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 4214                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 4927                                                                     | COMPOSITE | 3/8                            | 10.0 TTG    | U                     | A             |
| 4215                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | <b>Vetreteria Valentini S.R.L. ; Brescia, Italy</b>                      |           |                                |             |                       |               |
| 4216                                                           | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             | 2423                                                                     | ANSI ONLY | 5/32                           | 4.0 TTG     | U                     | A             |
| 4217                                                           | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | 4246                                                                     | ANSI ONLY | 5/32                           | 4.0 TBG     | U                     | A             |
| 4218                                                           | COMPOSITE | 5/32                           | 4.0 TPG (m)  | U                     | A             | 2898                                                                     | ANSI ONLY | 1/4                            | 6.0 TBG     | U                     | A             |
| 4219                                                           | COMPOSITE | 3/16                           | 5.0 TPG (m)  | U                     | A             | <b>Vidrio Bisel S.A. de C.V. ; Santa Catarina, Nuevo Leon</b>            |           |                                |             |                       |               |
| 4220                                                           | COMPOSITE | 1/4                            | 6.0 TPG (m)  | U                     | A             | 4966                                                                     | COMPOSITE | 1/4                            | 6.0 TTG     | U                     | A             |
| 4221                                                           | COMPOSITE | 3/8                            | 10.0 TPG (s) | U                     | A             | 4967                                                                     | COMPOSITE | 3/8                            | 10.0 TTG    | U                     | A             |
| <b>Trulite Glass and Aluminum Solutions ; New Berlin, WI</b>   |           |                                |              |                       |               | 4968                                                                     | COMPOSITE | (S)                            | 6 LTG (b)   | (.030)                | U A           |
| 3430                                                           | COMPOSITE | (S)                            | 6 LTG (b)    | (.030)                | U A           | <b>Vidrios El Castillo SC de RL de CV ; Escobedo, Nuevo Leon, Mexico</b> |           |                                |             |                       |               |
| <b>Trulite Glass and Aluminum Solutions ; Pittsburgh, PA</b>   |           |                                |              |                       |               | 3984                                                                     | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 1784                                                           | COMPOSITE | 1/8                            | 3.0 TTG      | U                     | A             | 3985                                                                     | COMPOSITE | 1/4                            | 6.0 TTG     | U                     | A             |
| 1785                                                           | COMPOSITE | 3/16                           | 5.0 TTG      | U                     | A             | 3986                                                                     | COMPOSITE | 3/8                            | 10.0 TTG    | U                     | A             |
| 1786                                                           | COMPOSITE | 1/4                            | 6.0 TTG      | U                     | A             | 3987                                                                     | COMPOSITE | 1/2                            | 12.0 TTG    | U                     | A             |
| 3495                                                           | COMPOSITE | 5/16                           | 8.0 TTG      | U                     | A             | 3988                                                                     | COMPOSITE | 3/4                            | 19.0 TTG    | U                     | A             |
| 1787                                                           | COMPOSITE | 3/8                            | 10.0 TTG     | U                     | A             | 4712                                                                     | COMPOSITE | (S)                            | 6 LTG (b)   | (.015)                | U B           |
| 1788                                                           | COMPOSITE | 1/2                            | 12.0 TTG     | U                     | A             | 4713                                                                     | COMPOSITE | (S)                            | 6 LTG (b)   | (.030)                | U A           |
| 4134                                                           | COMPOSITE | 5/8                            | 16.0 TTG     | U                     | A             | <b>Vidrios Marte SA de CV ; Azcapotzalco, Mexico City, Mexico</b>        |           |                                |             |                       |               |
| 4135                                                           | COMPOSITE | 3/4                            | 19.0 TTG     | U                     | A             | 4041                                                                     | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 4452                                                           | COMPOSITE | 1/8                            | 3.0 TPG (s)  | U                     | A             | 4042                                                                     | COMPOSITE | 1/4                            | 6.0 TTG     | U                     | A             |
| 1790                                                           | COMPOSITE | 3/16                           | 5.0 TPG (s)  | U                     | A             | 4762                                                                     | COMPOSITE | 5/16                           | 8.0 TTG     | U                     | A             |
| 4453                                                           | COMPOSITE | 3/8                            | 10.0 TPG (s) | U                     | A             | <b>View Inc. ; Olive Branch, MS</b>                                      |           |                                |             |                       |               |
| <b>Trulite Glass and Aluminum Solutions ; Youngsville, NC</b>  |           |                                |              |                       |               | 4725                                                                     | COMPOSITE | 1/8                            | 3.0 TTG     | U                     | A             |
| 4437                                                           | COMPOSITE | (S)                            | 6 LTG (b)    | (.030)                | U A           | 4726                                                                     | COMPOSITE | 5/32                           | 4.0 TTG     | U                     | A             |
| <b>Tweddell's Inc. ; Santa Ana, CA</b>                         |           |                                |              |                       |               | 4727                                                                     | COMPOSITE | 3/16                           | 5.0 TTG     | U                     | A             |
| 4993                                                           | COMP+CAN  | 3/16                           | 5.0 TTG      | U                     | A             | 4728                                                                     | COMPOSITE | 1/4                            | 6.0 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>Viracon Inc. ; Owatonna, MN</b>                                          |           |                                |                  |                       |               | <b>Wholesale Glass Dist. ; Memphis, TN</b>                                            |           |                                |               |                       |               |
| 4354                                                                        | COMP+CAN  | 5/32                           | 4.0 TTG          | U                     | A             | 4379                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 1403                                                                        | COMP+CAN  | 3/16                           | 5.0 TTG          | U                     | A             | 4380                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 1404                                                                        | COMP+CAN  | 1/4                            | 6.0 TTG          | U                     | A             | 4381                                                                                  | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 3689                                                                        | COMP+CAN  | 5/16                           | 8.0 TTG          | U                     | A             | 4382                                                                                  | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 1508                                                                        | COMP+CAN  | 3/8                            | 10.0 TTG         | U                     | A             | <b>WSD Glass, Inc. ; Winston-Salem, NC</b>                                            |           |                                |               |                       |               |
| 1509                                                                        | COMP+CAN  | 1/2                            | 12.0 TTG         | U                     | A             | 4048                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 1637                                                                        | COMP+CAN  | (S)                            | 6 LTG (b)        | (.030)                | U A           | 4049                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4249                                                                        | COMP+CAN  | (H)                            | 8-16+ LTG (b)    | (.030)                | U A           | 4052                                                                                  | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4250                                                                        | COMP+CAN  | (H)                            | 12-16+ LTG (ip)  | (.060)                | U A           | 4050                                                                                  | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| <b>Viracon Inc. ; Statesboro, GA</b>                                        |           |                                |                  |                       |               | 4051                                                                                  | COMPOSITE | 3/16                           | 5.0 TPG (s)   | U                     | A             |
| 2314                                                                        | COMP+CAN  | 3/16                           | 5.0 TTG          | U                     | A             | <b>Wujiang CSG Huadong Architectural Glass Co., LTD ;<br/>Wujiang City, China</b>     |           |                                |               |                       |               |
| 2310                                                                        | COMP+CAN  | 1/4                            | 6.0 TTG          | U                     | A             | 4852                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 4720                                                                        | COMP+CAN  | 5/16                           | 8.0 TTG          | U                     | A             | 4853                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 2311                                                                        | COMP+CAN  | 3/8                            | 10.0 TTG         | U                     | A             | 4854                                                                                  | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| 5017                                                                        | COMP+CAN  | (S)                            | 6 LTG (b)        | (.030)                | U A           | 4855                                                                                  | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4779                                                                        | COMP+CAN  | (H)                            | 8-16+ LTG (b)    | (.030)                | U A           | 4856                                                                                  | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| 4784                                                                        | COMP+CAN  | (H)                            | 12 LTG (ip)      | (.090)                | U A           | 4857                                                                                  | COMPOSITE | *                              | 15.0 TTG (3)  | U                     | A             |
| <b>Virginia Glass Products Corp. ; Martinsville, VA</b>                     |           |                                |                  |                       |               | 4859                                                                                  | COMPOSITE | (H)                            | 8-16+ LTG (b) | (.030)                | U A           |
| 12                                                                          | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             | <b>XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.) ;<br/>GuangDong, China</b>          |           |                                |               |                       |               |
| 14                                                                          | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             | 3085                                                                                  | COMP+CAN  | 3/16                           | 5.0 TTG       | U                     | A             |
| 93                                                                          | COMPOSITE | 3/8                            | 10.0 TTG         | U                     | A             | 3053                                                                                  | COMP+CAN  | 1/4                            | 6.0 TTG       | U                     | A             |
| 94                                                                          | COMPOSITE | 1/2                            | 12.0 TTG         | U                     | A             | 4648                                                                                  | COMP+CAN  | 5/16                           | 8.0 TTG       | U                     | A             |
| 2182                                                                        | COMPOSITE | 5/8                            | 16.0 TTG         | U                     | A             | 3054                                                                                  | COMP+CAN  | 3/8                            | 10.0 TTG      | U                     | A             |
| 95                                                                          | COMPOSITE | 3/4                            | 19.0 TTG         | U                     | A             | 3055                                                                                  | COMP+CAN  | 1/2                            | 12.0 TTG      | U                     | A             |
| <b>Vitra Vidrios Transformados SA de CV ; Cortes, Honduras</b>              |           |                                |                  |                       |               | 4179                                                                                  | COMP+CAN  | *                              | 15.0 TTG (3)  | U                     | A             |
| 5037                                                                        | COMPOSITE | 5/32                           | 4.0 TTG          | U                     | A             | 3056                                                                                  | COMP+CAN  | (S)                            | 6 LTG (b)     | (.030)                | U A           |
| 4651                                                                        | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             | 3489                                                                                  | COMP+CAN  | (H)                            | 8-16+ LTG (b) | (.030)                | U A           |
| 4652                                                                        | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             | <b>Yao Xiang Glass Product Co. Ltd. ; Guang Dong China</b>                            |           |                                |               |                       |               |
| 4653                                                                        | COMPOSITE | 5/16                           | 8.0 TTG          | U                     | A             | 3736                                                                                  | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 4654                                                                        | COMPOSITE | 3/8                            | 10.0 TTG         | U                     | A             | 3737                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 4655                                                                        | COMPOSITE | 1/2                            | 12.0 TTG         | U                     | A             | 3738                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 5038                                                                        | COMPOSITE | 1/4                            | 6.0 TPG (d)      | U                     | A             | 3739                                                                                  | COMPOSITE | 5/16                           | 8.0 TTG       | U                     | A             |
| <b>Vitraform, Inc. ; Denver, CO</b>                                         |           |                                |                  |                       |               | 3740                                                                                  | COMPOSITE | 3/8                            | 10.0 TTG      | U                     | A             |
| 4274                                                                        | CPSC ONLY | (H)                            | 10, 19+ LTG (lc) | (.020)                | U             | 3741                                                                                  | COMPOSITE | 1/2                            | 12.0 TTG      | U                     | A             |
| <b>Viwinco, Inc. ; Morgantown, PA</b>                                       |           |                                |                  |                       |               | 3742                                                                                  | COMPOSITE | 3/16                           | 5.0 TBG       | U                     | A             |
| 3074                                                                        | COMPOSITE | 1/8                            | 3.0 TTG          | U                     | A             | 3743                                                                                  | COMPOSITE | 1/4                            | 6.0 TBG       | U                     | A             |
| 3405                                                                        | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             | <b>Yong Feng Tai Foshan City Glas Co., LTD. ; Foshan City,<br/>Guangdong China</b>    |           |                                |               |                       |               |
| 3406                                                                        | COMPOSITE | (S)                            | 6 LTG (b)        | (.090)                | U A           | 4875                                                                                  | ANSI ONLY | 3/16                           | 5.0 TTG       | U                     | A             |
| 3408                                                                        | COMPOSITE | (H)                            | 8 LTG (b)        | (.090)                | U A           | 4876                                                                                  | ANSI ONLY | 1/4                            | 6.0 TTG       | U                     | A             |
| <b>W. A. Wilson Inc. ; Wheeling, WV</b>                                     |           |                                |                  |                       |               | 4877                                                                                  | ANSI ONLY | 5/16                           | 8.0 TTG       | U                     | A             |
| 4169                                                                        | COMPOSITE | 1/8                            | 3.0 TTG          | U                     | A             | <b>Zhangjiagang Weiyu Fabricated Glass Co. Ltd. ;<br/>Zhangjiagang JiangSu, China</b> |           |                                |               |                       |               |
| 4170                                                                        | COMPOSITE | 3/16                           | 5.0 TTG          | U                     | A             | 4093                                                                                  | COMPOSITE | 1/8                            | 3.0 TTG       | U                     | A             |
| 4171                                                                        | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             | 4602                                                                                  | COMPOSITE | 5/32                           | 4.0 TTG       | U                     | A             |
| 4172                                                                        | COMPOSITE | 3/8                            | 10.0 TTG         | U                     | A             | 4094                                                                                  | COMPOSITE | 3/16                           | 5.0 TTG       | U                     | A             |
| 4173                                                                        | COMPOSITE | 1/2                            | 12.0 TTG         | U                     | A             | 4095                                                                                  | COMPOSITE | 1/4                            | 6.0 TTG       | U                     | A             |
| 4174                                                                        | COMPOSITE | 1/8                            | 3.0 TPG (d)      | U                     | A             |                                                                                       |           |                                |               |                       |               |
| 4175                                                                        | COMPOSITE | 3/16                           | 5.0 TPG (d)      | U                     | A             |                                                                                       |           |                                |               |                       |               |
| 4176                                                                        | COMPOSITE | 3/8                            | 10.0 TPG (s)     | U                     | A             |                                                                                       |           |                                |               |                       |               |
| <b>White Aluminum Enterprises LLC ; Abu Dhabi, United<br/>Arab Emirates</b> |           |                                |                  |                       |               |                                                                                       |           |                                |               |                       |               |
| 4598                                                                        | COMPOSITE | 1/4                            | 6.0 TTG          | U                     | A             |                                                                                       |           |                                |               |                       |               |
| 4597                                                                        | COMPOSITE | 5/16                           | 8.0 TTG          | U                     | A             |                                                                                       |           |                                |               |                       |               |

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| <b>SGCC#</b> | <b>TEST STD</b>                                                                                                                                                | <b>INCHES (MM)</b>           | <b>TYPE</b> | <b>MAX SIZE<br/>CERTIFIED</b> | <b>ANSI<br/>CLASS</b> | <b>SGCC#</b> | <b>TEST STD</b> | <b>INCHES (MM)</b>           | <b>TYPE</b> | <b>MAX SIZE<br/>CERTIFIED</b> | <b>ANSI<br/>CLASS</b> |
|--------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------|-------------|-------------------------------|-----------------------|--------------|-----------------|------------------------------|-------------|-------------------------------|-----------------------|
|              |                                                                                                                                                                | <b>(THICKNESS<br/>CLASS)</b> |             |                               |                       |              |                 | <b>(THICKNESS<br/>CLASS)</b> |             |                               |                       |
| <b>TTG</b>   | <b>TEMPERED TRANSPARENT GLASS</b>                                                                                                                              |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>TPG</b>   | <b>TEMPERED PATTERNED GLASS</b>                                                                                                                                |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>TBG</b>   | <b>TEMPERED BENT GLASS</b>                                                                                                                                     |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>TBP</b>   | <b>TEMPERED BENT PATTERNED GLASS</b>                                                                                                                           |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>LTG</b>   | <b>LAMINATED TRANSPARENT GLASS</b>                                                                                                                             |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>LPG</b>   | <b>LAMINATED PATTERNED GLASS</b>                                                                                                                               |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>LSP</b>   | <b>LAMINATED SPECIALTY PRODUCTS</b>                                                                                                                            |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>OCG</b>   | <b>ORGANIC COATED GLASS</b>                                                                                                                                    |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>OCH</b>   | <b>ORGANIC COATED GLASS HYBRID</b>                                                                                                                             |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>SPS</b>   | <b>SAFETY PLASTIC SHEET</b>                                                                                                                                    |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>U</b>     | <b>UNLIMITED SIZE CATEGORY</b>                                                                                                                                 |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>A</b>     | <b>ANSI STANDARD - DROP HEIGHT CLASS - 48 INCH DROP</b>                                                                                                        |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>B</b>     | <b>ANSI STANDARD - DROP HEIGHT CLASS - 18 INCH DROP</b>                                                                                                        |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(S)</b>   | <b>STANDARD THICKNESS CLASS FOR LAMINATED GLASS</b>                                                                                                            |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(H)</b>   | <b>HEAVY THICKNESS CLASS FOR LAMINATED GLASS</b>                                                                                                               |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(2)</b>   | <b>CONFORMS TO EN 572-7 THICKNESS TOLERANCES FOR BENT/CHANNEL GLASS</b>                                                                                        |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(3)</b>   | <b>CONFORMS TO EN 572-2 THICKNESS TOLERANCES FOR TEMPERED GLASS</b>                                                                                            |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(4)</b>   | <b>CONFORMS TO EN 12150 THICKNESS TOLERANCES FOR TEMPERED GLASS</b>                                                                                            |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(5)</b>   | <b>CONFORMS TO EN 572-5 THICKNESS TOLERANCES FOR PATTERNED GLASS</b>                                                                                           |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(6)</b>   | <b>INDOOR USE ONLY</b>                                                                                                                                         |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(s)</b>   | <b>SHALLOW PATTERN</b>                                                                                                                                         |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(m)</b>   | <b>MEDIUM PATTERN</b>                                                                                                                                          |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(d)</b>   | <b>DEEP PATTERN</b>                                                                                                                                            |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(b)</b>   | <b>POLY VINYL BUTRAL INTERLAYER</b>                                                                                                                            |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(ip)</b>  | <b>IONOMER</b>                                                                                                                                                 |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(lc)</b>  | <b>LIQUID RESIN - MULTI COMPONENT</b>                                                                                                                          |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(lu)</b>  | <b>LIQUID RESIN - UV CURE</b>                                                                                                                                  |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(p)</b>   | <b>POLYETHYLENE TEREPHTHALATE</b>                                                                                                                              |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(f)</b>   | <b>FLUORINATED ETHYLENE PROPYLENE INTERLAYER</b>                                                                                                               |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(u)</b>   | <b>POLYURETHANE</b>                                                                                                                                            |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(ev)</b>  | <b>ETHYLENE-VINYL ACETATE</b>                                                                                                                                  |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(c1)</b>  | <b>CPSC CAT 1 ONLY</b>                                                                                                                                         |                              |             |                               |                       |              |                 |                              |             |                               |                       |
| <b>(IN)</b>  | <b>INACTIVE (Products bearing this designation have executed a Test Release Bond waiving testing for this certification period due to inactive production)</b> |                              |             |                               |                       |              |                 |                              |             |                               |                       |



***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               | Alvarado, TX        | 3677          | COMPOSITE       | 175 U         | A                             |                       |
| AGC Flat Glass North America               | Jacksonville, FL    | 3006          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America               | Winnipeg, MB        | 4938          | COMP+CAN        | 150 U         | A                             |                       |
| AGC Flat Glass North America               | Fall River, MA      | 1518          | COMPOSITE       | 400 U         | A                             |                       |
| AGC Flat Glass North America               | Marietta, GA        | 1405          | COMPOSITE       | 165 U         | A                             |                       |
| AGC Flat Glass North America               | Spring Hill, KS     | 1702          | COMPOSITE       | 500 U         | A                             |                       |
| AGC Flat Glass North America               | Salt Lake City, UT  | 4265          | COMPOSITE       | 250 U         | A                             |                       |
| AGC Flat Glass North America               | Richmond, VA        | 2521          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Flat Glass North America               | Knoxville, TN       | 4209          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America               | Opelousas, LA       | 2899          | COMPOSITE       | 550 U         | A                             |                       |
| AGC Flat Glass North America               | San Antonio, TX     | 3645          | COMPOSITE       | 550 U         | A                             |                       |
| AGC Flat Glass North America               | Hebron, OH          | 3663          | COMPOSITE       | 200 U         | A                             |                       |
| AGC Flat Glass North America               | Quakertown, PA      | 2507          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Flat Glass North America               | Greenland, TN       | 598           | COMPOSITE       | 285 U         | A                             |                       |
| AGC Glass Company North America            | Lithia Springs, GA  | 4982          | COMP+CAN        | 165 U         | A                             |                       |
| AGP, LLC                                   | Miramar, FL         | 4715          | COMPOSITE       | 285 U         | A                             |                       |
| Amsco Windows                              | Salt Lake City, UT  | 2578          | COMPOSITE       | 750 U         | A                             |                       |
| Anlin Industries                           | Clovis, CA          | 3360          | COMPOSITE       | 125 U         | A                             |                       |
| Anthony International                      | San Fernando, CA    | 520           | ANSI ONLY       | 250 U         | A                             |                       |
| Anthony International                      | Madison, GA         | 3249          | COMPOSITE       | 165 U         | A                             |                       |
| Architectural Glass Products, LLC          | St. Louis, MO       | 4571          | COMPOSITE       | 100 U         | A                             |                       |
| Basco Engineered Products                  | Hamilton, OH        | 4139          | COMPOSITE       | 200 U         | A                             |                       |
| Blue Star Glass Inc.                       | North Brunswick, NJ | 4517          | COMPOSITE       | 100 U         | A                             |                       |
| Cameron Glass, Inc.                        | Broken Arrow, OK    | 4832          | COMPOSITE       | 500 U         | A                             |                       |
| Cardinal CG                                | Spring Green, WI    | 2067          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal CG                                | Buford, GA          | 1921          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CG                                | Waxahachie, TX      | 2699          | COMPOSITE       | 550 U         | A                             |                       |
| Cardinal CG                                | Loveland, CO        | 3579          | COMPOSITE       | 900 U         | A                             |                       |
| Cardinal CG                                | Tumwater, WA        | 2007          | CPSC ONLY       | 195 U         |                               |                       |
| Cardinal CG                                | Casa Grande, AZ     | 2878          | COMPOSITE       | 250 U         | A                             |                       |
| Cardinal CG                                | Northfield, MN      | 1985          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                | Moreno Valley, CA   | 2293          | CPSC ONLY       | 250 U         |                               |                       |
| Cardinal CG                                | Galt, CA            | 2357          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal FG                                | Durant, OK          | 2909          | COMP+CAN        | 900 U         | A                             |                       |
| Cardinal IG                                | Mountain Top, PA    | 3068          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                | Fremont, IN         | 2176          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                | Vinton, VA          | 2919          | COMPOSITE       | 100 U         | A                             |                       |
| Cardinal IG                                | Waxahachie, TX      | 2328          | COMPOSITE       | 900 U         | A                             |                       |
| Cardinal IG                                | Hood River, OR      | 2831          | COMPOSITE       | 750 U         | A                             |                       |
| Cardinal IG                                | Greenfield, IA      | 1827          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal IG                                | Tomah, WI           | 2317          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal IG                                | Ocala, FL           | 3505          | COMPOSITE       | 285 U         | A                             |                       |
| Cardinal IG                                | Spring Green, WI    | 1831          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal IG                                | Fargo, ND           | 2235          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal Solar Technologies                | Mazomanie, WI       | 4780          | COMPOSITE       | 150 U         | A                             |                       |
| Cardinal TG                                | Chehalis, WA        | 3455          | COMP+CAN        | 750 U         | A                             |                       |
| Cardinal TG                                | Tomah, WI           | 1804          | COMP+CAN        | 600 U         | A                             |                       |
| Catalina Tempering                         | Easton, PA          | 4756          | COMPOSITE       | 100 U         | A                             |                       |
| Catalina Tempering                         | Mount Airy, NC      | 4578          | COMPOSITE       | 165 U         | A                             |                       |
| Catalina Tempering Ohio                    | Utica, Ohio         | 4620          | COMPOSITE       | 100 U         | A                             |                       |
| Changshu Hard Glass Co., Ltd.              | Jiangsu, China      | 2904          | 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>1/8 Inch Tempered Transparent Glass</i>          |                                   |               |                 |               |                               |                       |
| Changshu Lier Building Materials Co. Ltd.           | Changshu City Jiangsu China       | 4260          | COMPOSITE       | 550 U         | A                             |                       |
| Changshu Mingyang Glass Products Co., Ltd.          | Jiangsu, China                    | 4845          | COMPOSITE       | 125 U         | A                             |                       |
| Changshu Xingfu Glass Building Material Co., LTD    | Changshu, Jiangsu Province, China | 4657          | COMPOSITE       | 195 U         | A                             |                       |
| Changshu Zhongxin Bldg. Mat. Co.                    | Changshu City, China              | 2432          | COMP+CAN        | 750 U         | A                             |                       |
| Changshu Zhouxing Glass Co. Ltd.                    | Zhouhang, Changshu, China         | 4936          | CPSC ONLY       | 125 U         |                               |                       |
| Cleer Vision Tempered Glass                         | Elkhart, IN                       | 4546          | COMPOSITE       | 200 U         | A                             |                       |
| Coastal Glass Distributors                          | Charleston, SC                    | 4328          | COMPOSITE       | 285 U         | A                             |                       |
| Columbia Commercial Building Products, Acquisitions | Rockwall, TX                      | 4919          | COMP+CAN        | 175 U         | A                             |                       |
| Commercial Insulating Glass Co.                     | Cumberland City, TN               | 3806          | COMPOSITE       | 165 U         | A                             |                       |
| Commercial Insulating Glass Co.                     | Sarasota, FL                      | 1889          | COMPOSITE       | 185 30x76     | A                             |                       |
| Consolidated Glass Corp.                            | New Castle, PA                    | 1998          | COMPOSITE       | 285 U         | A                             |                       |
| Consolidated Glass Holdings, Inc.                   | S. Easton, MA                     | 3001          | COMPOSITE       | 100 U         | A                             |                       |
| Contour Industries, Inc.                            | Surgoinsville, TN                 | 1680          | COMP+CAN        | 285 U         | A                             |                       |
| Contractors Wardrobe                                | Valencia, CA                      | 3464          | COMP+CAN        | 250 U         | A                             |                       |
| Coral Industries Glass Division                     | Tuscaloosa, AL                    | 3420          | COMPOSITE       | 150 U         | A                             |                       |
| Cuda Glass & Metals                                 | Wixom, MI                         | 4198          | COMPOSITE       | 150 U         | A                             |                       |
| Dallas Flat Glass                                   | Carrollton, TX                    | 4790          | COMPOSITE       | 175 U         | A                             |                       |
| Deqing Sanxing Plastic Chemical Co. Ltd.            | Deqing, Huzhou, China             | 4055          | COMPOSITE       | 750 U         | A                             |                       |
| Dillmeier Enterprise, Inc.                          | Van Buren, AR                     | 4838          | COMPOSITE       | 900 U         | A                             |                       |
| EFCO Corporation                                    | Monett, MO                        | 4121          | COMPOSITE       | 175 U         | A                             |                       |
| Engineered Glass Products, L.L.C.                   | Chicago, IL                       | 4388          | COMPOSITE       | 200 L         | A                             |                       |
| Flat Glass Distributors                             | Jacksonville, FL                  | 3822          | COMPOSITE       | 285 U         | A                             |                       |
| General Glass                                       | Portland, OR                      | 4031          | COMPOSITE       | 750 U         | A                             |                       |
| Glass Dynamics, Inc.                                | Stoneville, NC                    | 2728          | COMPOSITE       | 100 U         | A                             |                       |
| Glasser SA de CV                                    | Estado de Mexico, Mexico          | 4541          | COMPOSITE       | 550 U         | A                             |                       |
| Glasswerks LA, Inc.                                 | South Gate, CA                    | 4804          | COMPOSITE       | 125 U         | A                             |                       |
| Glaz-Tech Industries                                | 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                             |                       |
| Goldray Industries Ltd.                             | Calgary, AB Canada                | 2444          | COMP+CAN        | 195 U         | A                             |                       |
| Grand Glass Windows and Doors Inc.                  | Mobile, AL                        | 4907          | COMPOSITE       | 165 U         | A                             |                       |
| Guardian Industries Corp.                           | Galax, VA                         | 4604          | COMP+CAN        | 285 U         | A                             |                       |
| Guardian Industries Corp.                           | Geneva, NY                        | 2259          | COMPOSITE       | 400 U         | A                             |                       |
| Guardian Industries Corp.                           | Carleton, MI                      | 933           | COMPOSITE       | 200 U         | A                             |                       |
| Guardian Industries Corp.                           | DeWitt, IA                        | 2020          | COMPOSITE       | 500 U         | A                             |                       |
| Guardian Industries Corp.                           | Corsicana, TX                     | 1248          | COMPOSITE       | 550 U         | A                             |                       |
| Guardian Industries Corp.                           | Kingsburg, CA                     | 968           | COMPOSITE       | 125 U         | A                             |                       |
| Guardian Industries Corp.                           | Richburg, SC                      | 1630          | COMPOSITE       | 285 U         | A                             |                       |
| Guardian Webster, Inc.                              | Webster, MA                       | 300           | COMPOSITE       | 100 U         | A                             |                       |
| Insulated Glass of America, Inc.                    | Dallas, NC                        | 3859          | COMPOSITE       | 800 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                             |                       |
| JYC Glass Co. Ltd.                                  | Zhangcha, Foshan China            | 3957          | COMPOSITE       | 125 U         | A                             |                       |
| Kohler Company                                      | Union City, TN                    | 1979          | COMPOSITE       | 550 U         | A                             |                       |
| Maryland Glass & Mirror                             | Baltimore, MD                     | 4318          | COMPOSITE       | 100 U         | A                             |                       |
| Multiver                                            | Vanier, QC                        | 2498          | COMPOSITE       | 400 U         | A                             |                       |
| Nashville Tempered Glass Corp.                      | Nashville, TN                     | 1416          | COMPOSITE       | 285 U         | A                             |                       |
| New Angle Beveling                                  | Hyde, PA                          | 4593          | 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>1/8 Inch Tempered Transparent Glass</i>        |                               |               |                 |               |                               |                       |
| Northwest Glass, Inc.                             | Billings, MT                  | 3649          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Fremont, CA                   | 3191          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Burnaby, BC                   | 3286          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Schofield, WI                 | 3167          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Perrysburg, OH                | 3233          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Grand Prairie, TX             | 3250          | COMPOSITE       | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Vancouver, WA                 | 3219          | COMPOSITE       | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Rock Hill, SC                 | 3276          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Tampa, FL                     | 3116          | COMPOSITE       | 185 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Albertville, MN               | 3104          | COMPOSITE       | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Miami, FL                     | 3496          | COMPOSITE       | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Moorestown, NJ                | 3180          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Denver, CO                    | 3310          | COMPOSITE       | 550 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Calgary, AB                   | 3263          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Warrenton, MO                 | 3144          | COMPOSITE       | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Concord, ON                   | 3439          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Wright City, MO               | 3137          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Montreal, QC Canada           | 1996          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Hauppauge, NY                 | 1546          | COMPOSITE       | 400 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Los Angeles, CA               | 1608          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Phoenix, AZ                   | 3128          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Covington, GA                 | 3329          | COMPOSITE       | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Indianapolis, IN              | 2210          | COMPOSITE       | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Shawnee, OK                   | 3095          | COMPOSITE       | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                       | Houston, TX                   | 3156          | COMPOSITE       | 175 U         | A                             |                       |
| Patio Enclosures                                  | Macedonia, OH                 | 2056          | COMPOSITE       | 200 U         | A                             |                       |
| Perficom, S.A. de C.V.                            | San Juan, Mexico              | 4512          | COMPOSITE       | 175 U         | A                             |                       |
| PPG Glass                                         | Langley, BC                   | 3538          | COMP+CAN        | 750 U         | A                             |                       |
| PGT Industries                                    | Nokomis, FL                   | 2389          | COMPOSITE       | 285 U         | A                             |                       |
| PPG Inds. Inc.                                    | Burlington, IA                | 1605          | COMPOSITE       | 500 U         | A                             |                       |
| PPG Inds. Inc.                                    | Carlisle, PA                  | 250           | COMP+CAN        | 400 U         | A                             |                       |
| PPG Inds., Inc.                                   | Wichita Falls, TX             | 1110          | COMPOSITE       | 550 U         | A                             |                       |
| Prelco Inc.                                       | Saint-Jacques, New Brunswick  | 4911          | COMPOSITE       | 100 U         | A                             |                       |
| Prelco Inc.                                       | Riviere-du-loup, QC           | 2034          | COMP+CAN        | 100 U         | A                             |                       |
| Qinhuangdao Detai Tempered Glass Co., Ltd.        | Qinhuangdao City, Hebei China | 4156          | COMPOSITE       | 100 U         | A                             |                       |
| Qinhuangdao High-Tech Energy-Saving Dorwin Co Ltd | Qinhuangdao City, China       | 4635          | COMPOSITE       | 100 U         | A                             |                       |
| Qinhuangdao Kunping Safety Glass Co. Ltd.         | Qinhuangdao City, China       | 3730          | COMPOSITE       | 100 U         | A                             |                       |
| QinHuangDao Tianrui Tempered Technology Glass Co. | Qinhuangdao, China            | 3690          | COMPOSITE       | 100 U         | A                             |                       |
| Quaker Window Products, Inc.                      | Freeburg, MO                  | 2985          | COMP+CAN        | 150 U         | A                             |                       |
| RF Supply, Inc.                                   | Bradenton, FL                 | 4222          | COMPOSITE       | 185 U         | A                             |                       |
| SAAND Rexdale                                     | Rexdale, ON Canada            | 2801          | COMP+CAN        | 400 U         | A                             |                       |
| Saint-Gobain SOVIS                                | Thierry, France               | 2769          | COMPOSITE       | 400 U         | A                             |                       |
| SCHOTT Gemtron - Sweetwater                       | Sweetwater, TN                | 1334          | COMP+CAN        | 285 U         | A                             |                       |
| SCHOTT Gemtron (Canada) Corporation               | Midland, ON Canada            | 3067          | COMPOSITE       | 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                             |                       |
| Southwest Glass Products Inc.                     | London, Ontario Canada        | 3978          | COMP+CAN        | 400 U         | A                             |                       |
| Spec-Temp, Inc.                                   | Antwerp, OH                   | 2684          | COMPOSITE       | 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>1/8 Inch Tempered Transparent Glass</i>         |                                   |               |                 |               |                               |                       |
| Swift Glass Co., Inc.                              | Elmira Heights, NY                | 1555          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                           | Syracuse, NY                      | 2654          | COMPOSITE       |               | 100 U                         | A                     |
| Tai Shan City Da Heng Art Glass Ltd.               | Guangdong, China                  | 3787          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                 | Surgoinsville, TN                 | 2547          | COMPOSITE       |               | 285 U                         | A                     |
| Tecnolglass S.A.                                   | Barranquilla, Colombia            | 2133          | COMP+CAN        |               | 800 U                         | A                     |
| Texas Tempered Glass Inc.                          | Houston, TX                       | 4847          | COMPOSITE       |               | 175 U                         | A                     |
| Thermal Seal Insulating Glass                      | Uxbridge, MA                      | 4830          | COMPOSITE       |               | 285 U                         | A                     |
| Thermo BSL                                         | Riviere-du-loup, QC               | 4290          | COMPOSITE       |               | 800 U                         | A                     |
| Thermoseal Glass Corp.                             | Gloucester City, NJ               | 4468          | COMPOSITE       |               | 100 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Tian Jin, China                   | 2889          | COMPOSITE       |               | 250 U                         | A                     |
| TRACO (Three Rivers Alum)                          | Cranberry Township, PA            | 2488          | COMPOSITE       |               | 100 U                         | A                     |
| Triple Seal Ltd.                                   | Toronto, ON Canada                | 2481          | COMP+CAN        |               | 400 U                         | A                     |
| Tri-Star Glass                                     | Tulsa, OK                         | 4004          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass & Aluminum Solutions                 | Columbus, OH                      | 4745          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass & Aluminum Solutions                 | Grenada, MS                       | 2787          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Pittsburgh, PA                    | 1784          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Indianapolis, IN                  | 4749          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Houston, TX                       | 4596          | COMPOSITE       |               | 550 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Atlanta, GA                       | 2959          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Las Vegas, NV                     | 4210          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | City of Industry, CA              | 4182          | COMPOSITE       |               | 250 U                         | A                     |
| United Plate Glass Co., Inc.                       | Butler, PA                        | 2467          | COMPOSITE       |               | 100 U                         | A                     |
| United Plate Glass Company of Charlotte            | Lincolnton, NC                    | 3948          | COMPOSITE       |               | 100 U                         | A                     |
| Upstate Glass Tempering Inc.                       | Middletown, NY                    | 4926          | COMPOSITE       |               | 400 U                         | A                     |
| Vidrios El Castillo SC de RL de CV                 | Escobedo, Nuevo Leon, Mexico      | 3984          | COMPOSITE       |               | 550 U                         | A                     |
| Vidrios Marte SA de CV                             | Azcapotzalco, Mexico City, Mexico | 4041          | COMPOSITE       |               | 900 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                     |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.       | Zhangjiagang JiangSu, China       | 4093          | COMPOSITE       |               | 250 U                         | A                     |
| <i>5/32 Inch Tempered Transparent Glass</i>        |                                   |               |                 |               |                               |                       |
| AGC Flat Glass North America                       | Richmond, VA                      | 2480          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Flat Glass North America                       | Opelousas, LA                     | 3705          | COMPOSITE       |               | 550 U                         | A                     |
| AGC Flat Glass North America                       | Marietta, GA                      | 1967          | COMPOSITE       |               | 165 U                         | A                     |
| AGC Flat Glass North America                       | Winnipeg, MB                      | 4939          | COMP+CAN        |               | 150 U                         | A                     |
| AGC Flat Glass North America                       | Salt Lake City, UT                | 4478          | COMPOSITE       |               | 250 U                         | A                     |
| AGC Flat Glass North America                       | Quakertown, PA                    | 3421          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Flat Glass North America                       | San Antonio, TX                   | 3646          | COMPOSITE       |               | 550 U                         | A                     |
| AGC Flat Glass North America                       | Jacksonville, FL                  | 3786          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                       | Knoxville, TN                     | 4827          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                       | Fall River, MA                    | 3553          | COMPOSITE       |               | 400 U                         | A                     |
| AGC Flat Glass North America                       | Greenland, TN                     | 955           | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                       | Spring Hill, KS                   | 1703          | COMPOSITE       |               | 500 U                         | A                     |
| AGC Flat Glass North America                       | Hebron, OH                        | 3091          | COMPOSITE       |               | 200 U                         | A                     |
| AGC Glass Company North America                    | Lithia Springs, GA                | 4983          | COMP+CAN        |               | 165 U                         | A                     |
| All Team Glass & Mirror, Ltd.                      | Woodbridge, ON Canada             | 1754          | COMPOSITE       |               | 100 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                     |

***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           |                                   |               |                 |               |                               |                       |
| Cardinal CG                                    | Waxahachie, TX                    | 2700          | COMPOSITE       |               | 550 U                         | A                     |
| Cardinal CG                                    | Loveland, CO                      | 3580          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal CG                                    | Northfield, MN                    | 1986          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal CG                                    | Spring Green, WI                  | 2068          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal CG                                    | Tumwater, WA                      | 2008          | CPSC ONLY       |               | 195 U                         |                       |
| Cardinal CG                                    | Galt, CA                          | 2358          | COMPOSITE       |               | 125 U                         | A                     |
| Cardinal CG                                    | Buford, GA                        | 1922          | COMPOSITE       |               | 165 U                         | A                     |
| Cardinal CG                                    | Casa Grande, AZ                   | 2879          | COMPOSITE       |               | 250 U                         | A                     |
| Cardinal CG                                    | Moreno Valley, CA                 | 2294          | CPSC ONLY       |               | 250 U                         |                       |
| Cardinal FG                                    | Durant, OK                        | 2910          | COMP+CAN        |               | 900 U                         | A                     |
| Cardinal IG                                    | Mountain Top, PA                  | 3069          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal IG                                    | Waxahachie, TX                    | 2329          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal IG                                    | Ocala, FL                         | 3506          | COMPOSITE       |               | 285 U                         | A                     |
| Cardinal IG                                    | Greenfield, IA                    | 1828          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal IG                                    | Spring Green, WI                  | 1832          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal IG                                    | Fargo, ND                         | 2234          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                    | Hood River, OR                    | 2858          | COMPOSITE       |               | 750 U                         | A                     |
| Cardinal IG                                    | Fremont, IN                       | 2177          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                    | Vinton, VA                        | 2920          | COMPOSITE       |               | 100 U                         | A                     |
| Cardinal IG                                    | Tomah, WI                         | 2318          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal Solar Technologies                    | Mazomanie, WI                     | 4781          | COMPOSITE       |               | 150 U                         | A                     |
| Cardinal Tempering                             | Louisville, KY                    | 3871          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal TG                                    | Chehalis, WA                      | 3456          | COMP+CAN        |               | 750 U                         | A                     |
| Cardinal TG                                    | Tomah, WI                         | 1805          | COMP+CAN        |               | 600 U                         | A                     |
| Catalina Tempering                             | Mount Airy, NC                    | 4579          | COMPOSITE       |               | 165 U                         | A                     |
| Catalina Tempering                             | Easton, PA                        | 4757          | COMPOSITE       |               | 100 U                         | A                     |
| Catalina Tempering Ohio                        | Utica, Ohio                       | 4621          | COMPOSITE       |               | 100 U                         | A                     |
| Changshu Hard Glass Co., Ltd.                  | Jiangsu, China                    | 2987          | COMPOSITE       |               | 125 U                         | A                     |
| Changshu Zhouxing Glass Co. Ltd.               | Zhouhang, Changshu, China         | 4937          | CPSC ONLY       |               | 125 U                         |                       |
| Chicago Tempered Glass, Inc.                   | Chicago, IL                       | 3086          | COMPOSITE       |               | 200 U                         | A                     |
| Cleer Vision Tempered Glass                    | Elkhart, IN                       | 4547          | COMPOSITE       |               | 200 U                         | A                     |
| Coastal Glass Distributors                     | Charleston, SC                    | 4329          | COMPOSITE       |               | 285 U                         | A                     |
| Consolidated Glass Corp.                       | New Castle, PA                    | 1999          | COMPOSITE       |               | 285 U                         | A                     |
| Contour Industries, Inc.                       | Surgoinsville, TN                 | 4285          | COMP+CAN        |               | 285 U                         | A                     |
| Contractors Wardrobe                           | Valencia, CA                      | 3465          | COMP+CAN        |               | 250 U                         | A                     |
| Custom Glass Solutions Millbury Corp.          | Millbury, OH                      | 1575          | COMPOSITE       |               | 200 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.       | Deqing, Huzhou, China             | 4056          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                              | Langley, BC Canada                | 4499          | COMPOSITE       |               | 750 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.     | Dongguan City China               | 3932          | COMPOSITE       |               | 125 U                         | A                     |
| Dongguan Taisheng Glass Co., Ltd.              | Dongguan City, Guang Dong China   | 4870          | COMPOSITE       |               | 285 U                         | A                     |
| Dongguan Trillion Aluminum Glass Co., Ltd      | Dongguan City, Guangdong Province | 5028          | COMPOSITE       |               | 285 U                         | A                     |
| EFI                                            | Kernersville, NC                  | 5014          | COMP+CAN        |               | 200 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        |               | 125 U                         | A                     |
| General Glass                                  | Portland, OR                      | 4032          | COMPOSITE       |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                   | Secaucus, NJ                      | 2928          | COMPOSITE       |               | 100 U                         | A                     |
| Goldray Industries Ltd.                        | Calgary, AB Canada                | 2445          | COMP+CAN        |               | 195 U                         | A                     |
| Grand Glass Windows and Doors Inc.             | Mobile, AL                        | 4908          | 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>5/32 Inch Tempered Transparent Glass</i> |                              |               |                 |               |                               |                       |
| GSA Armourplate                             | Cape Town, South Africa      | 4887          | COMPOSITE       | 100 U         | A                             |                       |
| Guardian Industries Corp.                   | Corsicana, TX                | 1249          | COMPOSITE       | 550 U         | A                             |                       |
| Guardian Industries Corp.                   | Richburg, SC                 | 1631          | COMPOSITE       | 285 U         | A                             |                       |
| Guardian Industries Corp.                   | Galax, VA                    | 4605          | COMP+CAN        | 285 U         | A                             |                       |
| Guardian Industries Corp.                   | DeWitt, IA                   | 2021          | COMPOSITE       | 500 U         | A                             |                       |
| Guardian Industries Corp.                   | Kingsburg, CA                | 969           | COMPOSITE       | 125 U         | A                             |                       |
| Guardian Industries Corp.                   | Carleton, MI                 | 934           | COMPOSITE       | 200 U         | A                             |                       |
| Guardian Industries Corp.                   | Geneva, NY                   | 2260          | COMPOSITE       | 400 U         | A                             |                       |
| Guardian Webster, Inc.                      | Webster, MA                  | 1607          | COMPOSITE       | 100 U         | A                             |                       |
| Insulated Glass of America, Inc.            | Dallas, NC                   | 3860          | COMPOSITE       | 800 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 Co., Ltd     | Jiangmen, China              | 4303          | COMP+CAN        | 125 U         | A                             |                       |
| JYC Glass Co. Ltd.                          | Zhangcha, Foshan China       | 3958          | COMPOSITE       | 125 U         | A                             |                       |
| Kohler Company                              | Union City, TN               | 1980          | COMPOSITE       | 550 U         | A                             |                       |
| Multiver                                    | Vanier, QC                   | 2629          | COMPOSITE       | 400 U         | A                             |                       |
| Nashville Tempered Glass Corp.              | Nashville, TN                | 2497          | COMPOSITE       | 285 U         | A                             |                       |
| Nashville Tempered Glass LLC                | Hendersonville, TN           | 2691          | COMPOSITE       | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Houston, TX                  | 3157          | COMPOSITE       | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Covington, GA                | 3330          | COMPOSITE       | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Denver, CO                   | 3311          | COMPOSITE       | 550 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Phoenix, AZ                  | 3129          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Los Angeles, CA              | 1609          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Shawnee, OK                  | 3096          | COMPOSITE       | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Calgary, AB                  | 3264          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Rock Hill, SC                | 3462          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Warrenton, MO                | 3145          | COMPOSITE       | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Perrysburg, OH               | 3234          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Albertville, MN              | 3105          | COMPOSITE       | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Schofield, WI                | 3168          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Concord, ON                  | 3440          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Burnaby, BC                  | 3287          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Vancouver, WA                | 3220          | COMPOSITE       | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Indianapolis, IN             | 2216          | COMPOSITE       | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Montreal, QC Canada          | 4247          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Fremont, CA                  | 3192          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Moorestown, NJ               | 3181          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Wright City, MO              | 3138          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                 | Grand Prairie, TX            | 3251          | COMPOSITE       | 175 U         | A                             |                       |
| Patio Enclosures                            | Macedonia, OH                | 2057          | COMPOSITE       | 200 U         | A                             |                       |
| PFG Glass                                   | Langley, BC                  | 3539          | COMP+CAN        | 750 U         | A                             |                       |
| PPG Inds. Inc.                              | Carlisle, PA                 | 675           | COMP+CAN        | 400 U         | A                             |                       |
| PPG Inds. Inc.                              | Burlington, IA               | 1606          | COMPOSITE       | 500 U         | A                             |                       |
| PPG Inds., Inc.                             | Wichita Falls, TX            | 1111          | COMPOSITE       | 550 U         | A                             |                       |
| Prelco Inc.                                 | Riviere-du-loup, QC          | 2035          | COMP+CAN        | 100 U         | A                             |                       |
| Prelco Inc.                                 | Saint-Jacques, New Brunswick | 4912          | COMPOSITE       | 100 U         | A                             |                       |
| PT Abebersa Pratama                         | Bekasi, Indonesia            | 3905          | COMPOSITE       | 125 U         | A                             |                       |
| SAAND Rexdale                               | Rexdale, ON Canada           | 2802          | COMP+CAN        | 400 U         | A                             |                       |
| SCHOTT Gemtron - Sweetwater                 | Sweetwater, TN               | 1332          | COMP+CAN        | 285 U         | A                             |                       |

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|----------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/32 Inch Tempered Transparent Glass</i>        |                             |               |                 |               |                               |                       |
| SCHOTT Gemtron (Canada) Corporation                | Midland, ON Canada          | 3659          | COMPOSITE       | 100 U         | A                             |                       |
| Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE | Shanghai, China             | 4067          | COMPOSITE       | 125 U         | A                             |                       |
| SIGCO, Inc.                                        | Westbrook, ME               | 2962          | COMPOSITE       | 100 U         | A                             |                       |
| Southwest Glass Products Inc.                      | London, Ontario Canada      | 4278          | COMP+CAN        | 400 U         | A                             |                       |
| Spec-Temp, Inc.                                    | Antwerp, OH                 | 2685          | COMPOSITE       | 500 U         | A                             |                       |
| Tai Shan City Da Heng Art Glass Ltd.               | Guangdong, China            | 3788          | COMPOSITE       | 750 U         | A                             |                       |
| Taiwan Glass Industry Corporation                  | Taipei, Taiwan, ROC         | 3886          | COMPOSITE       | 750 U         | A                             |                       |
| Techni-Glass, Inc.                                 | Surgoinsville, TN           | 2548          | COMPOSITE       | 285 U         | A                             |                       |
| Tecnolglass S.A.                                   | Barranquilla, Colombia      | 2287          | COMP+CAN        | 800 U         | A                             |                       |
| Thermal Seal Insulating Glass                      | Uxbridge, MA                | 4822          | COMPOSITE       | 285 U         | A                             |                       |
| Thermo BSL                                         | Riviere-du-loup, QC         | 4291          | COMPOSITE       | 800 U         | A                             |                       |
| Tianjin CSG Architectural Glass Co., Ltd.          | Tianjin, China              | 4021          | COMPOSITE       | 100 U         | A                             |                       |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Tian Jin, China             | 4035          | COMPOSITE       | 250 U         | A                             |                       |
| Triple Seal Ltd.                                   | Toronto, ON Canada          | 2482          | COMP+CAN        | 400 U         | A                             |                       |
| Tri-Star Glass                                     | 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               | Las Vegas, NV               | 4211          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions               | Indianapolis, IN            | 4752          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions               | City of Industry, CA        | 4183          | COMPOSITE       | 250 U         | A                             |                       |
| United Plate Glass Company of Charlotte            | Lincolnton, NC              | 4197          | COMPOSITE       | 100 U         | A                             |                       |
| Vetzeria Valentini S.R.L.                          | Brescia, Italy              | 2423          | ANSI ONLY       | 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                             |                       |
| Yao Xiang Glass Product Co. Ltd.                   | Guang Dong China            | 3736          | COMPOSITE       | 285 U         | A                             |                       |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.       | Zhangjiagang JiangSu, China | 4602          | COMPOSITE       | 250 U         | A                             |                       |
| <i>3/16 Inch Tempered Transparent Glass</i>        |                             |               |                 |               |                               |                       |
| AGC Flat Glass North America                       | Greenland, TN               | 220           | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America                       | Knoxville, TN               | 4152          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America                       | Salt Lake City, UT          | 4266          | COMPOSITE       | 250 U         | A                             |                       |
| AGC Flat Glass North America                       | Alvarado, TX                | 3814          | COMPOSITE       | 175 U         | A                             |                       |
| AGC Flat Glass North America                       | San Antonio, TX             | 3839          | COMPOSITE       | 550 U         | A                             |                       |
| AGC Flat Glass North America                       | Spring Hill, KS             | 1704          | COMPOSITE       | 500 U         | A                             |                       |
| AGC Flat Glass North America                       | Opelousas, LA               | 2900          | COMPOSITE       | 550 U         | A                             |                       |
| AGC Flat Glass North America                       | Marietta, GA                | 1230          | COMPOSITE       | 165 U         | A                             |                       |
| AGC Flat Glass North America                       | Richmond, VA                | 2522          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Flat Glass North America                       | Quakertown, PA              | 2509          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Flat Glass North America                       | Jacksonville, FL            | 3007          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America                       | Hebron, OH                  | 2197          | COMPOSITE       | 200 U         | A                             |                       |
| AGC Flat Glass North America                       | Fall River, MA              | 3648          | COMPOSITE       | 400 U         | A                             |                       |
| AGC Flat Glass North America                       | Winnipeg, MB                | 4940          | COMP+CAN        | 150 U         | A                             |                       |
| AGC Glass Company North America                    | Lithia Springs, GA          | 4984          | COMP+CAN        | 165 U         | A                             |                       |
| AGP, LLC                                           | Miramar, FL                 | 4716          | COMPOSITE       | 285 U         | A                             |                       |
| Al Abbar Architectural Glass                       | Dubai, United Arab Emirates | 4846          | COMPOSITE       | 100 U         | A                             |                       |
| All Team Glass & Mirror, Ltd.                      | Woodbridge, ON Canada       | 1755          | COMPOSITE       | 100 U         | A                             |                       |
| American Shower Door                               | Los Angeles, CA             | 4616          | COMPOSITE       | 250 U         | A                             |                       |
| Amsco Windows                                      | Salt Lake City, UT          | 2580          | COMPOSITE       | 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> |
|-----------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/16 Inch Tempered Transparent Glass                |                             |               |                 |               |                               |                       |
| Anlin Industries                                    | Clovis, CA                  | 3079          | COMPOSITE       |               | 125 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       |               | 550 U                         | A                     |
| Basco Engineered Products                           | Hamilton, OH                | 4724          | COMPOSITE       |               | 200 U                         | A                     |
| Blue Star Glass Inc.                                | North Brunswick, NJ         | 4518          | COMPOSITE       |               | 100 U                         | A                     |
| Cameron Glass, Inc.                                 | Broken Arrow, OK            | 2501          | COMPOSITE       |               | 500 U                         | A                     |
| Cardinal CG                                         | Buford, GA                  | 1923          | COMPOSITE       |               | 165 U                         | A                     |
| Cardinal CG                                         | Spring Green, WI            | 2069          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal CG                                         | Moreno Valley, CA           | 2295          | CPSC ONLY       |               | 250 U                         |                       |
| Cardinal CG                                         | Galt, CA                    | 2359          | COMPOSITE       |               | 125 U                         | A                     |
| Cardinal CG                                         | Loveland, CO                | 3581          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal CG                                         | Waxahachie, TX              | 2701          | COMPOSITE       |               | 550 U                         | A                     |
| Cardinal CG                                         | Northfield, MN              | 1987          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal CG                                         | Casa Grande, AZ             | 2880          | COMPOSITE       |               | 250 U                         | A                     |
| Cardinal CG                                         | Tumwater, WA                | 2009          | CPSC ONLY       |               | 195 U                         |                       |
| Cardinal FG                                         | Durant, OK                  | 2911          | COMP+CAN        |               | 900 U                         | A                     |
| Cardinal IG                                         | Hood River, OR              | 2833          | COMPOSITE       |               | 750 U                         | A                     |
| Cardinal IG                                         | Waxahachie, TX              | 2330          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal IG                                         | Fargo, ND                   | 2233          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                         | Vinton, VA                  | 2921          | COMPOSITE       |               | 100 U                         | A                     |
| Cardinal IG                                         | Mountain Top, PA            | 3070          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal IG                                         | Fremont, IN                 | 2178          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                         | Tomah, WI                   | 2319          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal IG                                         | Greenfield, IA              | 1829          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal IG                                         | Ocala, FL                   | 3507          | COMPOSITE       |               | 285 U                         | A                     |
| Cardinal IG                                         | Spring Green, WI            | 1833          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal LG                                         | Amery, WI                   | 4840          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal Solar Technologies                         | Mazomanie, WI               | 4782          | COMPOSITE       |               | 150 U                         | A                     |
| Cardinal Tempering                                  | Louisville, KY              | 3872          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal TG                                         | Tomah, WI                   | 1806          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal TG                                         | Chehalis, WA                | 3458          | COMP+CAN        |               | 750 U                         | A                     |
| Catalina Tempering                                  | Easton, PA                  | 4758          | COMPOSITE       |               | 100 U                         | A                     |
| Catalina Tempering                                  | Mount Airy, NC              | 4580          | COMPOSITE       |               | 165 U                         | A                     |
| Catalina Tempering Ohio                             | Utica, Ohio                 | 4622          | COMPOSITE       |               | 100 U                         | A                     |
| Changshu Hard Glass Co., Ltd.                       | Jiangsu, China              | 2988          | COMPOSITE       |               | 125 U                         | A                     |
| Changshu Lier Building Materials Co. Ltd.           | Changshu City Jiangsu China | 4261          | COMPOSITE       |               | 550 U                         | A                     |
| Chicago Tempered Glass, Inc.                        | Chicago, IL                 | 3087          | COMPOSITE       |               | 200 U                         | A                     |
| Coastal Glass Distributors                          | Charleston, SC              | 4330          | COMPOSITE       |               | 285 U                         | A                     |
| Columbia Commercial Building Products, Acquisitions | Rockwall, TX                | 4920          | COMP+CAN        |               | 175 U                         | A                     |
| Commercial Insulating Glass Co.                     | Cumberland City, TN         | 3807          | COMPOSITE       |               | 165 U                         | A                     |
| Commercial Insulating Glass Co.                     | Sarasota, FL                | 1890          | COMPOSITE       |               | 185 30x76                     | A                     |
| Consolidated Glass Corp.                            | New Castle, PA              | 2005          | COMPOSITE       |               | 285 U                         | A                     |
| Consolidated Glass Holdings, Inc.                   | S. Easton, MA               | 1871          | COMPOSITE       |               | 100 U                         | A                     |
| Contour Industries, Inc.                            | Surgoinsville, TN           | 1678          | COMP+CAN        |               | 285 U                         | A                     |
| Contractors Wardrobe                                | Valencia, CA                | 3466          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                     | Tuscaloosa, AL              | 1910          | COMPOSITE       |               | 150 U                         | A                     |
| Cuda Glass & Metals                                 | Wixom, MI                   | 4199          | COMPOSITE       |               | 150 U                         | A                     |
| Custom Glass Solutions Millbury Corp.               | Millbury, OH                | 1576          | COMPOSITE       |               | 200 U                         | A                     |
| D3 Glass, LLC                                       | Fort Myers, FL              | 4834          | 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>3/16 Inch Tempered Transparent Glass</i>    |                             |               |                 |               |                               |                       |
| Dallas Flat Glass                              | Carrollton, TX              | 4763          | COMPOSITE       | 175 U         | A                             |                       |
| Denver Glass Interiors, Inc.                   | Englewood, CO               | 3865          | COMPOSITE       | 175 U         | A                             |                       |
| Deqing Sanxing Plastic Chemical Co. Ltd.       | Deqing, Huzhou, 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       | 900 U         | A                             |                       |
| Dong Sung Glass Korea, Co., Ltd.               | Inchon, Korea               | 2709          | COMP+CAN        | 250 U         | A                             |                       |
| Dongguan CSG Architectural Glass Co., Ltd.     | Dongguan City China         | 3933          | COMPOSITE       | 125 U         | A                             |                       |
| Downey Glass Industries, LLC                   | Pompano Beach, FL           | 2661          | COMPOSITE       | 285 U         | A                             |                       |
| EFCO Corporation                               | Monett, MO                  | 1901          | COMPOSITE       | 175 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                             |                       |
| Foshan Nanhai Gangsheng Tempered Glass Factory | Foshan Guangdong China      | 4669          | COMP+CAN        | 125 U         | A                             |                       |
| General Glass                                  | Portland, OR                | 4033          | COMPOSITE       | 750 U         | A                             |                       |
| GGI Glass Distributors Corp.                   | Secaucus, NJ                | 2226          | COMPOSITE       | 100 U         | A                             |                       |
| Glass Dynamics, Inc.                           | Stoneville, NC              | 2730          | COMPOSITE       | 100 U         | A                             |                       |
| Glass Enterprises, Inc.                        | Bensalem, PA                | 4628          | COMPOSITE       | 100 U         | A                             |                       |
| Glasswerks LA, Inc.                            | South Gate, CA              | 4805          | COMPOSITE       | 125 U         | A                             |                       |
| Glaz-Tech Industries                           | 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 Industries Corp.                      | Geneva, NY                  | 2261          | COMPOSITE       | 400 U         | A                             |                       |
| Guardian Industries Corp.                      | Galax, VA                   | 4606          | COMP+CAN        | 285 U         | A                             |                       |
| Guardian Industries Corp.                      | Kingsburg, CA               | 970           | COMPOSITE       | 125 U         | A                             |                       |
| Guardian Industries Corp.                      | Carleton, MI                | 631           | COMPOSITE       | 200 U         | A                             |                       |
| Guardian Industries Corp.                      | Corsicana, TX               | 1250          | COMPOSITE       | 550 U         | A                             |                       |
| Guardian Industries Corp.                      | DeWitt, IA                  | 2022          | COMPOSITE       | 500 U         | A                             |                       |
| Guardian Industries Corp.                      | Richburg, SC                | 1632          | COMPOSITE       | 285 U         | A                             |                       |
| Guardian Webster, Inc.                         | Webster, MA                 | 1216          | COMPOSITE       | 100 U         | A                             |                       |
| Industrial Tempering Glass                     | Brooklyn, NY                | 3386          | COMPOSITE       | 100 U         | A                             |                       |
| Insulated Glass of America, Inc.               | Dallas, NC                  | 3861          | COMPOSITE       | 800 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                             |                       |
| 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 Co., Ltd        | Jiangmen, China             | 4304          | COMP+CAN        | 125 U         | A                             |                       |
| JYC Glass Co. Ltd.                             | Zhangcha, Foshan China      | 3959          | COMPOSITE       | 125 U         | A                             |                       |
| Kohler Company                                 | Union City, TN              | 1981          | COMPOSITE       | 550 U         | A                             |                       |
| Maryland Glass & Mirror                        | Baltimore, MD               | 4319          | COMPOSITE       | 100 U         | A                             |                       |
| Multiver                                       | Vanier, QC                  | 4524          | COMPOSITE       | 400 U         | A                             |                       |
| Nashville Tempered Glass Corp.                 | Nashville, TN               | 1467          | COMPOSITE       | 285 U         | A                             |                       |
| Nashville Tempered Glass LLC                   | Hendersonville, TN          | 2692          | COMPOSITE       | 285 U         | A                             |                       |
| New Angle Beveling                             | Hyde, PA                    | 4594          | COMPOSITE       | 100 U         | A                             |                       |
| Northwest Glass, Inc.                          | Billings, MT                | 3650          | COMPOSITE       | 750 U         | A                             |                       |
| NY Tempering LLC                               | Maspeth, NY                 | 4900          | COMPOSITE       | 800 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                    | Fremont, CA                 | 3193          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                    | Rock Hill, SC               | 3277          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                    | Los Angeles, CA             | 630           | 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>3/16 Inch Tempered Transparent Glass</i>         |                              |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope™                         | Moorestown, NJ               | 3182          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Phoenix, AZ                  | 3130          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Wright City, MO              | 3139          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Tampa, FL                    | 3118          | COMPOSITE       | 185 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Shawnee, OK                  | 3097          | COMPOSITE       | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Perrysburg, OH               | 3235          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Burnaby, BC                  | 3288          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Bensenville, IL              | 3593          | COMPOSITE       | 200 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Indianapolis, IN             | 2211          | COMPOSITE       | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Covington, GA                | 3331          | COMPOSITE       | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Concord, ON                  | 3441          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Calgary, AB                  | 3265          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Houston, TX                  | 3158          | COMPOSITE       | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Albertville, MN              | 3106          | COMPOSITE       | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Montreal, QC Canada          | 1997          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Denver, CO                   | 3312          | COMPOSITE       | 550 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Grand Prairie, TX            | 3252          | COMPOSITE       | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Hauppauge, NY                | 1547          | COMPOSITE       | 400 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Vancouver, WA                | 3221          | COMPOSITE       | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Warrenton, MO                | 3146          | COMPOSITE       | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Schofield, WI                | 3169          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                         | Miami, FL                    | 3497          | COMPOSITE       | 285 U         | A                             |                       |
| Patio Enclosures                                    | Macedonia, OH                | 2058          | COMPOSITE       | 200 U         | A                             |                       |
| PPG 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.                                      | Burlington, IA               | 1603          | COMPOSITE       | 500 U         | A                             |                       |
| PPG Inds., Inc.                                     | Wichita Falls, TX            | 1112          | COMPOSITE       | 550 U         | A                             |                       |
| Prelco Inc.                                         | Saint-Jacques, New Brunswick | 4913          | COMPOSITE       | 100 U         | A                             |                       |
| Prelco Inc.                                         | Riviere-du-loup, QC          | 2713          | COMP+CAN        | 100 U         | A                             |                       |
| Productos De Valor Agregado en Cristal S.A. de C.V. | Tlalnepantla, Mexico         | 4639          | COMPOSITE       | 550 U         | A                             |                       |
| PT Abebersa Pratama                                 | Bekasi, Indonesia            | 3906          | COMPOSITE       | 125 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                | 4224          | COMPOSITE       | 185 U         | A                             |                       |
| SAAND Rexdale                                       | Rexdale, ON Canada           | 2803          | COMP+CAN        | 400 U         | A                             |                       |
| SCHOTT Gemtron - Sweetwater                         | Sweetwater, TN               | 1201          | COMP+CAN        | 285 U         | A                             |                       |
| SCHOTT Gemtron (Canada) Corporation                 | Midland, ON Canada           | 3636          | COMPOSITE       | 100 U         | A                             |                       |
| Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE  | Shanghai, China              | 4068          | COMPOSITE       | 125 U         | A                             |                       |
| Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE   | Tianjin, China               | 4075          | COMPOSITE       | 125 U         | A                             |                       |
| SIGCO, Inc.                                         | Westbrook, ME                | 2963          | COMPOSITE       | 100 U         | A                             |                       |
| Simonton Windows                                    | Paris, IL                    | 4978          | COMPOSITE       | 150 U         | A                             |                       |
| Simonton Windows                                    | Ellenboro, WV                | 2888          | COMPOSITE       | 100 U         | A                             |                       |
| Southwest Glass Products Inc.                       | London, Ontario Canada       | 3979          | COMP+CAN        | 400 U         | A                             |                       |
| Spec-Temp, Inc.                                     | Antwerp, OH                  | 2686          | COMPOSITE       | 500 U         | A                             |                       |
| Swift Glass Co., Inc.                               | Elmira Heights, NY           | 1556          | COMPOSITE       | 400 U         | A                             |                       |
| Syracuse Glass Co., Inc.                            | Syracuse, NY                 | 2957          | COMPOSITE       | 100 U         | A                             |                       |
| Tai Shan City Da Heng Art Glass Ltd.                | Guangdong, China             | 3789          | COMPOSITE       | 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> |
|----------------------------------------------------|------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <b>3/16 Inch Tempered Transparent Glass</b>        |                              |               |                 |               |                               |                       |
| Taiwan Glass Industry Corporation                  | Taipei, Taiwan, ROC          | 3887          | COMPOSITE       | 750 U         | A                             |                       |
| Techni-Glass, Inc.                                 | Surgoinsville, TN            | 2549          | COMPOSITE       | 285 U         | A                             |                       |
| Tecnolglass S.A.                                   | Barranquilla, Colombia       | 1993          | COMP+CAN        | 800 U         | A                             |                       |
| Texas Tempered Glass Inc.                          | Houston, TX                  | 4848          | COMPOSITE       | 175 U         | A                             |                       |
| Thermal Seal Insulating Glass                      | Uxbridge, MA                 | 4823          | COMPOSITE       | 285 U         | A                             |                       |
| Thermo BSL                                         | Riviere-du-loup, QC          | 4292          | COMPOSITE       | 800 U         | A                             |                       |
| Thermoseal Glass Corp.                             | Gloucester City, NJ          | 4470          | COMPOSITE       | 100 U         | A                             |                       |
| Tianjin CSG Architectural Glass Co., Ltd.          | Tianjin, China               | 4022          | COMPOSITE       | 100 U         | A                             |                       |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Tian Jin, China              | 2890          | COMPOSITE       | 250 U         | A                             |                       |
| TRACO (Three Rivers Alum)                          | Cranberry Township, PA       | 2489          | COMPOSITE       | 100 U         | A                             |                       |
| Triple Seal Ltd.                                   | Toronto, ON Canada           | 3023          | COMP+CAN        | 400 U         | A                             |                       |
| Tri-Star Glass                                     | Tulsa, OK                    | 4006          | COMPOSITE       | 175 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 & Aluminum Solutions                 | Grenada, MS                  | 2788          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass & Aluminum Solutions                 | Columbus, OH                 | 4746          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions               | City of Industry, CA         | 4184          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions               | Atlanta, GA                  | 862           | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions               | Pittsburgh, PA               | 1785          | COMPOSITE       | 100 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions               | Houston, TX                  | 3925          | COMPOSITE       | 550 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions               | Indianapolis, IN             | 4922          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions               | Las Vegas, NV                | 4212          | COMPOSITE       | 250 U         | A                             |                       |
| Tweddell's Inc.                                    | Santa Ana, CA                | 4993          | COMP+CAN        | 250 U         | A                             |                       |
| United Plate Glass Co., Inc.                       | Butler, PA                   | 2468          | COMPOSITE       | 100 U         | A                             |                       |
| United Plate Glass Company of Charlotte            | Lincolnton, NC               | 3949          | COMPOSITE       | 100 U         | A                             |                       |
| View Inc.                                          | Olive Branch, MS             | 4727          | COMPOSITE       | 175 U         | A                             |                       |
| Viracon Inc.                                       | Owatonna, MN                 | 1403          | COMP+CAN        | 150 U         | A                             |                       |
| Viracon Inc.                                       | Statesboro, GA               | 2314          | COMP+CAN        | 165 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                             |                       |
| WSD Glass, Inc.                                    | Winston-Salem, NC            | 4048          | COMPOSITE       | 165 U         | A                             |                       |
| Wujiang CSG Huadong Architectural Glass Co., LTD   | Wujiang City, China          | 4852          | COMPOSITE       | 750 U         | A                             |                       |
| XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)     | GuangDong, China             | 3085          | COMP+CAN        | 125 U         | A                             |                       |
| Yao Xiang Glass Product Co. Ltd.                   | Guang Dong China             | 3737          | COMPOSITE       | 285 U         | A                             |                       |
| Yong Feng Tai Foshan City Glas Co., LTD.           | Foshan City, Guangdong China | 4875          | ANSI ONLY       | 285 U         | A                             |                       |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.       | Zhangjiagang JiangSu, China  | 4094          | COMPOSITE       | 250 U         | A                             |                       |
| <b>1/4 Inch Tempered Transparent Glass</b>         |                              |               |                 |               |                               |                       |
| A Plus Glass Services                              | Medley, FL                   | 4771          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America                       | Richmond, VA                 | 1957          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Flat Glass North America                       | Greenland, TN                | 89            | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America                       | San Antonio, TX              | 3326          | COMPOSITE       | 550 U         | A                             |                       |
| AGC Flat Glass North America                       | Fall River, MA               | 1520          | COMPOSITE       | 400 U         | A                             |                       |
| AGC Flat Glass North America                       | Marietta, GA                 | 1231          | COMPOSITE       | 165 U         | A                             |                       |
| AGC Flat Glass North America                       | Winnipeg, MB                 | 4941          | COMP+CAN        | 150 U         | A                             |                       |

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|--------------------------------------------------|------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 1/4 Inch Tempered Transparent Glass              |                                    |               |                 |               |                               |                       |
| AGC Flat Glass North America                     | Salt Lake City, UT                 | 4267          | COMPOSITE       |               | 250 U                         | A                     |
| AGC Flat Glass North America                     | Quakertown, PA                     | 2666          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Flat Glass North America                     | Hebron, OH                         | 2198          | COMPOSITE       |               | 200 U                         | A                     |
| AGC Flat Glass North America                     | Spring Hill, KS                    | 1705          | COMPOSITE       |               | 500 U                         | A                     |
| AGC Flat Glass North America                     | Jacksonville, FL                   | 3008          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                     | Knoxville, TN                      | 4153          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                     | Opelousas, LA                      | 2901          | COMPOSITE       |               | 550 U                         | A                     |
| AGC Flat Glass North America                     | Alvarado, TX                       | 1710          | COMPOSITE       |               | 175 U                         | A                     |
| AGC Glass Company North America                  | Lithia Springs, GA                 | 4985          | COMP+CAN        |               | 165 U                         | A                     |
| AGP, LLC                                         | Miramar, FL                        | 4717          | COMPOSITE       |               | 285 U                         | A                     |
| Al Abbar Architectural Glass                     | Dubai, United Arab Emirates        | 3556          | COMPOSITE       |               | 100 U                         | A                     |
| All Team Glass & Mirror, Ltd.                    | Woodbridge, ON Canada              | 1756          | COMPOSITE       |               | 100 U                         | A                     |
| Alyusuf Thermo Glass W.L.L.                      | Manama, Bahrain                    | 4495          | COMPOSITE       |               | 285 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                            | San Fernando, CA                   | 1000          | ANSI ONLY       |               | 250 U                         | A                     |
| Anthony International                            | Madison, GA                        | 2353          | COMPOSITE       |               | 165 U                         | A                     |
| Architectural Glass Products, LLC                | St. Louis, MO                      | 4573          | COMPOSITE       |               | 100 U                         | A                     |
| Arlene Stained Glass & Door                      | Houston, TX                        | 3584          | COMPOSITE       |               | 550 U                         | A                     |
| AVIC Sanxin Co. Ltd.                             | Shenzhen, China                    | 3567          | COMPOSITE       |               | 285 U                         | A                     |
| Basco Engineered Products                        | Hamilton, OH                       | 3810          | COMPOSITE       |               | 200 U                         | A                     |
| Beijing Northglass Safety Glass Co., Ltd         | Beijing, China                     | 4680          | COMPOSITE       |               | 175 U                         | A                     |
| Berkowitz, J.E.                                  | Pedricktown, NJ                    | 4837          | COMPOSITE       |               | 100 U                         | A                     |
| Blue Star Glass Inc.                             | North Brunswick, NJ                | 4519          | COMPOSITE       |               | 100 U                         | A                     |
| Cameron Glass, Inc.                              | Broken Arrow, OK                   | 2455          | COMPOSITE       |               | 500 U                         | A                     |
| Cardinal CG                                      | Spring Green, WI                   | 2070          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal CG                                      | Buford, GA                         | 1924          | COMPOSITE       |               | 165 U                         | A                     |
| Cardinal CG                                      | Casa Grande, AZ                    | 2881          | COMPOSITE       |               | 250 U                         | A                     |
| Cardinal CG                                      | Tumwater, WA                       | 2010          | CPSC ONLY       |               | 195 U                         |                       |
| Cardinal CG                                      | Moreno Valley, CA                  | 2296          | CPSC ONLY       |               | 250 U                         |                       |
| Cardinal CG                                      | Galt, CA                           | 2360          | COMPOSITE       |               | 125 U                         | A                     |
| Cardinal CG                                      | Loveland, CO                       | 3555          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal CG                                      | Northfield, MN                     | 1988          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal CG                                      | Waxahachie, TX                     | 2702          | COMPOSITE       |               | 550 U                         | A                     |
| Cardinal FG                                      | Durant, OK                         | 2912          | COMP+CAN        |               | 900 U                         | A                     |
| Cardinal IG                                      | Waxahachie, TX                     | 2331          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal IG                                      | Greenfield, IA                     | 1830          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal IG                                      | Tomah, WI                          | 2320          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal IG                                      | Vinton, VA                         | 2922          | COMPOSITE       |               | 100 U                         | A                     |
| Cardinal IG                                      | Fargo, ND                          | 2232          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                      | Spring Green, WI                   | 1834          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal IG                                      | Ocala, FL                          | 3508          | COMPOSITE       |               | 285 U                         | A                     |
| Cardinal IG                                      | Fremont, IN                        | 2179          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                      | Mountain Top, PA                   | 3071          | COMP+CAN        |               | 100 U                         | A                     |
| Cardinal IG                                      | Hood River, OR                     | 2834          | COMPOSITE       |               | 750 U                         | A                     |
| Cardinal LG                                      | Amery, WI                          | 4841          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal Solar TecnoLOGies                       | Mazomanie, WI                      | 4783          | COMPOSITE       |               | 150 U                         | A                     |
| Cardinal Tempering                               | Louisville, KY                     | 3873          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal TG                                      | Chehalis, WA                       | 3459          | COMP+CAN        |               | 750 U                         | A                     |
| Cardinal TG                                      | Tomah, WI                          | 1807          | COMP+CAN        |               | 600 U                         | A                     |
| Changshu Xingfu Glass Building Material Co., LTD | Changshu, Jiangshu Province, China | 4235          | COMPOSITE       |               | 195 U                         | A                     |

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|-----------------------------------------------------|-----------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i>          |                                   |               |                 |               |                               |                       |
| Chicago Tempered Glass, Inc.                        | Chicago, IL                       | 3088          | COMPOSITE       |               | 200 U                         | A                     |
| Coastal Glass Distributors                          | Charleston, SC                    | 4331          | COMPOSITE       |               | 285 U                         | A                     |
| Columbia Commercial Building Products, Acquisitions | Rockwall, TX                      | 4921          | COMP+CAN        |               | 175 U                         | A                     |
| Commercial Insulating Glass Co.                     | Sarasota, FL                      | 1891          | COMPOSITE       |               | 185 30x76                     | A                     |
| Commercial Insulating Glass Co.                     | Cumberland City, TN               | 3808          | COMPOSITE       |               | 165 U                         | A                     |
| Consolidated Glass Corp.                            | New Castle, PA                    | 2002          | COMPOSITE       |               | 285 U                         | A                     |
| Consolidated Glass Holdings, Inc.                   | S. Easton, MA                     | 1035          | COMPOSITE       |               | 100 U                         | A                     |
| Contour Industries, Inc.                            | Surgoinsville, TN                 | 1677          | COMP+CAN        |               | 285 U                         | A                     |
| Contractors Wardrobe                                | Valencia, CA                      | 3467          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                     | Tuscaloosa, AL                    | 1911          | COMPOSITE       |               | 150 U                         | A                     |
| Cuda Glass & Metals                                 | Wixom, MI                         | 4200          | COMPOSITE       |               | 150 U                         | A                     |
| Custom Glass Products Inc.                          | Weston, WI                        | 4002          | COMPOSITE       |               | 150 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                     |
| Denver Glass Interiors, Inc.                        | Englewood, CO                     | 3866          | COMPOSITE       |               | 175 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.            | Deqing, Huzhou, 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       |               | 900 U                         | A                     |
| Dlubak Corporation                                  | Blairsville, PA                   | 3017          | COMPOSITE       |               | 100 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.          | Dongguan City China               | 3934          | COMPOSITE       |               | 125 U                         | A                     |
| Dongguan Taisheng Glass Co., Ltd.                   | Dongguan City, Guang Dong China   | 4872          | COMPOSITE       |               | 285 U                         | A                     |
| Dongguan Trillion Aluminum Glass Co., Ltd           | Dongguan City, Guangdong Province | 5029          | 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        |               | 200 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                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory      | Foshan Guangdong China            | 4670          | COMP+CAN        |               | 125 U                         | A                     |
| Garibaldi Glass Ind. Inc.                           | Burnaby, BC                       | 4419          | COMPOSITE       |               | 750 U                         | A                     |
| General Glass                                       | Portland, OR                      | 4034          | COMPOSITE       |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                        | Secaucus, NJ                      | 2227          | COMPOSITE       |               | 100 U                         | A                     |
| Glass Design of Miami, Inc.                         | Miami, FL                         | 3453          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                                | Stoneville, NC                    | 2732          | COMPOSITE       |               | 100 U                         | A                     |
| Glass Enterprises, Inc.                             | Bensalem, PA                      | 4629          | COMPOSITE       |               | 100 U                         | A                     |
| Glasswerks LA, Inc.                                 | South Gate, CA                    | 4806          | COMPOSITE       |               | 125 U                         | A                     |
| Glaz-Tech Industries                                | 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                     |
| Goldray Industries Ltd.                             | Calgary, AB Canada                | 2447          | COMP+CAN        |               | 195 U                         | A                     |
| Grand Glass Windows and Doors Inc.                  | Mobile, AL                        | 4909          | COMPOSITE       |               | 165 U                         | A                     |
| Guangdong Golden Glass Technologies                 | Guang Dong, China                 | 3941          | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                           | Richburg, SC                      | 1633          | COMPOSITE       |               | 285 U                         | A                     |
| Guardian Industries Corp.                           | Kingsburg, CA                     | 971           | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                           | Carleton, MI                      | 131           | 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> |
|-----------------------------------------|-------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 1/4 Inch Tempered Transparent Glass     |                               |               |                 |               |                               |                       |
| Guardian Industries Corp.               | Galax, VA                     | 4607          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.               | Geneva, NY                    | 2262          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.               | Corsicana, TX                 | 1251          | COMPOSITE       |               | 550 U                         | A                     |
| Guardian Industries Corp.               | DeWitt, IA                    | 2023          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Webster, Inc.                  | Webster, MA                   | 662           | COMPOSITE       |               | 100 U                         | A                     |
| Gulf Glass Industries, LLC              | Sharjah, United Arab Emirates | 4796          | COMPOSITE       |               | 100 U                         | A                     |
| Industrial Tempering Glass              | Brooklyn, NY                  | 3387          | COMPOSITE       |               | 100 U                         | A                     |
| Insulated Glass of America, Inc.        | Dallas, NC                    | 3862          | COMPOSITE       |               | 800 U                         | A                     |
| Insulite Glass Co., Inc.                | Olathe, KS                    | 3715          | COMPOSITE       |               | 150 U                         | A                     |
| Insulpane of Connecticut Ind.           | Hamden, CT                    | 4523          | COMPOSITE       |               | 400 U                         | A                     |
| Integral Seal Mfg. Inc.                 | Concord, ON Canada            | 4684          | COMP+CAN        |               | 100 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 Co., Ltd | Jiangmen, China               | 4305          | COMP+CAN        |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                      | Zhangcha, Foshan China        | 3960          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                          | Union City, TN                | 1982          | COMPOSITE       |               | 550 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                     |
| Milgard Tempering                       | Dixon, CA                     | 2842          | COMPOSITE       |               | 125 U                         | A                     |
| Multiver                                | Vanier, QC                    | 2499          | COMPOSITE       |               | 400 U                         | A                     |
| Nashville Tempered Glass Corp.          | Nashville, TN                 | 1417          | COMPOSITE       |               | 285 U                         | A                     |
| Nashville Tempered Glass LLC            | Hendersonville, TN            | 2693          | COMPOSITE       |               | 285 U                         | A                     |
| New Angle Beveling                      | Hyde, PA                      | 4595          | COMPOSITE       |               | 100 U                         | A                     |
| Northwest Glass, Inc.                   | Billings, MT                  | 3651          | COMPOSITE       |               | 750 U                         | A                     |
| NY Tempering LLC                        | Maspeth, NY                   | 4901          | COMPOSITE       |               | 800 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Calgary, AB                   | 3266          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Fremont, CA                   | 3194          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Covington, GA                 | 3332          | COMPOSITE       |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Wright City, MO               | 3140          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Concord, ON                   | 3442          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Bensenville, IL               | 1382          | COMPOSITE       |               | 200 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Indianapolis, IN              | 2212          | COMPOSITE       |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Rock Hill, SC                 | 3278          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Denver, CO                    | 3313          | COMPOSITE       |               | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Warrenton, MO                 | 3147          | COMPOSITE       |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Grand Prairie, TX             | 3253          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Schofield, WI                 | 3170          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Moorestown, NJ                | 3183          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Vancouver, WA                 | 3222          | COMPOSITE       |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Tampa, FL                     | 3119          | COMPOSITE       |               | 185 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Los Angeles, CA               | 514           | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Miami, FL                     | 3498          | COMPOSITE       |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Shawnee, OK                   | 3098          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Phoenix, AZ                   | 3131          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Perrysburg, OH                | 3236          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Hauppauge, NY                 | 1548          | COMPOSITE       |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Albertville, MN               | 3107          | COMPOSITE       |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™             | Burnaby, BC                   | 3289          | COMPOSITE       |               | 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>1/4 Inch Tempered Transparent Glass</i>             |                                 |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope™                            | Houston, TX                     | 3159          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                            | Montreal, QC Canada             | 2543          | COMP+CAN        |               | 100 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.                                         | Carlisle, PA                    | 382           | COMP+CAN        |               | 400 U                         | A                     |
| PPG Inds. Inc.                                         | Burlington, IA                  | 1604          | COMPOSITE       |               | 500 U                         | A                     |
| PPG Inds., Inc.                                        | Wichita Falls, TX               | 1113          | COMPOSITE       |               | 550 U                         | A                     |
| Prelco Inc.                                            | Riviere-du-loup, QC             | 2015          | COMP+CAN        |               | 100 U                         | A                     |
| Prelco Inc.                                            | Saint-Jacques, New Brunswick    | 4914          | COMPOSITE       |               | 100 U                         | A                     |
| Productos De Valor Agregado en<br>Cristal S.A. de C.V. | Tlalnepantla, Mexico            | 4645          | COMPOSITE       |               | 550 U                         | A                     |
| Quality Glass & Mirror, Inc.                           | Mount Prospect, IL              | 2982          | COMPOSITE       |               | 500 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       |               | 185 U                         | A                     |
| SAAND Rexdale                                          | Rexdale, ON Canada              | 2804          | COMP+CAN        |               | 400 U                         | A                     |
| Saint-Gobain SOVIS                                     | Thierry, France                 | 2248          | COMPOSITE       |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                            | Sweetwater, TN                  | 1477          | COMP+CAN        |               | 285 U                         | A                     |
| SCHOTT Gemtron (Canada)<br>Corporation                 | Midland, ON Canada              | 3637          | COMPOSITE       |               | 100 U                         | A                     |
| SF Tempering                                           | Dania Beach, FL                 | 5019          | COMPOSITE       |               | 285 U                         | A                     |
| Shanghai Mingte Glass Technology<br>Co., Ltd.          | Qingpu, Shanghai                | 4933          | COMP+CAN        |               | 250 U                         | A                     |
| Shanghai Yaohua Pilkington Glass<br>Co. Shanghai SYPE  | Shanghai, China                 | 4069          | COMPOSITE       |               | 125 U                         | A                     |
| Shanghai Yaohua Pilkington Glass<br>Co. Tianjin SYPE   | Tianjin, China                  | 4076          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                            | Westbrook, ME                   | 2964          | COMPOSITE       |               | 100 U                         | A                     |
| Southwest Glass Products Inc.                          | London, Ontario Canada          | 3980          | COMP+CAN        |               | 400 U                         | A                     |
| Spec-Temp, Inc.                                        | Antwerp, OH                     | 2687          | COMPOSITE       |               | 500 U                         | A                     |
| Swift Glass Co., Inc.                                  | Elmira Heights, NY              | 1557          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                               | Syracuse, NY                    | 2656          | COMPOSITE       |               | 100 U                         | A                     |
| Tacoma Glass Mfg. Inc.                                 | Lakewood, WA                    | 4730          | COMPOSITE       |               | 195 U                         | A                     |
| Taiwan Glass Industry Corporation                      | Taipei, Taiwan, ROC             | 3888          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                     | Surgoinsville, TN               | 2975          | COMPOSITE       |               | 285 U                         | A                     |
| Tecnolgass S.A.                                        | Barranquilla, Colombia          | 1994          | COMP+CAN        |               | 800 U                         | A                     |
| Texas Tempered Glass Inc.                              | Houston, TX                     | 4849          | COMPOSITE       |               | 175 U                         | A                     |
| The Original Frameless Shower Door                     | Coral Springs, FL               | 4661          | COMPOSITE       |               | 285 U                         | A                     |
| Thermal Seal Insulating Glass                          | Uxbridge, MA                    | 4824          | COMPOSITE       |               | 285 U                         | A                     |
| Thermo BSL                                             | Riviere-du-loup, QC             | 4293          | COMPOSITE       |               | 800 U                         | A                     |
| Thermoseal Glass Corp.                                 | Gloucester City, NJ             | 4471          | COMPOSITE       |               | 100 U                         | A                     |
| Tianjin CSG Architectural Glass Co.,<br>Ltd.           | Tianjin, China                  | 4023          | COMPOSITE       |               | 100 U                         | A                     |
| TianJin Dong Sung Home Building<br>Materials Co. Ltd.  | Tian Jin, China                 | 3094          | COMPOSITE       |               | 250 U                         | A                     |
| TRACO (Three Rivers Alum)                              | Cranberry Township, PA          | 2490          | COMPOSITE       |               | 100 U                         | A                     |
| Triple Seal Ltd.                                       | Toronto, ON Canada              | 2484          | COMP+CAN        |               | 400 U                         | A                     |
| Tri-Star Glass                                         | Tulsa, OK                       | 4007          | COMPOSITE       |               | 175 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 & Aluminum Solutions                     | Grenada, MS                     | 2789          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass & Aluminum Solutions                     | Columbus, OH                    | 4747          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                   | City of Industry, CA            | 4185          | 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> |
|----------------------------------------------------|-----------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <b><i>1/4 Inch Tempered Transparent Glass</i></b>  |                                   |               |                 |               |                               |                       |
| Trulite Glass and Aluminum Solutions               | Pittsburgh, PA                    | 1786          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Atlanta, GA                       | 863           | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Houston, TX                       | 3926          | COMPOSITE       |               | 550 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Indianapolis, IN                  | 4923          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Las Vegas, NV                     | 4213          | COMPOSITE       |               | 250 U                         | A                     |
| United Plate Glass Co., Inc.                       | Butler, PA                        | 2469          | COMPOSITE       |               | 100 U                         | A                     |
| United Plate Glass Company of Charlotte            | Lincolnton, NC                    | 3950          | COMPOSITE       |               | 100 U                         | A                     |
| Vidrio Bisel S.A. de C.V.                          | Santa Catarina, Nuevo Leon        | 4966          | COMPOSITE       |               | 900 U                         | A                     |
| Vidrios El Castillo SC de RL de CV                 | Escobedo, Nuevo Leon, Mexico      | 3985          | COMPOSITE       |               | 550 U                         | A                     |
| Vidrios Marte SA de CV                             | Azcapotzalco, Mexico City, Mexico | 4042          | COMPOSITE       |               | 900 U                         | A                     |
| View Inc.                                          | Olive Branch, MS                  | 4728          | COMPOSITE       |               | 175 U                         | A                     |
| Viracon Inc.                                       | Owatonna, MN                      | 1404          | COMP+CAN        |               | 150 U                         | A                     |
| Viracon Inc.                                       | Statesboro, GA                    | 2310          | COMP+CAN        |               | 165 U                         | A                     |
| Virginia Glass Products Corp.                      | Martinsville, VA                  | 14            | COMPOSITE       |               | 100 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                     |
| WSD Glass, Inc.                                    | Winston-Salem, NC                 | 4049          | COMPOSITE       |               | 165 U                         | A                     |
| Wujiang CSG Huadong Architectural Glass Co., LTD   | Wujiang City, China               | 4853          | COMPOSITE       |               | 750 U                         | A                     |
| XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)     | GuangDong, China                  | 3053          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                   | Guang Dong China                  | 3738          | COMPOSITE       |               | 285 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co., LTD.           | Foshan City, Guangdong China      | 4876          | ANSI ONLY       |               | 285 U                         | A                     |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.       | Zhangjiagang JiangSu, China       | 4095          | COMPOSITE       |               | 250 U                         | A                     |
| <b><i>5/16 Inch Tempered Transparent Glass</i></b> |                                   |               |                 |               |                               |                       |
| AGC Flat Glass North America                       | Greenland, TN                     | 4046          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                       | Salt Lake City, UT                | 4994          | COMP+CAN        |               | 250 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       |               | 100 U                         | A                     |
| Alyusuf Thermo Glass W.L.L.                        | Manama, Bahrain                   | 4496          | COMPOSITE       |               | 285 U                         | A                     |
| AVIC Sanxin Co. Ltd.                               | Shenzhen, China                   | 3568          | COMPOSITE       |               | 285 U                         | A                     |
| Cardinal CG                                        | Northfield, MN                    | 4775          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal LG                                        | Amery, WI                         | 4842          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal TG                                        | Chehalis, WA                      | 4808          | COMP+CAN        | (IN)          | 750 U                         | A                     |
| Cardinal TG                                        | Tomah, WI                         | 4881          | COMP+CAN        |               | 600 U                         | A                     |
| Consolidated Glass Corp.                           | New Castle, PA                    | 3635          | COMPOSITE       |               | 285 U                         | A                     |
| Contour Industries, Inc.                           | Surgoinsville, TN                 | 4701          | COMP+CAN        |               | 285 U                         | A                     |
| Contractors Wardrobe                               | Valencia, CA                      | 3468          | COMP+CAN        |               | 250 U                         | A                     |
| Diamond Sea Glaze                                  | Langley, BC Canada                | 4502          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                         | Van Buren, AR                     | 4839          | COMPOSITE       |               | 900 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.         | Dongguan City China               | 3935          | COMPOSITE       |               | 125 U                         | A                     |
| Dongguan Dongfa Glass Product Co., Ltd             | Dongguan City, Guangdong, China   | 4132          | ANSI ONLY       |               | 285 U                         | A                     |
| Dongguan Taisheng Glass Co., Ltd.                  | Dongguan City, Guang Dong China   | 4873          | COMPOSITE       |               | 285 U                         | A                     |
| Eckelt Glas GmbH                                   | Steyr, Austria                    | 2851          | COMPOSITE       |               | 100 U                         | A                     |
| EFCO Corporation                                   | Monett, MO                        | 4154          | COMPOSITE       |               | 175 U                         | A                     |
| Fairis C.A.                                        | Ambato, Tungurahua, Ecuador       | 4428          | 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>5/16 Inch Tempered Transparent Glass</i>            |                                      |               |                 |               |                               |                       |
| Foshan Nanhai Gangsheng<br>Tempered Glass Factory      | Foshan Guangdong China               | 4671          | COMP+CAN        | 125 U         | A                             |                       |
| GGI Glass Distributors Corp.                           | Secaucus, NJ                         | 4248          | COMPOSITE       | 100 U         | A                             |                       |
| Guangdong Golden Glass<br>Technologies                 | Guang Dong, China                    | 3942          | COMPOSITE       | 125 U         | A                             |                       |
| Guardian Industries Corp.                              | Corsicana, TX                        | 1826          | COMPOSITE       | 550 U         | A                             |                       |
| Guardian Industries Corp.                              | Geneva, NY                           | 3672          | COMPOSITE       | 400 U         | A                             |                       |
| Guardian Industries Corp.                              | DeWitt, IA                           | 2024          | COMPOSITE       | 500 U         | A                             |                       |
| Guardian Industries Corp.                              | Galax, VA                            | 4608          | COMP+CAN        | 285 U         | A                             |                       |
| Intex Glass (Xiamen) Co., Ltd.                         | Xiamen, Fujian, China                | 3025          | COMP+CAN        | 200 U         | A                             |                       |
| Jiangmen SYP Engineering Glass<br>Co., Ltd             | Jiangmen, China                      | 4306          | COMP+CAN        | 125 U         | A                             |                       |
| JYC Glass Co. Ltd.                                     | Zhangcha, Foshan China               | 3961          | COMPOSITE       | 125 U         | A                             |                       |
| Kohler Company                                         | Union City, TN                       | 4668          | COMPOSITE       | 550 U         | A                             |                       |
| Mercer Glass Fab LLC                                   | Trenton, NJ                          | 4530          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Perrysburg, OH                       | 4443          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Burnaby, BC                          | 3290          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Los Angeles, CA                      | 4400          | COMPOSITE       | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Rock Hill, SC                        | 4787          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Vancouver, WA                        | 3223          | COMPOSITE       | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Warrenton, MO                        | 3796          | COMPOSITE       | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Hauppauge, NY                        | 4180          | COMPOSITE       | 400 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Schofield, WI                        | 3171          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Montreal, QC Canada                  | 2884          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Concord, ON                          | 3443          | COMPOSITE       | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Calgary, AB                          | 3267          | COMPOSITE       | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Albertville, MN                      | 4882          | COMPOSITE       | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope™                            | Wright City, MO                      | 3141          | COMP+CAN        | 150 U         | A                             |                       |
| PPG Glass                                              | Langley, BC                          | 3542          | COMP+CAN        | 750 U         | A                             |                       |
| PPG Inds., Inc.                                        | Wichita Falls, TX                    | 3577          | COMPOSITE       | 550 U         | A                             |                       |
| Prelco Inc.                                            | Saint-Jacques, New Brunswick         | 4915          | COMPOSITE       | 100 U         | A                             |                       |
| Prelco Inc.                                            | Riviere-du-loup, QC                  | 2751          | COMP+CAN        | 100 U         | A                             |                       |
| Productos De Valor Agregado en<br>Cristal S.A. de C.V. | Tlalnepantla, Mexico                 | 4788          | COMPOSITE       | 550 U         | A                             |                       |
| Reem Emirates Aluminum & Glass                         | Abu Dhabi, United Arab Emirates      | 4676          | COMPOSITE       | 150 U         | A                             |                       |
| Shanghai Yaohua Pilkington Glass<br>Co. Shanghai SYPE  | Shanghai, China                      | 4070          | COMPOSITE       | 125 U         | A                             |                       |
| Shanghai Yaohua Pilkington Glass<br>Co. Tianjin SYPE   | Tianjin, China                       | 4077          | COMPOSITE       | 125 U         | A                             |                       |
| Taiwan Glass Industry Corporation                      | Taipei, Taiwan, ROC                  | 3889          | COMPOSITE       | 750 U         | A                             |                       |
| Tecnolgass S.A.                                        | Barranquilla, Colombia               | 2134          | COMP+CAN        | 800 U         | A                             |                       |
| Tianjin CSG Architectural Glass Co.,<br>Ltd.           | Tianjin, China                       | 4024          | COMPOSITE       | 100 U         | A                             |                       |
| TRACO (Three Rivers Alum)                              | Cranberry Township, PA               | 2678          | COMPOSITE       | 100 U         | A                             |                       |
| Triple Seal Ltd.                                       | Toronto, ON Canada                   | 4356          | COMP+CAN        | 400 U         | A                             |                       |
| Triview Glass Industries                               | City of Industry, CA                 | 5042          | COMP+CAN        | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                   | Pittsburgh, PA                       | 3495          | COMPOSITE       | 100 U         | A                             |                       |
| Vidrios Marte SA de CV                                 | Azcapotzalco, Mexico City,<br>Mexico | 4762          | COMPOSITE       | 900 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                             |                       |
| Wujiang CSG Huadong Architectural<br>Glass Co., LTD    | Wujiang City, China                  | 4854          | COMPOSITE       | 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>5/16 Inch Tempered Transparent Glass</i>         |                              |               |                 |               |                               |                       |
| XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)      | GuangDong, China             | 4648          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                    | Guang Dong China             | 3739          | COMPOSITE       |               | 285 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co., LTD.            | Foshan City, Guangdong China | 4877          | ANSI ONLY       |               | 285 U                         | A                     |
| <i>3/8 Inch Tempered Transparent Glass</i>          |                              |               |                 |               |                               |                       |
| A Plus Glass Services                               | Medley, FL                   | 4772          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                        | Alvarado, TX                 | 1711          | COMPOSITE       |               | 175 U                         | A                     |
| AGC Flat Glass North America                        | Richmond, VA                 | 1958          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Flat Glass North America                        | Winnipeg, MB                 | 4942          | COMP+CAN        |               | 150 U                         | A                     |
| AGC Flat Glass North America                        | Opelousas, LA                | 3706          | COMPOSITE       |               | 550 U                         | A                     |
| AGC Flat Glass North America                        | Greenland, TN                | 90            | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                        | Hebron, OH                   | 2199          | COMPOSITE       |               | 200 U                         | A                     |
| AGC Flat Glass North America                        | Knoxville, TN                | 4158          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                        | Salt Lake City, UT           | 4268          | COMPOSITE       |               | 250 U                         | A                     |
| AGC Flat Glass North America                        | San Antonio, TX              | 3327          | COMPOSITE       |               | 550 U                         | A                     |
| AGC Flat Glass North America                        | Marietta, GA                 | 1232          | COMPOSITE       |               | 165 U                         | A                     |
| AGC Flat Glass North America                        | Jacksonville, FL             | 3009          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                        | Fall River, MA               | 1521          | COMPOSITE       |               | 400 U                         | A                     |
| AGC Glass Company North America                     | Lithia Springs, GA           | 4986          | COMP+CAN        |               | 165 U                         | A                     |
| AGP, LLC                                            | Miramar, FL                  | 4718          | COMPOSITE       |               | 285 U                         | A                     |
| Al Abbar Architectural Glass                        | Dubai, United Arab Emirates  | 3558          | COMPOSITE       |               | 100 U                         | A                     |
| All Team Glass & Mirror, Ltd.                       | Woodbridge, ON Canada        | 1757          | COMPOSITE       |               | 100 U                         | A                     |
| Alyusuf Thermo Glass W.L.L.                         | Manama, Bahrain              | 4497          | COMPOSITE       |               | 285 U                         | A                     |
| American Shower Door                                | Los Angeles, CA              | 3040          | COMPOSITE       |               | 250 U                         | A                     |
| Anthony International                               | Madison, GA                  | 2453          | COMPOSITE       |               | 165 U                         | A                     |
| AVIC Sanxin Co. Ltd.                                | Shenzhen, China              | 3569          | COMPOSITE       |               | 285 U                         | A                     |
| Basco Engineered Products                           | Hamilton, OH                 | 3811          | COMPOSITE       |               | 200 U                         | A                     |
| Berkowitz, J.E.                                     | Pedricktown, NJ              | 2646          | COMPOSITE       |               | 100 U                         | A                     |
| Blue Star Glass Inc.                                | North Brunswick, NJ          | 4520          | COMPOSITE       |               | 100 U                         | A                     |
| Cameron Glass, Inc.                                 | Broken Arrow, OK             | 2032          | COMPOSITE       |               | 500 U                         | A                     |
| Cardinal CG                                         | Northfield, MN               | 4137          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal IG                                         | Ocala, FL                    | 4316          | COMPOSITE       |               | 285 U                         | A                     |
| Cardinal LG                                         | Amery, WI                    | 4843          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal Solar Technologies                         | Mazomanie, WI                | 4821          | COMPOSITE       |               | 150 U                         | A                     |
| Cardinal Tempering                                  | Louisville, KY               | 3874          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal TG                                         | Chehalis, WA                 | 4809          | COMP+CAN        | (IN)          | 750 U                         | A                     |
| Chicago Tempered Glass, Inc.                        | Chicago, IL                  | 3089          | COMPOSITE       |               | 200 U                         | A                     |
| Coastal Glass Distributors                          | Charleston, SC               | 4335          | COMPOSITE       |               | 285 U                         | A                     |
| Columbia Commercial Building Products, Acquisitions | Rockwall, TX                 | 5022          | COMP+CAN        |               | 175 U                         | A                     |
| Consolidated Glass Corp.                            | New Castle, PA               | 2003          | COMPOSITE       |               | 285 U                         | A                     |
| Consolidated Glass Holdings, Inc.                   | S. Easton, MA                | 1036          | COMPOSITE       |               | 100 U                         | A                     |
| Contour Industries, Inc.                            | Surgoinsville, TN            | 4702          | COMP+CAN        |               | 285 U                         | A                     |
| Contractors Wardrobe                                | Valencia, CA                 | 3469          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                     | Tuscaloosa, AL               | 2144          | COMPOSITE       |               | 150 U                         | A                     |
| Cuda Glass & Metals                                 | Wixom, MI                    | 4201          | COMPOSITE       |               | 150 U                         | A                     |
| D3 Glass, LLC                                       | Fort Myers, FL               | 4792          | COMPOSITE       |               | 285 U                         | A                     |
| Dallas Flat Glass                                   | Carrollton, TX               | 4566          | COMPOSITE       |               | 175 U                         | A                     |
| Denver Glass Interiors, Inc.                        | Englewood, CO                | 3867          | COMPOSITE       |               | 175 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.            | Deqing, Huzhou, China        | 4147          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                                   | Langley, BC Canada           | 4503          | COMPOSITE       |               | 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>3/8 Inch Tempered Transparent Glass</i>     |                                 |               |                 |               |                               |                       |
| Dillmeier Enterprise, Inc.                     | Van Buren, AR                   | 3914          | COMPOSITE       |               | 900 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.     | Dongguan City China             | 3936          | COMPOSITE       |               | 125 U                         | A                     |
| Dongguan Dongfa Glass Product Co., Ltd         | Dongguan City, Guangdong, China | 4125          | ANSI ONLY       |               | 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                     |
| Fairis C.A.                                    | Ambato, Tungurahua, Ecuador     | 4429          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Distributors                        | Jacksonville, FL                | 3825          | COMPOSITE       |               | 285 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory | Foshan Guangdong China          | 4672          | COMP+CAN        |               | 125 U                         | A                     |
| Garibaldi Glass Ind. Inc.                      | Burnaby, BC                     | 4420          | COMPOSITE       |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                   | Secaucus, NJ                    | 2282          | COMPOSITE       |               | 100 U                         | A                     |
| Glass Design of Miami, Inc.                    | Miami, FL                       | 3454          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                           | Stoneville, NC                  | 2729          | COMPOSITE       |               | 100 U                         | A                     |
| Glaz-Tech Industries                           | Englewood, CO                   | 2188          | 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                     |
| Goldray Industries Ltd.                        | Calgary, AB Canada              | 2448          | COMP+CAN        |               | 195 U                         | A                     |
| Guangdong Golden Glass Technologies            | Guang Dong, China               | 3943          | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                      | DeWitt, IA                      | 2545          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Industries Corp.                      | Richburg, SC                    | 1634          | COMPOSITE       |               | 285 U                         | A                     |
| Guardian Industries Corp.                      | Geneva, NY                      | 2519          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                      | Galax, VA                       | 4609          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                      | Corsicana, TX                   | 1253          | COMPOSITE       |               | 550 U                         | A                     |
| Guardian Webster, Inc.                         | Webster, MA                     | 471           | COMPOSITE       |               | 100 U                         | A                     |
| Gulf Glass Industries, LLC                     | Sharjah, United Arab Emirates   | 4797          | COMPOSITE       |               | 100 U                         | A                     |
| Hartung Glass Industries                       | Wilsonville, OR                 | 4686          | COMPOSITE       |               | 195 U                         | A                     |
| Industrial Tempering Glass                     | Brooklyn, NY                    | 3418          | COMPOSITE       |               | 100 U                         | A                     |
| Insulated Glass of America, Inc.               | Dallas, NC                      | 3863          | COMPOSITE       |               | 800 U                         | A                     |
| Insulite Glass Co., Inc.                       | Olathe, KS                      | 3716          | COMPOSITE       |               | 150 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.                 | Xiamen, Fujian, China           | 2576          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass Co., Ltd        | Jiangmen, China                 | 4307          | COMP+CAN        |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                             | Zhangcha, Foshan China          | 3962          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                                 | Union City, TN                  | 2434          | COMPOSITE       |               | 550 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                     |
| Nashville Tempered Glass Corp.                 | Nashville, TN                   | 2494          | COMPOSITE       |               | 285 U                         | A                     |
| Nashville Tempered Glass LLC                   | Hendersonville, TN              | 2694          | COMPOSITE       |               | 285 U                         | A                     |
| New Angle Beveling                             | Hyde, PA                        | 4591          | COMPOSITE       |               | 100 U                         | A                     |
| Northwest Glass, Inc.                          | Billings, MT                    | 3652          | COMPOSITE       |               | 750 U                         | A                     |
| NY Tempering LLC                               | Maspeth, NY                     | 4902          | COMPOSITE       |               | 800 A                         | U                     |
| Oldcastle BuildingEnvelope™                    | Vancouver, WA                   | 3224          | COMPOSITE       |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope™                    | Albertville, MN                 | 3108          | COMPOSITE       |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                    | Houston, TX                     | 3160          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                    | Montreal, QC Canada             | 2544          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                    | Los Angeles, CA                 | 515           | COMPOSITE       |               | 125 U.                        | A                     |
| Oldcastle BuildingEnvelope™                    | Perrysburg, OH                  | 3237          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                    | Rock Hill, SC                   | 3279          | 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> |
|-----------------------------------------------------|---------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Transparent Glass                 |                                 |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope™                         | Covington, GA                   | 3333          | COMPOSITE       |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Indianapolis, IN                | 2213          | COMPOSITE       |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Concord, ON                     | 3444          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Bensenville, IL                 | 1383          | COMPOSITE       |               | 200 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Calgary, AB                     | 3268          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Burnaby, BC                     | 3291          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Warrenton, MO                   | 3148          | COMPOSITE       |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Phoenix, AZ                     | 3132          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Denver, CO                      | 3314          | COMPOSITE       |               | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Schofield, WI                   | 3172          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Grand Prairie, TX               | 3255          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Hauppauge, NY                   | 1549          | COMPOSITE       |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Moorestown, NJ                  | 3184          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Tampa, FL                       | 3120          | COMPOSITE       |               | 185 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Shawnee, OK                     | 3099          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Miami, FL                       | 3499          | COMPOSITE       |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Fremont, CA                     | 3195          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Wright City, MO                 | 3142          | COMP+CAN        |               | 150 U                         | A                     |
| PPG Glass                                           | Langley, BC                     | 3543          | COMP+CAN        |               | 750 U                         | A                     |
| PPG Inds., Inc.                                     | Wichita Falls, TX               | 3578          | COMPOSITE       |               | 550 U                         | A                     |
| Prelco Inc.                                         | Riviere-du-loup, QC             | 2381          | COMP+CAN        |               | 100 U                         | A                     |
| Prelco Inc.                                         | Saint-Jacques, New Brunswick    | 4916          | COMPOSITE       |               | 100 U                         | A                     |
| Productos De Valor Agregado en Cristal S.A. de C.V. | Tlalnepantla, Mexico            | 4640          | COMPOSITE       |               | 550 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       |               | 185 U                         | A                     |
| SAAND Rexdale                                       | Rexdale, ON Canada              | 2805          | COMP+CAN        |               | 400 U                         | A                     |
| SF Tempering                                        | Dania Beach, FL                 | 5020          | COMPOSITE       |               | 285 U                         | A                     |
| Shanghai Mingte Glass Technology Co., Ltd.          | Qingpu, Shanghai                | 4934          | COMP+CAN        |               | 250 U                         | A                     |
| Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE  | Shanghai, China                 | 4071          | COMPOSITE       |               | 125 U                         | A                     |
| Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE   | Tianjin, China                  | 4078          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                         | Westbrook, ME                   | 2965          | COMPOSITE       |               | 100 U                         | A                     |
| Southwest Glass Products Inc.                       | London, Ontario Canada          | 3981          | COMP+CAN        |               | 400 U                         | A                     |
| Spec-Temp, Inc.                                     | Antwerp, OH                     | 2688          | COMPOSITE       |               | 500 U                         | A                     |
| Swift Glass Co., Inc.                               | Elmira Heights, NY              | 1558          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                            | Syracuse, NY                    | 2958          | COMPOSITE       |               | 100 U                         | A                     |
| Tacoma Glass Mfg. Inc.                              | Lakewood, WA                    | 4731          | COMPOSITE       |               | 195 U                         | A                     |
| Taiwan Glass Industry Corporation                   | Taipei, Taiwan, ROC             | 3890          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                  | Surgoinsville, TN               | 3062          | COMPOSITE       |               | 285 U                         | A                     |
| Tecnolglass S.A.                                    | Barranquilla, Colombia          | 1995          | COMP+CAN        |               | 800 U                         | A                     |
| Texas Tempered Glass Inc.                           | 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                    | 4825          | COMPOSITE       |               | 285 U                         | A                     |
| Tianjin CSG Architectural Glass Co., Ltd.           | Tianjin, China                  | 4025          | COMPOSITE       |               | 100 U                         | A                     |
| Triple Seal Ltd.                                    | Toronto, ON Canada              | 4357          | COMP+CAN        |               | 400 U                         | A                     |
| Tri-Star Glass                                      | Tulsa, OK                       | 4008          | COMPOSITE       |               | 175 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                     |

***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>       |                              |               |                 |               |                               |                       |
| Trulite Glass & Aluminum Solutions               | Grenada, MS                  | 2840          | COMPOSITE       | 175 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions             | Las Vegas, NV                | 4214          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions             | Houston, TX                  | 3927          | COMPOSITE       | 550 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions             | Atlanta, GA                  | 865           | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions             | Pittsburgh, PA               | 1787          | COMPOSITE       | 100 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions             | Indianapolis, IN             | 4754          | COMPOSITE       | 285 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions             | City of Industry, CA         | 4186          | COMPOSITE       | 250 U         | A                             |                       |
| United Plate Glass Co., Inc.                     | Butler, PA                   | 2470          | COMPOSITE       | 100 U         | A                             |                       |
| United Plate Glass Company of Charlotte          | Lincolnton, NC               | 3951          | COMPOSITE       | 100 U         | A                             |                       |
| Upstate Glass Tempering Inc.                     | Middletown, NY               | 4927          | COMPOSITE       | 400 U         | A                             |                       |
| Vidrio Bisel S.A. de C.V.                        | Santa Catarina, Nuevo Leon   | 4967          | COMPOSITE       | 900 U         | A                             |                       |
| Vidrios El Castillo SC de RL de CV               | Escobedo, Nuevo Leon, Mexico | 3986          | COMPOSITE       | 550 U         | A                             |                       |
| Viracon Inc.                                     | Statesboro, GA               | 2311          | COMP+CAN        | 165 U         | A                             |                       |
| Viracon Inc.                                     | Owatonna, MN                 | 1508          | COMP+CAN        | 150 U         | A                             |                       |
| Virginia Glass Products Corp.                    | Martinsville, VA             | 93            | COMPOSITE       | 100 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                             |                       |
| WSD Glass, Inc.                                  | Winston-Salem, NC            | 4052          | COMPOSITE       | 165 U         | A                             |                       |
| Wujiang CSG Huadong Architectural Glass Co., LTD | Wujiang City, China          | 4855          | COMPOSITE       | 750 U         | A                             |                       |
| XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)   | GuangDong, China             | 3054          | COMP+CAN        | 125 U         | A                             |                       |
| Yao Xiang Glass Product Co. Ltd.                 | Guang Dong China             | 3740          | COMPOSITE       | 285 U         | A                             |                       |
| <i>1/2 Inch Tempered Transparent Glass</i>       |                              |               |                 |               |                               |                       |
| A Plus Glass Services                            | Medley, FL                   | 4773          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America                     | Richmond, VA                 | 1959          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Flat Glass North America                     | Marietta, GA                 | 1406          | COMPOSITE       | 165 U         | A                             |                       |
| AGC Flat Glass North America                     | Knoxville, TN                | 4159          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America                     | Alvarado, TX                 | 1712          | COMPOSITE       | 175 U         | A                             |                       |
| AGC Flat Glass North America                     | San Antonio, TX              | 4277          | COMPOSITE       | 550 U         | A                             |                       |
| AGC Flat Glass North America                     | Opelousas, LA                | 3707          | COMPOSITE       | 550 U         | A                             |                       |
| AGC Flat Glass North America                     | Salt Lake City, UT           | 4269          | COMPOSITE       | 250 U         | A                             |                       |
| AGC Flat Glass North America                     | Jacksonville, FL             | 3010          | COMPOSITE       | 285 U         | A                             |                       |
| AGC Flat Glass North America                     | Fall River, MA               | 1522          | COMPOSITE       | 400 U         | A                             |                       |
| AGC Flat Glass North America                     | Winnipeg, MB                 | 4943          | COMP+CAN        | 150 U         | A                             |                       |
| AGC Flat Glass North America                     | Hebron, OH                   | 2200          | COMPOSITE       | 200 U         | A                             |                       |
| AGC Glass Company North America                  | Lithia Springs, GA           | 4987          | COMP+CAN        | 165 U         | A                             |                       |
| AGP, LLC                                         | Miramar, FL                  | 4719          | COMPOSITE       | 285 U         | A                             |                       |
| Al Abbar Architectural Glass                     | Dubai, United Arab Emirates  | 4590          | COMPOSITE       | 100 U         | A                             |                       |
| All Team Glass & Mirror, Ltd.                    | Woodbridge, ON Canada        | 1758          | COMPOSITE       | 100 U         | A                             |                       |
| Alyusuf Thermo Glass W.L.L.                      | Manama, Bahrain              | 4498          | COMPOSITE       | 285 U         | A                             |                       |
| American Shower Door                             | Los Angeles, CA              | 3041          | COMPOSITE       | 250 U         | A                             |                       |
| AVIC Sanxin Co. Ltd.                             | Shenzhen, China              | 3570          | COMPOSITE       | 285 U         | A                             |                       |
| Basco Engineered Products                        | Hamilton, OH                 | 3812          | COMPOSITE       | 200 U         | A                             |                       |
| Berkowitz, J.E.                                  | Pedricktown, NJ              | 1991          | COMPOSITE       | 100 U         | A                             |                       |
| Blue Star Glass Inc.                             | North Brunswick, NJ          | 4521          | COMPOSITE       | 100 U         | A                             |                       |
| Cameron Glass, Inc.                              | Broken Arrow, OK             | 2033          | COMPOSITE       | 500 U         | A                             |                       |
| Cardinal CG                                      | Northfield, MN               | 4630          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                      | Ocala, FL                    | 4317          | COMPOSITE       | 285 U         | A                             |                       |
| Cardinal LG                                      | Amery, WI                    | 4844          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal Tempering                               | Louisville, KY               | 3875          | COMPOSITE       | 900 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>          |                                 |               |                 |               |                               |                       |
| Chicago Tempered Glass, Inc.                        | Chicago, IL                     | 3090          | COMPOSITE       |               | 200 U                         | A                     |
| Coastal Glass Distributors                          | Charleston, SC                  | 4336          | COMPOSITE       |               | 285 U                         | A                     |
| Columbia Commercial Building Products, Acquisitions | Rockwall, TX                    | 5023          | COMP+CAN        |               | 175 U                         | A                     |
| Consolidated Glass Corp.                            | New Castle, PA                  | 2004          | COMPOSITE       |               | 285 U                         | A                     |
| Consolidated Glass Holdings, Inc.                   | S. Easton, MA                   | 1037          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                                | Valencia, CA                    | 3470          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                     | Tuscaloosa, AL                  | 2145          | COMPOSITE       |               | 150 U                         | A                     |
| Cuda Glass & Metals                                 | Wixom, MI                       | 4202          | COMPOSITE       |               | 150 U                         | A                     |
| D3 Glass, LLC                                       | Fort Myers, FL                  | 4793          | COMPOSITE       |               | 285 U                         | A                     |
| Dallas Flat Glass                                   | Carrollton, TX                  | 4567          | COMPOSITE       |               | 175 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       |               | 900 U                         | A                     |
| Dlubak Corporation                                  | Blairsville, PA                 | 3018          | COMPOSITE       |               | 100 U                         | A                     |
| Dongguan Dongfa Glass Product Co., Ltd              | Dongguan City, Guangdong, China | 4126          | ANSI ONLY       |               | 285 U                         | A                     |
| Downey Glass Industries, LLC                        | Pompano Beach, FL               | 2664          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Distributors                             | Jacksonville, FL                | 3826          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                           | Burnaby, BC                     | 4421          | COMPOSITE       |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                        | Secaucus, NJ                    | 2228          | COMPOSITE       |               | 100 U                         | A                     |
| Glass Design of Miami, Inc.                         | Miami, FL                       | 3607          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                                | Stoneville, NC                  | 2733          | COMPOSITE       |               | 100 U                         | A                     |
| Glaz-Tech Industries                                | 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                     |
| Goldray Industries Ltd.                             | Calgary, AB Canada              | 2449          | COMP+CAN        |               | 195 U                         | A                     |
| Guangdong Golden Glass Technologies                 | Guang Dong, China               | 3944          | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                           | Corsicana, TX                   | 1803          | COMPOSITE       |               | 550 U                         | A                     |
| Guardian Industries Corp.                           | Geneva, NY                      | 3673          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                           | DeWitt, IA                      | 2649          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Industries Corp.                           | Galax, VA                       | 4610          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Webster, Inc.                              | Webster, MA                     | 1235          | COMPOSITE       |               | 100 U                         | A                     |
| Industrial Tempering Glass                          | Brooklyn, NY                    | 3419          | COMPOSITE       |               | 100 U                         | A                     |
| Insulated Glass of America, Inc.                    | Dallas, NC                      | 3864          | COMPOSITE       |               | 800 U                         | A                     |
| Insulite Glass Co., Inc.                            | Olathe, KS                      | 3717          | COMPOSITE       |               | 150 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.                      | Xiamen, Fujian, China           | 2577          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass Co., Ltd             | Jiangmen, China                 | 4308          | COMP+CAN        |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                  | Zhangcha, Foshan China          | 3963          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                                      | Union City, TN                  | 4012          | COMPOSITE       | (IN)          | 550 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                     |
| Nashville Tempered Glass LLC                        | Hendersonville, TN              | 4148          | COMPOSITE       |               | 285 U                         | A                     |
| New Angle Beveling                                  | Hyde, PA                        | 4592          | COMPOSITE       |               | 100 U                         | A                     |
| NY Tempering LLC                                    | Maspeth, NY                     | 4903          | COMPOSITE       |               | 800 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Concord, ON                     | 3445          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Hauppauge, NY                   | 1550          | COMPOSITE       |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Schofield, WI                   | 3173          | COMP+CAN        |               | 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>1/2 Inch Tempered Transparent Glass</i>          |                              |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope™                         | Phoenix, AZ                  | 3133          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Houston, TX                  | 3161          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Los Angeles, CA              | 516           | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Calgary, AB                  | 3269          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Miami, FL                    | 3500          | COMPOSITE       |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Denver, CO                   | 3315          | COMPOSITE       |               | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Burnaby, BC                  | 3292          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Rock Hill, SC                | 3280          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Moorestown, NJ               | 3185          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Grand Prairie, TX            | 3256          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Shawnee, OK                  | 3100          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Warrenton, MO                | 3149          | COMPOSITE       |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Fremont, CA                  | 3196          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Indianapolis, IN             | 2214          | COMPOSITE       |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Vancouver, WA                | 3225          | COMPOSITE       |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Wright City, MO              | 3143          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Bensenville, IL              | 1384          | COMPOSITE       |               | 200 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Perrysburg, OH               | 3238          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Covington, GA                | 3334          | COMPOSITE       |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Montreal, QC Canada          | 2062          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Tampa, FL                    | 3121          | COMPOSITE       |               | 185 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Albertville, MN              | 3109          | COMPOSITE       |               | 150 U                         | A                     |
| PFG Glass                                           | Langley, BC                  | 3544          | COMP+CAN        |               | 750 U                         | A                     |
| Prelco Inc.                                         | Riviere-du-loup, QC          | 2048          | COMP+CAN        |               | 100 U                         | A                     |
| Prelco Inc.                                         | Saint-Jacques, New Brunswick | 4917          | COMPOSITE       |               | 100 U                         | A                     |
| Productos De Valor Agregado en Cristal S.A. de C.V. | Tlalnepantla, Mexico         | 4641          | COMPOSITE       |               | 550 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       |               | 185 U                         | A                     |
| SAAND Rexdale                                       | Rexdale, ON Canada           | 2806          | COMP+CAN        |               | 400 U                         | A                     |
| SF Tempering                                        | Dania Beach, FL              | 5021          | COMPOSITE       |               | 285 U                         | A                     |
| Shanghai Mingte Glass Technology Co., Ltd.          | Qingpu, Shanghai             | 4935          | COMP+CAN        |               | 250 U                         | A                     |
| Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE  | Shanghai, China              | 4072          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                         | Westbrook, ME                | 2966          | COMPOSITE       |               | 100 U                         | A                     |
| Swift Glass Co., Inc.                               | Elmira Heights, NY           | 1559          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                            | Syracuse, NY                 | 2657          | COMPOSITE       |               | 100 U                         | A                     |
| Tacoma Glass Mfg. Inc.                              | Lakewood, WA                 | 4732          | COMPOSITE       |               | 195 U                         | A                     |
| Taiwan Glass Industry Corporation                   | Taipei, Taiwan, ROC          | 3891          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                  | Surgoinsville, TN            | 4509          | COMPOSITE       |               | 285 U                         | A                     |
| Tecnolgass S.A.                                     | Barranquilla, Colombia       | 2135          | COMP+CAN        |               | 800 U                         | A                     |
| Texas Tempered Glass Inc.                           | 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                 | 4826          | COMPOSITE       |               | 285 U                         | A                     |
| Tianjin CSG Architectural Glass Co., Ltd.           | Tianjin, China               | 4026          | COMPOSITE       |               | 100 U                         | A                     |
| Triple Seal Ltd.                                    | Toronto, ON Canada           | 4358          | COMP+CAN        |               | 400 U                         | A                     |
| Tri-Star Glass                                      | Tulsa, OK                    | 4009          | COMPOSITE       |               | 175 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 & Aluminum Solutions                  | Grenada, MS                  | 4601          | 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>1/2 Inch Tempered Transparent Glass</i>                                                      |                               |               |                 |               |                               |                       |
| Trulite Glass & Aluminum Solutions                                                              | Columbus, OH                  | 4748          | COMPOSITE       |               | 285 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                                                            | Atlanta, GA                   | 866           | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Pittsburgh, PA                | 1788          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | City of Industry, CA          | 4187          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Houston, TX                   | 3928          | COMPOSITE       |               | 550 U                         | A                     |
| United Plate Glass Co., Inc.                                                                    | Butler, PA                    | 2471          | COMPOSITE       |               | 100 U                         | A                     |
| United Plate Glass Company of Charlotte                                                         | Lincolnton, NC                | 3952          | COMPOSITE       |               | 100 U                         | A                     |
| Vidrios El Castillo SC de RL de CV                                                              | Escobedo, Nuevo Leon, Mexico  | 3987          | COMPOSITE       |               | 550 U                         | A                     |
| Viracon Inc.                                                                                    | Owatonna, MN                  | 1509          | COMP+CAN        |               | 150 U                         | A                     |
| Virginia Glass Products Corp.                                                                   | Martinsville, VA              | 94            | COMPOSITE       |               | 100 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                     |
| WSD Glass, Inc.                                                                                 | Winston-Salem, NC             | 4050          | COMPOSITE       |               | 165 U                         | A                     |
| Wujiang CSG Huadong Architectural Glass Co., LTD                                                | Wujiang City, China           | 4856          | COMPOSITE       |               | 750 U                         | A                     |
| XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)                                                  | GuangDong, China              | 3055          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                                | Guang Dong China              | 3741          | COMPOSITE       |               | 285 U                         | A                     |
| <i>12 mm Tempered Transparent Glass (Conforms to thickness tolerance other than ASTM C1036)</i> |                               |               |                 |               |                               |                       |
| Dongguan CSG Architectural Glass Co., Ltd.                                                      | Dongguan City China           | 3937          | COMPOSITE       | (3)           | 125 U                         | A                     |
| Eckelt Glas GmbH                                                                                | Steyr, Austria                | 2853          | COMPOSITE       | (3)           | 100 U                         | A                     |
| Gulf Glass Industries, LLC                                                                      | Sharjah, United Arab Emirates | 4798          | COMPOSITE       | (3)           | 100 U                         | A                     |
| Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE                                               | Tianjin, China                | 4079          | COMPOSITE       | (3)           | 125 U                         | A                     |
| <i>1/2 Inch Tempered Transparent Glass</i>                                                      |                               |               |                 |               |                               |                       |
| Anthony International                                                                           | Madison, GA                   | 5018          | COMPOSITE       |               | 165 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, China               | 3571          | COMPOSITE       | (3)           | 285 U                         | A                     |
| Diamond Sea Glaze                                                                               | Langley, BC Canada            | 4505          | COMPOSITE       | (3)           | 750 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.                                                      | Dongguan City China           | 3938          | COMPOSITE       | (3)           | 125 U                         | A                     |
| Eckelt Glas GmbH                                                                                | Steyr, Austria                | 2854          | COMPOSITE       | (3)           | 100 U                         | A                     |
| Guangdong Golden Glass Technologies                                                             | Guang Dong, China             | 3945          | COMPOSITE       | (3)           | 125 U                         | A                     |
| Jiangmen SYP Engineering Glass Co., Ltd                                                         | Jiangmen, China               | 4309          | COMP+CAN        | (3)           | 125 U                         | A                     |
| SAAND Rexdale                                                                                   | Rexdale, ON Canada            | 4880          | COMP+CAN        | (3)           | 400 U                         | A                     |
| Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE                                              | Shanghai, China               | 4073          | COMPOSITE       | (3)           | 125 U                         | A                     |
| Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE                                               | Tianjin, China                | 4080          | COMPOSITE       | (3)           | 125 U                         | A                     |
| Tianjin CSG Architectural Glass Co., Ltd.                                                       | Tianjin, China                | 4027          | COMPOSITE       | (3)           | 100 U                         | A                     |
| Wujiang CSG Huadong Architectural Glass Co., LTD                                                | Wujiang City, China           | 4857          | COMPOSITE       | (3)           | 750 U                         | A                     |
| XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)                                                  | GuangDong, China              | 4179          | COMP+CAN        | (3)           | 125 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> |
|---------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <b><i>5/8 Inch Tempered Transparent Glass</i></b> |                             |               |                 |               |                               |                       |
| All Team Glass & Mirror, Ltd.                     | Woodbridge, ON Canada       | 4355          | COMPOSITE       |               | 100 U                         | A                     |
| Cuda Glass & Metals                               | Wixom, MI                   | 4203          | COMPOSITE       |               | 150 U                         | A                     |
| Dillmeier Enterprise, Inc.                        | Van Buren, AR               | 3916          | COMPOSITE       |               | 900 U                         | A                     |
| GGI Glass Distributors Corp.                      | Secaucus, NJ                | 3857          | COMPOSITE       |               | 100 U                         | A                     |
| Glass Dynamics, Inc.                              | Stoneville, NC              | 2731          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Perrysburg, OH              | 3239          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Concord, ON                 | 3446          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Hauppauge, NY               | 4181          | COMPOSITE       |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Fremont, CA                 | 4458          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Montreal, QC Canada         | 2063          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Burnaby, BC                 | 3293          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Los Angeles, CA             | 4387          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Moorestown, NJ              | 4054          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Albertville, MN             | 3110          | COMPOSITE       |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                       | Calgary, AB                 | 3270          | COMPOSITE       |               | 750 U                         | A                     |
| SIGCO, Inc.                                       | Westbrook, ME               | 4326          | COMPOSITE       |               | 100 U                         | A                     |
| Techni-Glass, Inc.                                | Surgoinsville, TN           | 4510          | COMPOSITE       |               | 285 U                         | A                     |
| Tecnolglass S.A.                                  | Barranquilla, Colombia      | 2365          | COMP+CAN        |               | 800 U                         | A                     |
| Triview Glass Industries                          | City of Industry, CA        | 5045          | COMP+CAN        |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions              | Pittsburgh, PA              | 4134          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions              | City of Industry, CA        | 4522          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions              | Atlanta, GA                 | 4089          | COMPOSITE       |               | 285 U                         | A                     |
| Virginia Glass Products Corp.                     | Martinsville, VA            | 2182          | COMPOSITE       |               | 100 U                         | A                     |
| <b><i>3/4 Inch Tempered Transparent Glass</i></b> |                             |               |                 |               |                               |                       |
| AGP, LLC                                          | Miramar, FL                 | 4810          | COMPOSITE       |               | 285 U                         | A                     |
| Al Abbar Architectural Glass                      | Dubai, United Arab Emirates | 3977          | COMPOSITE       |               | 100 U                         | A                     |
| All Team Glass & Mirror, Ltd.                     | Woodbridge, ON Canada       | 3656          | COMPOSITE       |               | 100 U                         | A                     |
| American Shower Door                              | Los Angeles, CA             | 4615          | COMPOSITE       |               | 250 U                         | A                     |
| AVIC Sanxin Co. Ltd.                              | Shenzhen, China             | 3572          | COMPOSITE       |               | 285 U                         | A                     |
| Beijing Northglass Safety Glass Co., Ltd          | Beijing, China              | 4681          | COMPOSITE       |               | 175 U                         | A                     |
| Berkowitz, J.E.                                   | Pedricktown, NJ             | 2647          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                              | Valencia, CA                | 3472          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                   | Tuscaloosa, AL              | 2644          | COMPOSITE       |               | 150 U                         | A                     |
| Cuda Glass & Metals                               | Wixom, MI                   | 4204          | COMPOSITE       |               | 150 U                         | A                     |
| D3 Glass, LLC                                     | Fort Myers, FL              | 4835          | COMPOSITE       |               | 285 U                         | A                     |
| Diamond Sea Glaze                                 | Langley, BC Canada          | 4506          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                        | Van Buren, AR               | 3917          | COMPOSITE       |               | 900 U                         | A                     |
| Dlubak Corporation                                | Blairsville, PA             | 3019          | COMPOSITE       |               | 100 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.        | Dongguan City China         | 3939          | COMPOSITE       |               | 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          | COMPOSITE       |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                      | Secaucus, NJ                | 3858          | COMPOSITE       |               | 100 U                         | A                     |
| Glass Dynamics, Inc.                              | Stoneville, NC              | 2734          | COMPOSITE       |               | 100 U                         | A                     |
| Glaz-Tech Industries                              | Englewood, CO               | 2190          | COMPOSITE       |               | 250 U                         | A                     |
| Guangdong Golden Glass Technologies               | Guang Dong, China           | 3946          | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                         | Galax, VA                   | 4611          | COMP+CAN        | (IN)          | 285 U                         | A                     |
| Hartung Glass Industries                          | Wilsonville, OR             | 4631          | COMPOSITE       |               | 195 U                         | A                     |
| Industrial Tempering Glass                        | Brooklyn, NY                | 4240          | 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>          |                              |               |                 |               |                               |                       |
| Jiangmen SYP Engineering Glass Co., Ltd             | Jiangmen, China              | 4310          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Covington, GA                | 3335          | COMPOSITE       |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Burnaby, BC                  | 3294          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Grand Prairie, TX            | 3257          | COMPOSITE       |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Albertville, MN              | 3111          | COMPOSITE       |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Perrysburg, OH               | 3240          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Denver, CO                   | 4245          | COMPOSITE       |               | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Calgary, AB                  | 3271          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Hauppauge, NY                | 1551          | COMPOSITE       |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Los Angeles, CA              | 2074          | COMPOSITE       |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Concord, ON                  | 3447          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Montreal, QC Canada          | 2885          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                         | Fremont, CA                  | 3197          | COMPOSITE       |               | 125 U                         | A                     |
| Prelco Inc.                                         | Riviere-du-loup, QC          | 4904          | COMP+CAN        |               | 100 U                         | A                     |
| Productos De Valor Agregado en Cristal S.A. de C.V. | Tlalnepantla, Mexico         | 4642          | COMPOSITE       |               | 550 U                         | A                     |
| Quality Glass & Mirror, Inc.                        | Mount Prospect, IL           | 3805          | COMPOSITE       |               | 500 U                         | A                     |
| SAAND Rexdale                                       | Rexdale, ON Canada           | 4879          | COMP+CAN        |               | 400 U                         | A                     |
| Shanghai Yaohua Pilkington Glass Co. Shanghai SYPE  | Shanghai, China              | 4074          | COMPOSITE       |               | 125 U                         | A                     |
| Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE   | Tianjin, China               | 4081          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                         | Westbrook, ME                | 4327          | COMPOSITE       |               | 100 U                         | A                     |
| Tecnoglass S.A.                                     | Barranquilla, Colombia       | 2894          | COMP+CAN        |               | 800 U                         | A                     |
| Tianjin CSG Architectural Glass Co., Ltd.           | Tianjin, China               | 4028          | COMPOSITE       |               | 100 U                         | A                     |
| Triview Glass Industries                            | City of Industry, CA         | 5046          | COMP+CAN        |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Pittsburgh, PA               | 4135          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Atlanta, GA                  | 2960          | COMPOSITE       |               | 285 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                     |
| United Plate Glass Co., Inc.                        | Butler, PA                   | 2472          | COMPOSITE       |               | 100 U                         | A                     |
| Vidrios El Castillo SC de RL de CV                  | Escobedo, Nuevo Leon, Mexico | 3988          | COMPOSITE       |               | 550 U                         | A                     |
| Virginia Glass Products Corp.                       | Martinsville, VA             | 95            | COMPOSITE       |               | 100 U                         | A                     |
| <i>7/8 Inch Tempered Transparent Glass</i>          |                              |               |                 |               |                               |                       |
| Guangdong Golden Glass Technologies                 | Guang Dong, China            | 4535          | COMPOSITE       |               | 125 U                         | A                     |
| <i>1 Inch Tempered Transparent Glass</i>            |                              |               |                 |               |                               |                       |
| GGI Glass Distributors Corp.                        | Secaucus, NJ                 | 4774          | COMPOSITE       |               | 100 U                         | A                     |
| <b><u>Tempered Patterned Glass</u></b>              |                              |               |                 |               |                               |                       |
| <i>1/8 Inch Tempered Patterned Glass</i>            |                              |               |                 |               |                               |                       |
| AGC Flat Glass North America                        | Quakertown, PA               | 2510          | COMPOSITE       | (m)           | 100 U                         | A                     |
| AGC Flat Glass North America                        | Jacksonville, FL             | 3011          | COMPOSITE       | (m)           | 285 U                         | A                     |
| AGC Flat Glass North America                        | Fall River, MA               | 4964          | COMPOSITE       | (s)           | 400 U                         | A                     |
| AGC Flat Glass North America                        | Salt Lake City, UT           | 4270          | COMPOSITE       | (s)           | 250 U                         | A                     |
| AGC Flat Glass North America                        | Alvarado, TX                 | 3815          | COMPOSITE       | (m)           | 175 U                         | A                     |
| AGC Flat Glass North America                        | Knoxville, TN                | 4207          | COMPOSITE       | (s)           | 285 U                         | A                     |
| AGC Flat Glass North America                        | Richmond, VA                 | 4649          | COMPOSITE       | (s)           | 100 U                         | A                     |
| AGC Flat Glass North America                        | Greenland, TN                | 587           | COMPOSITE       | (s)           | 285 U                         | A                     |
| AGC Flat Glass North America                        | Hebron, OH                   | 3768          | COMPOSITE       | (m)           | 200 U                         | A                     |
| AGC Flat Glass North America                        | Opelousas, LA                | 2902          | COMPOSITE       | (s)           | 550 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 Patterned Glass</i> |                    |               |                 |               |                               |                       |
| AGC Flat Glass North America             | San Antonio, TX    | 3818          | COMPOSITE (s)   |               | 550 U                         | A                     |
| AGC Glass Company North America          | Lithia Springs, GA | 4988          | COMP+CAN (m)    |               | 165 U                         | A                     |
| Amsco Windows                            | Salt Lake City, UT | 2582          | COMPOSITE (s)   |               | 750 U                         | A                     |
| Anlin Industries                         | Clovis, CA         | 3076          | COMPOSITE (m)   |               | 125 U                         | A                     |
| Basco Engineered Products                | Hamilton, OH       | 4687          | COMPOSITE (s)   |               | 200 U                         | A                     |
| Cardinal CG                              | Tumwater, WA       | 2954          | CPSC ONLY (s)   |               | 195 U                         |                       |
| Cardinal CG                              | Loveland, CO       | 4343          | COMPOSITE (s)   |               | 900 U                         | A                     |
| Cardinal CG                              | Galt, CA           | 3599          | COMPOSITE (s)   |               | 125 U                         | A                     |
| Cardinal CG                              | Spring Green, WI   | 2071          | COMP+CAN (s)    |               | 500 U                         | A                     |
| Cardinal CG                              | Northfield, MN     | 2011          | COMP+CAN (s)    |               | 150 U                         | A                     |
| Cardinal CG                              | Casa Grande, AZ    | 4103          | COMPOSITE (s)   |               | 250 U                         | A                     |
| Cardinal CG                              | Buford, GA         | 2146          | COMPOSITE (s)   |               | 165 U                         | A                     |
| Cardinal IG                              | Hood River, OR     | 2857          | COMPOSITE (m)   |               | 750 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                              | Vinton, VA         | 2923          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Cardinal IG                              | Spring Green, WI   | 1844          | COMP+CAN (s)    |               | 500 U                         | A                     |
| Cardinal IG                              | Waxahachie, TX     | 2397          | COMPOSITE (m)   |               | 900 U                         | A                     |
| Cardinal IG                              | Ocala, FL          | 4584          | COMPOSITE (m)   |               | 285 U                         | A                     |
| Cardinal IG                              | Mountain Top, PA   | 3073          | COMP+CAN (s)    |               | 100 U                         | A                     |
| Catalina Tempering                       | Mount Airy, NC     | 4581          | COMPOSITE (s)   |               | 165 U                         | A                     |
| Catalina Tempering                       | Easton, PA         | 4759          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Catalina Tempering Ohio                  | Utica, Ohio        | 4623          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Coastal Glass Distributors               | Charleston, SC     | 4332          | COMPOSITE (s)   |               | 285 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                     |
| Guardian Industries Corp.                | Galax, VA          | 4612          | COMP+CAN (s)    |               | 285 U                         | A                     |
| Guardian Industries Corp.                | Corsicana, TX      | 2458          | COMPOSITE (m)   |               | 550 U                         | A                     |
| Guardian Industries Corp.                | Kingsburg, CA      | 1303          | COMPOSITE (d)   |               | 125 U                         | A                     |
| Guardian Industries Corp.                | Richburg, SC       | 1683          | COMPOSITE (m)   |               | 285 U                         | A                     |
| Guardian Webster, Inc.                   | Webster, MA        | 3604          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Intigral                                 | Walton Hills, OH   | 3631          | COMP+CAN (m)    |               | 200 U                         | A                     |
| Kohler Company                           | Union City, TN     | 1983          | COMPOSITE (m)   |               | 550 U                         | A                     |
| Nashville Tempered Glass Corp.           | Nashville, TN      | 2420          | COMPOSITE (s)   |               | 285 U                         | A                     |
| Northwest Glass, Inc.                    | Billings, MT       | 3653          | COMPOSITE (s)   |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Miami, FL          | 3501          | COMPOSITE (s)   |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Vancouver, WA      | 3226          | COMPOSITE (s)   |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Denver, CO         | 3317          | COMPOSITE (s)   |               | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Tampa, FL          | 3122          | COMPOSITE (s)   |               | 185 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Moorestown, NJ     | 3186          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Concord, ON        | 4423          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Burnaby, BC        | 3295          | COMPOSITE (m)   |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Shawnee, OK        | 3101          | COMPOSITE (m)   |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Grand Prairie, TX  | 3425          | COMPOSITE (s)   |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Fremont, CA        | 3199          | COMPOSITE (s)   |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Indianapolis, IN   | 4384          | COMPOSITE (s)   |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Rock Hill, SC      | 3281          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Perrysburg, OH     | 3242          | COMP+CAN (s)    |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Phoenix, AZ        | 3134          | COMPOSITE (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> |
|-------------------------------------------|------------------------|---------------|-----------------|-----|---------------|-------------------------------|-----------------------|
| <i>1/8 Inch Tempered Patterned Glass</i>  |                        |               |                 |     |               |                               |                       |
| Oldcastle BuildingEnvelope™               | Calgary, AB            | 3272          | COMPOSITE       | (m) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™               | Warrenton, MO          | 3151          | COMPOSITE       | (s) |               | 500 u                         | A                     |
| Oldcastle BuildingEnvelope™               | Covington, GA          | 3336          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| PFG Glass                                 | Langley, BC            | 3547          | COMP+CAN        | (s) |               | 750 U                         | A                     |
| PGT Industries                            | Nokomis, FL            | 3880          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Quaker Window Products, Inc.              | Freeburg, MO           | 2968          | COMP+CAN        | (m) |               | 150 U                         | A                     |
| SAAND Rexdale                             | Rexdale, ON Canada     | 4537          | 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                     |
| Techni-Glass, Inc.                        | Surgoinsville, TN      | 3061          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Thermal Seal Insulating Glass             | Uxbridge, MA           | 4831          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| TRACO (Three Rivers Alum)                 | Cranberry Township, PA | 4394          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions      | Houston, TX            | 3930          | COMPOSITE       | (s) |               | 550 U                         | A                     |
| Trulite Glass and Aluminum Solutions      | Pittsburgh, PA         | 4452          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions      | Atlanta, GA            | 4090          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions      | Las Vegas, NV          | 4217          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions      | City of Industry, CA   | 4188          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| United Plate Glass Co., Inc.              | Butler, PA             | 2473          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| United Plate Glass Company of Charlotte   | Lincolnton, NC         | 3954          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| W. A. Wilson Inc.                         | Wheeling, WV           | 4174          | COMPOSITE       | (d) |               | 200 U                         | A                     |
| <i>5/32 Inch Tempered Patterned Glass</i> |                        |               |                 |     |               |                               |                       |
| AGC Flat Glass North America              | Alvarado, TX           | 2406          | COMPOSITE       | (d) |               | 175 U                         | A                     |
| AGC Flat Glass North America              | Greenland, TN          | 2980          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| AGC Flat Glass North America              | Hebron, OH             | 2768          | COMPOSITE       | (d) |               | 200 U                         | A                     |
| AGC Flat Glass North America              | Salt Lake City, UT     | 4271          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| AGC Flat Glass North America              | Fall River, MA         | 2160          | COMPOSITE       | (s) |               | 400 U                         | A                     |
| AGC Flat Glass North America              | San Antonio, TX        | 3647          | COMPOSITE       | (m) |               | 550 U                         | A                     |
| AGC Flat Glass North America              | Opelousas, LA          | 3708          | COMPOSITE       | (d) |               | 550 U                         | A                     |
| AGC Flat Glass North America              | Marietta, GA           | 1428          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| AGC Flat Glass North America              | Knoxville, TN          | 4981          | COMPOSITE       | (d) |               | 285 U                         | A                     |
| AGC Glass Company North America           | Lithia Springs, GA     | 4989          | COMP+CAN        | (d) |               | 165 U                         | A                     |
| Anlin Industries                          | Clovis, CA             | 3077          | COMPOSITE       | (d) |               | 125 U                         | A                     |
| Arlene Stained Glass & Door               | Houston, TX            | 3585          | COMPOSITE       | (s) |               | 550 U                         | A                     |
| Cardinal CG                               | Northfield, MN         | 2012          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Cardinal CG                               | Tumwater, WA           | 2955          | CPSC ONLY       | (d) |               | 195 U                         |                       |
| Cardinal CG                               | Casa Grande, AZ        | 4104          | COMPOSITE       | (d) |               | 250 U                         | A                     |
| Cardinal CG                               | Loveland, CO           | 4344          | COMPOSITE       | (d) |               | 900 U                         | A                     |
| Cardinal CG                               | Galt, CA               | 4347          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Cardinal CG                               | Waxahachie, TX         | 4047          | COMPOSITE       | (m) |               | 550 U                         | A                     |
| Cardinal IG                               | Greenfield, IA         | 1842          | COMP+CAN        | (d) |               | 500 U                         | A                     |
| Cardinal IG                               | Mountain Top, PA       | 3115          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Cardinal IG                               | Spring Green, WI       | 1845          | COMP+CAN        | (m) |               | 500 U                         | A                     |
| Cardinal IG                               | Tomah, WI              | 2322          | COMP+CAN        | (d) |               | 600 U                         | A                     |
| Cardinal IG                               | Fargo, ND              | 2285          | COMP+CAN        | (m) |               | 150 U                         | A                     |
| Cardinal IG                               | Waxahachie, TX         | 4091          | COMPOSITE       | (d) |               | 900 U                         | A                     |
| Cardinal IG                               | Hood River, OR         | 4836          | COMPOSITE       | (d) |               | 750 U                         | A                     |
| Cardinal IG                               | Vinton, VA             | 2924          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| Cardinal IG                               | Fremont, IN            | 2204          | COMP+CAN        | (d) |               | 150 U                         | A                     |
| Catalina Tempering                        | Easton, PA             | 4760          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| Catalina Tempering                        | Mount Airy, NC         | 4742          | COMPOSITE       | (m) |               | 165 U                         | A                     |
| Catalina Tempering Ohio                   | Utica, Ohio            | 4624          | COMPOSITE       | (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>          |                                   |               |                 |               |                               |                       |
| Coastal Glass Distributors                         | Charleston, SC                    | 4333          | COMPOSITE       | (d)           | 285 U                         | A                     |
| Consolidated Glass Corp.                           | New Castle, PA                    | 2355          | COMPOSITE       | (m)           | 285 U                         | A                     |
| Contour Industries, Inc.                           | Surgoinsville, TN                 | 4704          | COMP+CAN        | (s)           | 285 U                         | A                     |
| Contractors Wardrobe                               | Valencia, CA                      | 3474          | COMP+CAN        | (d)           | 250 U                         | A                     |
| Dongguan Trillion Aluminum Glass Co., Ltd          | Dongguan City, Guangdong Province | 5030          | COMPOSITE       | (s)           | 285 U                         | A                     |
| Flat Glass Distributors                            | Jacksonville, FL                  | 3829          | COMPOSITE       | (d)           | 285 U                         | A                     |
| GGI Glass Distributors Corp.                       | Secaucus, NJ                      | 3970          | COMPOSITE       | (s)           | 100 U                         | A                     |
| Guardian Industries Corp.                          | Kingsburg, CA                     | 1301          | COMPOSITE       | (m)           | 125 U                         | A                     |
| Guardian Industries Corp.                          | Richburg, SC                      | 1635          | COMPOSITE       | (m)           | 285 U                         | A                     |
| Guardian Industries Corp.                          | Corsicana, TX                     | 2459          | COMPOSITE       | (m)           | 550 U                         | A                     |
| Guardian Webster, Inc.                             | Webster, MA                       | 2451          | COMPOSITE       | (m)           | 100 U                         | A                     |
| Intigral                                           | Walton Hills, OH                  | 4588          | COMP+CAN        | (m)           | 200 U                         | A                     |
| JYC Glass Co. Ltd.                                 | Zhangcha, Foshan China            | 4161          | COMPOSITE       | (m)           | 125 U                         | A                     |
| Kohler Company                                     | Union City, TN                    | 3532          | COMPOSITE       | (m)           | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Warrenton, MO                     | 3152          | COMPOSITE       | (s)           | 500 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Phoenix, AZ                       | 3135          | COMPOSITE       | (s)           | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Grand Prairie, TX                 | 3426          | COMPOSITE       | (m)           | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Shawnee, OK                       | 3102          | COMPOSITE       | (m)           | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Burnaby, BC                       | 3296          | COMPOSITE       | (d)           | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Moorestown, NJ                    | 3187          | COMPOSITE       | (d)           | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Albertville, MN                   | 3112          | COMPOSITE       | (s)           | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Vancouver, WA                     | 3227          | COMPOSITE       | (d)           | 195 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Covington, GA                     | 3337          | COMPOSITE       | (s)           | 165 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Denver, CO                        | 3318          | COMPOSITE       | (d)           | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Houston, TX                       | 3163          | COMPOSITE       | (d)           | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Schofield, WI                     | 3177          | COMP+CAN        | (d)           | 600 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Calgary, AB                       | 3273          | COMPOSITE       | (d)           | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Rock Hill, SC                     | 4396          | COMPOSITE       | (d)           | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Fremont, CA                       | 3200          | COMPOSITE       | (s)           | 125 U                         | A                     |
| PFG Glass                                          | Langley, BC                       | 3548          | COMP+CAN        | (d)           | 750 U                         | A                     |
| Quaker Window Products, Inc.                       | Freeburg, MO                      | 2969          | COMP+CAN        | (IN)(m)       | 150 U                         | A                     |
| SAAND Rexdale                                      | Rexdale, ON Canada                | 4538          | COMP+CAN        | (s)           | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                        | Sweetwater, TN                    | 1424          | COMP+CAN        | (s)           | 285 U                         | A                     |
| SIGCO, Inc.                                        | Westbrook, ME                     | 2967          | COMPOSITE       | (m)           | 100 U                         | A                     |
| Techni-Glass, Inc.                                 | Surgoinsville, TN                 | 5050          | COMPOSITE       | (m)           | 285 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Tian Jin, China                   | 3460          | COMPOSITE       | (d)           | 250 U                         | A                     |
| Tri-Star Glass                                     | Tulsa, OK                         | 4010          | COMPOSITE       | (s)           | 175 U                         | A                     |
| Trulite Glass & Aluminum Solutions                 | Grenada, MS                       | 4794          | COMPOSITE       | (s)           | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Las Vegas, NV                     | 4218          | COMPOSITE       | (m)           | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | City of Industry, CA              | 4372          | COMPOSITE       | (s)           | 250 U                         | A                     |
| United Plate Glass Co., Inc.                       | Butler, PA                        | 2683          | COMPOSITE       | (d)           | 100 U                         | A                     |
| United Plate Glass Company of Charlotte            | Lincolnton, NC                    | 4636          | COMPOSITE       | (d)           | 100 U                         | A                     |
| <i>3/16 Inch Tempered Patterned Glass</i>          |                                   |               |                 |               |                               |                       |
| AGC Flat Glass North America                       | San Antonio, TX                   | 4342          | COMPOSITE       | (d)           | 550 U                         | A                     |
| AGC Flat Glass North America                       | Opelousas, LA                     | 2903          | COMPOSITE       | (d)           | 550 U                         | A                     |
| AGC Flat Glass North America                       | Alvarado, TX                      | 1714          | COMPOSITE       | (m)           | 175 U                         | A                     |
| AGC Flat Glass North America                       | Knoxville, TN                     | 4160          | COMPOSITE       | (d)           | 285 U                         | A                     |
| AGC Flat Glass North America                       | Salt Lake City, UT                | 4272          | COMPOSITE       | (m)           | 250 U                         | A                     |
| AGC Flat Glass North America                       | Jacksonville, FL                  | 5049          | COMPOSITE       | (m)           | 285 U                         | A                     |
| AGC Flat Glass North America                       | Greenland, TN                     | 1139          | COMPOSITE       | (s)           | 285 U                         | A                     |

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

|                                    |                        | <u>SGCC #</u> | <u>Standard</u> |         | <u>Lab ID</u> | <u>Max Size</u><br><u>Certified</u> | <u>ANSI</u><br><u>CLASS</u> |
|------------------------------------|------------------------|---------------|-----------------|---------|---------------|-------------------------------------|-----------------------------|
| 3/16 Inch Tempered Patterned Glass |                        |               |                 |         |               |                                     |                             |
| AGC Flat Glass North America       | Quakertown, PA         | 3698          | COMPOSITE       | (m)     |               | 100 U                               | A                           |
| AGC Flat Glass North America       | Hebron, OH             | 2592          | COMPOSITE       | (d)     |               | 200 U                               | A                           |
| AGC Flat Glass North America       | Jacksonville, FL       | 3785          | COMPOSITE       | (s)     |               | 285 U                               | A                           |
| AGC Flat Glass North America       | Fall River, MA         | 1523          | COMPOSITE       | (m)     |               | 400 U                               | A                           |
| AGC Flat Glass North America       | Richmond, VA           | 2999          | COMPOSITE       | (m)     |               | 100 U                               | A                           |
| AGC Flat Glass North America       | Marietta, GA           | 2054          | COMPOSITE       | (d)     |               | 165 U                               | A                           |
| AGC Glass Company North America    | Lithia Springs, GA     | 4990          | COMP+CAN        | (d)     |               | 165 U                               | A                           |
| Amsco Windows                      | Salt Lake City, UT     | 2584          | COMPOSITE       | (m)     |               | 750 U                               | A                           |
| Anlin Industries                   | Clovis, CA             | 3078          | COMPOSITE       | (m)     |               | 125 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                        | Galt, CA               | 3601          | COMPOSITE       | (m)     |               | 125 U                               | A                           |
| Cardinal CG                        | Tumwater, WA           | 2956          | CPSC ONLY       | (m)     |               | 195 U                               |                             |
| Cardinal CG                        | Buford, GA             | 4599          | COMPOSITE       | (s)     |               | 165 U                               | A                           |
| Cardinal CG                        | Casa Grande, AZ        | 4105          | COMPOSITE       | (s)     |               | 250 U                               | A                           |
| Cardinal CG                        | Waxahachie, TX         | 2705          | COMPOSITE       | (m)     |               | 550 U                               | A                           |
| Cardinal CG                        | Northfield, MN         | 2013          | COMP+CAN        | (s)     |               | 150 U                               | A                           |
| Cardinal CG                        | Loveland, CO           | 4345          | COMPOSITE       | (m)     |               | 900 U                               | A                           |
| Cardinal IG                        | Fargo, ND              | 2286          | COMP+CAN        | (s)     |               | 150 U                               | A                           |
| Cardinal IG                        | Mountain Top, PA       | 3072          | COMP+CAN        | (s)     |               | 100 U                               | A                           |
| Cardinal IG                        | Waxahachie, TX         | 2399          | COMPOSITE       | (m)     |               | 900 U                               | A                           |
| Cardinal IG                        | Greenfield, IA         | 1843          | COMP+CAN        | (s)     |               | 500 U                               | A                           |
| Cardinal IG                        | Vinton, VA             | 3619          | COMPOSITE       | (s)     |               | 100 U                               | A                           |
| Cardinal IG                        | Tomah, WI              | 2323          | COMP+CAN        | (d)     |               | 600 U                               | A                           |
| Cardinal IG                        | Spring Green, WI       | 1846          | COMP+CAN        | (s)     |               | 500 U                               | A                           |
| Cardinal IG                        | Fremont, IN            | 2205          | COMP+CAN        | (s)     |               | 150 U                               | A                           |
| Cardinal IG                        | Hood River, OR         | 2859          | COMPOSITE       | (m)     |               | 750 U                               | A                           |
| Catalina Tempering                 | Mount Airy, NC         | 4582          | COMPOSITE       | (s)     |               | 165 U                               | A                           |
| Catalina Tempering                 | Easton, PA             | 4761          | COMPOSITE       | (d)     |               | 100 U                               | A                           |
| Catalina Tempering Ohio            | Utica, Ohio            | 4625          | COMPOSITE       | (s)     |               | 100 U                               | A                           |
| Coastal Glass Distributors         | Charleston, SC         | 4334          | COMPOSITE       | (d)     |               | 285 U                               | A                           |
| Consolidated Glass Corp.           | New Castle, PA         | 2354          | COMPOSITE       | (m)     |               | 285 U                               | A                           |
| Consolidated Glass Holdings, Inc.  | S. Easton, MA          | 1939          | COMPOSITE       | (s)     |               | 100 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)     |               | 150 U                               | A                           |
| Denver Glass Interiors, Inc.       | Englewood, CO          | 4101          | COMPOSITE       | (s)     |               | 175 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)(IN) |               | 285 U                               | A                           |
| GGI Glass Distributors Corp.       | Secaucus, NJ           | 3971          | COMPOSITE       | (s)     |               | 100 U                               | A                           |
| Glaz-Tech Industries               | Englewood, CO          | 2193          | COMPOSITE       | (s)     |               | 250 U                               | A                           |
| Guardian Industries Corp.          | Kingsburg, CA          | 1304          | COMPOSITE       | (m)     |               | 125 U                               | A                           |
| Guardian Industries Corp.          | Corsicana, TX          | 2460          | COMPOSITE       | (m)     |               | 550 U                               | A                           |
| Guardian Industries Corp.          | Richburg, SC           | 1865          | COMPOSITE       | (m)     |               | 285 U                               | A                           |
| Guardian Industries Corp.          | Galax, VA              | 4613          | COMP+CAN        | (m)     |               | 285 U                               | A                           |
| Guardian Webster, Inc.             | Webster, MA            | 2603          | COMPOSITE       | (m)     |               | 100 U                               | A                           |
| JYC Glass Co. Ltd.                 | Zhangcha, Foshan China | 4162          | COMPOSITE       | (m)     |               | 125 U                               | A                           |
| Kohler Company                     | Union City, TN         | 1984          | COMPOSITE       | (s)     |               | 550 U                               | A                           |
| Nashville Tempered Glass Corp.     | Nashville, TN          | 2417          | COMPOSITE       | (s)     |               | 285 U                               | A                           |
| Northwest Glass, Inc.              | Billings, MT           | 3655          | COMPOSITE       | (m)     |               | 750 U                               | A                           |
| Oldcastle BuildingEnvelope™        | Shawnee, OK            | 3103          | COMPOSITE       | (m)     |               | 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 Patterned Glass</i>          |                        |               |                 |     |               |                               |                       |
| Oldcastle BuildingEnvelope™                        | Schofield, WI          | 3178          | COMP+CAN        | (d) |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Moorestown, NJ         | 3188          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Warrenton, MO          | 3153          | COMPOSITE       | (m) |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Concord, ON            | 4424          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Miami, FL              | 3502          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Burnaby, BC            | 3297          | COMPOSITE       | (d) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Vancouver, WA          | 3228          | COMPOSITE       | (m) |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Wright City, MO        | 4833          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Denver, CO             | 3319          | COMPOSITE       | (m) |               | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Albertville, MN        | 3113          | COMPOSITE       | (s) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Phoenix, AZ            | 3136          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Bensenville, IL        | 3596          | COMPOSITE       | (m) |               | 200 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Fremont, CA            | 3201          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Los Angeles, CA        | 935           | COMPOSITE       | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Hauppauge, NY          | 3492          | COMPOSITE       | (d) |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Houston, TX            | 3164          | COMPOSITE       | (m) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Covington, GA          | 3338          | COMPOSITE       | (m) |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Calgary, AB            | 3274          | COMPOSITE       | (d) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Grand Prairie, TX      | 3427          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Perrysburg, OH         | 3243          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Rock Hill, SC          | 3283          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Tampa, FL              | 3124          | COMPOSITE       | (m) |               | 185 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Indianapolis, IN       | 2215          | COMPOSITE       | (s) |               | 150 U                         | A                     |
| PGF Glass                                          | Langley, BC            | 3549          | COMP+CAN        | (m) |               | 750 U                         | A                     |
| PGT Industries                                     | Nokomis, FL            | 3881          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Quaker Window Products, Inc.                       | Freeburg, MO           | 3486          | COMP+CAN        | (m) |               | 150 U                         | A                     |
| Ready Glass & Mirror, Inc.                         | Hialeah, FL            | 4136          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| RF Supply, Inc.                                    | Bradenton, FL          | 4229          | COMPOSITE       | (d) |               | 185 U                         | A                     |
| SAAND Rexdale                                      | Rexdale, ON Canada     | 4539          | COMP+CAN        | (s) |               | 400 U                         | A                     |
| SIGCO, Inc.                                        | Westbrook, ME          | 3028          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Techni-Glass, Inc.                                 | Surgoinsville, TN      | 2550          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Tian Jin, China        | 3431          | COMPOSITE       | (m) |               | 250 U                         | A                     |
| TRACO (Three Rivers Alum)                          | Cranberry Township, PA | 4395          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Tri-Star Glass                                     | Tulsa, OK              | 4011          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Las Vegas, NV          | 4219          | COMPOSITE       | (m) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | City of Industry, CA   | 4373          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Pittsburgh, PA         | 1790          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Atlanta, GA            | 3554          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Indianapolis, IN       | 4750          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Houston, TX            | 3931          | COMPOSITE       | (s) |               | 550 U                         | A                     |
| United Plate Glass Co., Inc.                       | Butler, PA             | 2474          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| United Plate Glass Company of Charlotte            | Lincolnton, NC         | 3955          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| W. A. Wilson Inc.                                  | Wheeling, WV           | 4175          | COMPOSITE       | (d) |               | 200 U                         | A                     |
| WSD Glass, Inc.                                    | Winston-Salem, NC      | 4051          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| <i>7/32 Inch Tempered Patterned Glass</i>          |                        |               |                 |     |               |                               |                       |
| Guardian Webster, Inc.                             | Webster, MA            | 3024          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Albertville, MN        | 3114          | COMPOSITE       | (s) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                        | Indianapolis, IN       | 4386          | COMPOSITE       | (d) |               | 150 U                         | A                     |
| <i>1/4 Inch Tempered Patterned Glass</i>           |                        |               |                 |     |               |                               |                       |
| AGC Flat Glass North America                       | San Antonio, TX        | 3819          | COMPOSITE       | (s) |               | 550 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>1/4 Inch Tempered Patterned Glass</i></b>  |                                    |               |                  |               |                               |                       |
| AGC Flat Glass North America                     | Knoxville, TN                      | 4980          | COMPOSITE (m)    |               | 285 U                         | A                     |
| AGC Flat Glass North America                     | Hebron, OH                         | 3081          | COMPOSITE (d)    |               | 200 U                         | A                     |
| AGC Flat Glass North America                     | Opelousas, LA                      | 3709          | COMPOSITE (d)    |               | 550 U                         | A                     |
| AGC Glass Company North America                  | Lithia Springs, GA                 | 4991          | COMP+CAN (m)     |               | 165 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 IG                                      | Ocala, FL                          | 4587          | COMPOSITE (s)    |               | 285 U                         | A                     |
| Changshu Xingfu Glass Building Material Co., LTD | Changshu, Jiangshu Province, China | 4237          | COMPOSITE (s)    |               | 195 U                         | A                     |
| Coastal Glass Distributors                       | Charleston, SC                     | 4338          | COMPOSITE (m)    |               | 285 U                         | A                     |
| Consolidated Glass Corp.                         | New Castle, PA                     | 4714          | COMPOSITE (m)    |               | 285 U                         | A                     |
| Contractors Wardrobe                             | Valencia, CA                       | 3476          | COMP+CAN (m)     |               | 250 U                         | A                     |
| Coral Industries Glass Division                  | Tuscaloosa, AL                     | 2944          | COMPOSITE (d)    |               | 150 U                         | A                     |
| Denver Glass Interiors, Inc.                     | Englewood, CO                      | 4507          | COMPOSITE (s)    |               | 175 U                         | A                     |
| Dongguan Trillion Aluminum Glass Co., Ltd        | Dongguan City, Guangdong Province  | 5031          | COMPOSITE (s)    |               | 285 U                         | A                     |
| GGI Glass Distributors Corp.                     | Secaucus, NJ                       | 3972          | COMPOSITE (s)    |               | 100 U                         | A                     |
| Guardian Industries Corp.                        | Kingsburg, CA                      | 1882          | COMPOSITE (m)    |               | 125 U                         | A                     |
| Guardian Industries Corp.                        | Richburg, SC                       | 3002          | COMPOSITE (m)    |               | 285 U                         | A                     |
| Guardian Webster, Inc.                           | Webster, MA                        | 4656          | COMPOSITE (s)    |               | 100 U                         | A                     |
| JYC Glass Co. Ltd.                               | Zhangcha, Foshan China             | 4163          | COMPOSITE (s)    |               | 125 U                         | A                     |
| Kohler Company                                   | Union City, TN                     | 2918          | COMPOSITE (m)    |               | 550 U                         | A                     |
| Mercer Glass Fab LLC                             | Trenton, NJ                        | 4257          | COMPOSITE (m)    |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Covington, GA                      | 3339          | COMPOSITE (m)    |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Bensenville, IL                    | 3597          | COMPOSITE (d)    |               | 200 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Albertville, MN                    | 3561          | COMPOSITE (s)    |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Calgary, AB                        | 3275          | COMPOSITE (m)    |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Fremont, CA                        | 3907          | COMPOSITE (m)    |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Denver, CO                         | 3320          | COMPOSITE (s)    |               | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Warrenton, MO                      | 3154          | COMPOSITE (m)    |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Houston, TX                        | 3165          | COMPOSITE (m)    |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Tampa, FL                          | 3125          | COMPOSITE (m)    |               | 185 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Moorestown, NJ                     | 3189          | COMPOSITE (m)    |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Schofield, WI                      | 3179          | COMP+CAN (d)     |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Miami, FL                          | 4477          | COMPOSITE (d)    |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Phoenix, AZ                        | 3999          | COMPOSITE (s)    |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Vancouver, WA                      | 3229          | COMPOSITE (m)    |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Los Angeles, CA                    | 4133          | COMPOSITE (s)    |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Perrysburg, OH                     | 3244          | COMP+CAN (m)     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™                      | Rock Hill, SC                      | 3284          | COMPOSITE (d)    |               | 100 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                     |
| Techni-Glass, Inc.                               | Surgoinsville, TN                  | 3060          | COMPOSITE (m)    |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Las Vegas, NV                      | 4220          | COMPOSITE (m)    |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | City of Industry, CA               | 4189          | COMPOSITE (s)    |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions             | Atlanta, GA                        | 4555          | COMPOSITE (m)    |               | 285 U                         | A                     |
| United Plate Glass Co., Inc.                     | Butler, PA                         | 2475          | COMPOSITE (m)    |               | 100 U                         | A                     |
| Vitra Vidrios Transformados SA de CV             | Cortes, Honduras                   | 5038          | COMPOSITE (d)    |               | 285 U                         | A                     |
| <b><i>3/8 Inch Tempered Patterned Glass</i></b>  |                                    |               |                  |               |                               |                       |
| AGC Flat Glass North America                     | Hebron, OH                         | 3082          | COMPOSITE (m)    |               | 200 U                         | A                     |
| AGC Flat Glass North America                     | Alvarado, TX                       | 4910          | COMPOSITE (m)    |               | 175 U                         | A                     |
| AGC Flat Glass North America                     | Opelousas, LA                      | 3710          | COMPOSITE (s)    |               | 550 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 Patterned Glass</i> |                      |               |                 |     |               |                               |                       |
| AGC Flat Glass North America             | Fall River, MA       | 4965          | COMPOSITE       | (s) |               | 400 U                         | A                     |
| AGC Flat Glass North America             | Salt Lake City, UT   | 4479          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| AGC Flat Glass North America             | San Antonio, TX      | 3820          | COMPOSITE       | (s) |               | 550 U                         | A                     |
| AGC Glass Company North America          | Lithia Springs, GA   | 4992          | COMP+CAN        | (s) |               | 165 U                         | A                     |
| American Shower Door                     | Los Angeles, CA      | 3043          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Coastal Glass Distributors               | Charleston, SC       | 4339          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Consolidated Glass Corp.                 | New Castle, PA       | 4785          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Contractors Wardrobe                     | Valencia, CA         | 3477          | COMP+CAN        | (s) |               | 250 U                         | A                     |
| Coral Industries Glass Division          | Tuscaloosa, AL       | 2945          | COMPOSITE       | (d) |               | 150 U                         | A                     |
| D3 Glass, LLC                            | Fort Myers, FL       | 4791          | COMPOSITE       | (m) |               | 285 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                     |
| Guardian Industries Corp.                | Richburg, SC         | 3003          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Guardian Industries Corp.                | Galax, VA            | 4627          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Mercer Glass Fab LLC                     | Trenton, NJ          | 4258          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Grand Prairie, TX    | 3428          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Houston, TX          | 3166          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Denver, CO           | 3321          | COMPOSITE       | (s) |               | 550 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Calgary, AB          | 3262          | COMPOSITE       | (d) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Indianapolis, IN     | 3259          | COMPOSITE       | (s) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Bensenville, IL      | 3598          | COMPOSITE       | (d) |               | 200 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Warrenton, MO        | 3155          | COMPOSITE       | (d) |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Perrysburg, OH       | 3245          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Rock Hill, SC        | 3285          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Vancouver, WA        | 3230          | COMPOSITE       | (m) |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Miami, FL            | 3503          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Phoenix, AZ          | 3729          | COMPOSITE       | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Tampa, FL            | 4340          | COMPOSITE       | (s) |               | 185 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Covington, GA        | 3340          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Los Angeles, CA      | 3793          | COMPOSITE       | (d) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Fremont, CA          | 3203          | COMPOSITE       | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Burnaby, BC          | 4710          | COMPOSITE       | (s) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Albertville, MN      | 3127          | COMPOSITE       | (m) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Concord, ON          | 3448          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope™              | Moorestown, NJ       | 3190          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| RF Supply, Inc.                          | Bradenton, FL        | 4230          | COMPOSITE       | (d) |               | 185 U                         | A                     |
| SAAND Rexdale                            | Rexdale, ON Canada   | 4540          | COMP+CAN        | (s) |               | 400 U                         | A                     |
| SIGCO, Inc.                              | Westbrook, ME        | 4206          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Troy Systems LLC                         | Manassas, VA         | 4302          | 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     | Pittsburgh, PA       | 4453          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions     | Atlanta, GA          | 4554          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions     | Las Vegas, NV        | 4221          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| W. A. Wilson Inc.                        | Wheeling, WV         | 4176          | COMPOSITE       | (s) |               | 200 U                         | A                     |
| <i>1/2 Inch Tempered Patterned Glass</i> |                      |               |                 |     |               |                               |                       |
| Coral Industries Glass Division          | Tuscaloosa, AL       | 3817          | COMPOSITE       | (m) |               | 150 U                         | A                     |
| GGI Glass Distributors Corp.             | Secaucus, NJ         | 3974          | COMPOSITE       | (s) |               | 100 U                         | A                     |

**Tempered Bent Patterned Glass**

**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 Bent Patterned Glass</i>                                          |                               |               |                 |      |               |                               |                       |
| JYC Glass Co. Ltd.                                                                      | Zhangcha, Foshan China        | 4165          | COMPOSITE       | (m)  |               | 125 U                         | A                     |
| <i>1/4 Inch Tempered Bent Patterned Glass</i>                                           |                               |               |                 |      |               |                               |                       |
| JYC Glass Co. Ltd.                                                                      | Zhangcha, Foshan China        | 4166          | COMPOSITE       | (s)  |               | 125 U                         | A                     |
| Quaker Window Products, Inc.                                                            | Freeburg, MO                  | 3485          | ANSI ONLY       |      |               | 150 U                         | A                     |
| <b><u>Tempered Bent Glass</u></b>                                                       |                               |               |                 |      |               |                               |                       |
| <i>1/8 Inch Tempered Bent Glass</i>                                                     |                               |               |                 |      |               |                               |                       |
| Anthony International                                                                   | Madison, GA                   | 2727          | COMPOSITE       | (IN) |               | 165 U                         | A                     |
| <i>5/32 Inch Tempered Bent Glass</i>                                                    |                               |               |                 |      |               |                               |                       |
| Anthony International                                                                   | Madison, GA                   | 2305          | COMPOSITE       |      |               | 165 U                         | A                     |
| JYC Glass Co. Ltd.                                                                      | Zhangcha, Foshan China        | 3991          | COMPOSITE       |      |               | 125 U                         | A                     |
| Saint-Gobain SOVIS                                                                      | Thierry, France               | 1992          | COMPOSITE       |      |               | 400 U                         | A                     |
| Vetreria Valentini S.R.L.                                                               | Brescia, Italy                | 4246          | ANSI ONLY       |      |               | 400 U                         | A                     |
| <i>3/16 Inch Tempered Bent Glass</i>                                                    |                               |               |                 |      |               |                               |                       |
| Anthony International                                                                   | Madison, GA                   | 2306          | COMPOSITE       |      |               | 165 U                         | A                     |
| Jiaxing Joinbath Corporation                                                            | Jiaxing, Zhejiang, China      | 4828          | COMPOSITE       |      |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                      | Zhangcha, Foshan China        | 3992          | COMPOSITE       |      |               | 125 U                         | A                     |
| Saint-Gobain SOVIS                                                                      | Thierry, France               | 2770          | COMPOSITE       |      |               | 400 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                        | Guang Dong China              | 3742          | COMPOSITE       |      |               | 285 U                         | A                     |
| <i>1/4 Inch Tempered Bent Glass</i>                                                     |                               |               |                 |      |               |                               |                       |
| Anthony International                                                                   | Madison, GA                   | 2307          | COMPOSITE       |      |               | 165 U                         | A                     |
| Jiangmen SYP Engineering Glass Co., Ltd                                                 | Jiangmen, China               | 5052          | COMP+CAN        |      |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                      | Zhangcha, Foshan China        | 3993          | COMPOSITE       |      |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                                                             | Bensenville, IL               | 2308          | COMPOSITE       |      |               | 200 U                         | A                     |
| Saint-Gobain SOVIS                                                                      | Thierry, France               | 1864          | COMPOSITE       |      |               | 400 U                         | A                     |
| Spec-Temp, Inc.                                                                         | Antwerp, OH                   | 4811          | COMPOSITE       |      |               | 500 U                         | A                     |
| Vetreria Valentini S.R.L.                                                               | Brescia, Italy                | 2898          | ANSI ONLY       |      |               | 400 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                        | Guang Dong China              | 3743          | COMPOSITE       |      |               | 285 U                         | A                     |
| <i>6 mm Tempered Bent Glass (Conforms to thickness tolerance other than ASTM C1036)</i> |                               |               |                 |      |               |                               |                       |
| Bendheim Wall Systems                                                                   | Wunsiedel-Holenbrunn, Germany | 2570          | COMPOSITE       | (2)  |               | 100 20x76                     | A                     |
| <i>7 mm Tempered Bent Glass (Conforms to thickness tolerance other than ASTM C1036)</i> |                               |               |                 |      |               |                               |                       |
| Bendheim Wall Systems                                                                   | Wunsiedel-Holenbrunn, Germany | 2569          | COMPOSITE       | (2)  |               | 100 16x76                     | A                     |
| <i>5/16 Inch Tempered Bent Glass</i>                                                    |                               |               |                 |      |               |                               |                       |
| Jiangmen SYP Engineering Glass Co., Ltd                                                 | Jiangmen, China               | 5053          | COMP+CAN        |      |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                      | Zhangcha, Foshan China        | 3994          | COMPOSITE       |      |               | 125 U                         | A                     |
| <i>3/8 Inch Tempered Bent Glass</i>                                                     |                               |               |                 |      |               |                               |                       |
| Jiangmen SYP Engineering Glass Co., Ltd                                                 | Jiangmen, China               | 5054          | COMP+CAN        |      |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                                                             | Bensenville, IL               | 1536          | COMPOSITE       |      |               | 200 U                         | A                     |
| <i>1/2 Inch Tempered Bent Glass</i>                                                     |                               |               |                 |      |               |                               |                       |
| Jiangmen SYP Engineering Glass Co., Ltd                                                 | Jiangmen, China               | 5055          | COMP+CAN        |      |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope™                                                             | Bensenville, IL               | 2053          | COMPOSITE       |      |               | 200 U                         | A                     |
| <i>3/4 Inch Tempered Bent Glass</i>                                                     |                               |               |                 |      |               |                               |                       |
| Oldcastle BuildingEnvelope™                                                             | Bensenville, IL               | 3671          | COMPOSITE       |      |               | 200 U                         | A                     |
| <b><u>Laminated Transparent Glass</u></b>                                               |                               |               |                 |      |               |                               |                       |

**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>   |                             |               |                 |                    |                               |                       |
| 4mm Guardian Industries Corp.            | Galax, VA                   | 4632          | COMP+CAN        | .015(C1) (b)       | 285 U                         | B                     |
| 4-6mm SAAND Rexdale                      | Rexdale, ON Canada          | 2808          | COMP+CAN        | (.030) (b)         | 400 U                         | A                     |
| <i>(S) Laminated Transparent Glass</i>   |                             |               |                 |                    |                               |                       |
| 5mm AGC Flat Glass North America         | Carbondale, PA              | 4977          | COMPOSITE       | (.015) (b)         | 100 U                         | B                     |
| 5-6mm Cardinal IG                        | Ocala, FL                   | 4361          | COMPOSITE       | (.035) (ip)        | 285 U                         | A                     |
| 5-6mm Cardinal LG                        | Amery, WI                   | 4350          | COMP+CAN        | (.035) (ip)        | 150 U                         | A                     |
| 5mm Cardinal LG                          | Amery, WI                   | 4120          | COMP+CAN        | .015(C1) (b)       | 150 U                         | B                     |
| 5-6mm Cardinal LG                        | Amery, WI                   | 2976          | COMP+CAN        | (.030) (b)         | 150 U                         | A                     |
| 5-6mm Guardian Industries Corp.          | Reedley, CA                 | 4583          | COMPOSITE       | (.015)(C1) (b)     | 125 U                         | B                     |
| 5-6mm Guardian Industries Corp.          | Reedley, CA                 | 4360          | COMPOSITE       | (.030) (b)         | 125 U                         | A                     |
| 5-6mm Pennsylvania Insulating Glass      | Lewistown, PA               | 3918          | COMPOSITE       | (.030) (b)         | 100 U                         | A                     |
| 5-6mm Trulite Glass & Aluminum Solutions | Grenada, MS                 | 4743          | COMPOSITE       | (.030) (b)         | 175 U                         | A                     |
| <i>(S) Laminated Transparent Glass</i>   |                             |               |                 |                    |                               |                       |
| 6mm AGC Flat Glass North America         | Jacksonville, FL            | 4145          | COMPOSITE       | (.030) (b)         | 285 U                         | A                     |
| 6mm AGC Flat Glass North America         | Carbondale, PA              | 4644          | COMPOSITE       | (.030) (b)         | 100 U                         | A                     |
| 6mm AGC Flat Glass North America         | Jacksonville, FL            | 4144          | COMPOSITE       | (.015) (b)         | 285 U                         | B                     |
| 6mm Berkowitz, J.E.                      | Pedricktown, NJ             | 3749          | COMPOSITE       | (.030) (b)         | 100 U                         | A                     |
| 6mm Cardinal IG                          | Ocala, FL                   | 3509          | COMPOSITE       | (.030) (b)         | 285 U                         | A                     |
| 6mm Fairis C.A.                          | Ambato, Tungurahua, Ecuador | 4722          | COMPOSITE       | (.030) (b)         | 285 U                         | A                     |
| 6mm Glass Dynamics, Inc.                 | Stoneville, NC              | 4375          | COMPOSITE       | (.030) (b)         | 100 U                         | A                     |
| 6mm Glass Dynamics, Inc.                 | Stoneville, NC              | 4413          | COMPOSITE       | (.035) (ip)        | 100 U                         | A                     |
| 6mm Global Security Glazing              | Selma, AL                   | 4769          | COMP+CAN        | (.030) (b)         | 285 U                         | A                     |
| 6mm Guardian Industries Corp.            | Galax, VA                   | 4800          | COMP+CAN        | (.075) (b)(p)(el)6 | 285 U                         | A                     |
| 6mm Guardian Industries Corp.            | Galax, VA                   | 4633          | COMP+CAN        | (.030) (b)         | 285 U                         | A                     |
| 6mm Insulite Glass Co., Inc.             | Olathe, KS                  | 3718          | COMPOSITE       | (.030) (b)         | 150 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Fremont, CA                 | 4531          | COMPOSITE       | (.030) (b)         | 125 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Los Angeles, CA             | 4346          | COMPOSITE       | (.030) (b)         | 125 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Wright City, MO             | 4526          | COMP+CAN        | (.030) (b)         | 150 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Los Angeles, CA             | 4576          | COMPOSITE       | (.035) (ip)        | 125 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Perrysburg, OH              | 4700          | COMP+CAN        | (.030) (b)         | 100 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Tampa, FL                   | 4448          | COMPOSITE       | (.030) (b)         | 185 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Denver, CO                  | 4533          | COMPOSITE       | (.030) (b)         | 550 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Miami, FL                   | 4001          | COMPOSITE       | (.030) (b)         | 285 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Wright City, MO             | 4528          | COMP+CAN        | (.035) (ip)        | 150 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Fremont, CA                 | 4457          | COMPOSITE       | (.060) (ip)        | 125 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Grand Prairie, TX           | 3258          | COMPOSITE       | (.030) (b)         | 175 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Burnaby, BC                 | 4475          | COMPOSITE       | (.015) (b)         | 750 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Covington, GA               | 4391          | COMPOSITE       | (.030) (b)         | 165 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Denver, CO                  | 4455          | COMPOSITE       | (.035) (ip)        | 550 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Schofield, WI               | 3176          | COMP+CAN        | (.030) (b)         | 600 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Montreal, QC Canada         | 5025          | COMP+CAN        | (.030) (b)         | 100 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Miami, FL                   | 4397          | COMPOSITE       | (.030) (ip)        | 285 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Montreal, QC Canada         | 5024          | COMP+CAN        | (.015) (b)         | 100 U                         | B                     |
| 6mm Oldcastle BuildingEnvelope™          | Hauppauge, NY               | 3392          | COMPOSITE       | (.030) (b)         | 400 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope™          | Montreal, QC Canada         | 4432          | COMP+CAN        | (.035) (ip)        | 100 U                         | A                     |
| 6mm Prelco Inc.                          | Riviere-du-loup, QC         | 4905          | COMP+CAN        | (.030) (b)         | 100 U                         | A                     |
| 6mm Saint Gobain Mexico, S.A. de C.V.    | Morelos, Mexico             | 2269          | ANSI ONLY       | .015(C1) (b)       | 400 U                         | B                     |
| 6mm Saint Gobain Mexico, S.A. de C.V.    | Morelos, Mexico             | 2743          | COMPOSITE       | (.030) (b)         | 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> |
|--------------------------------------------------------|---------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>(S) Laminated Transparent Glass</i>                 |                                 |               |                 |               |                               |                       |
| 6mm Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB | Shanghai, China                 | 2779          | COMPOSITE       | (.030) (b)    | 125 U                         | A                     |
| 6mm Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE  | Tianjin, China                  | 4083          | COMPOSITE       | (.030) (b)    | 125 U                         | A                     |
| 6mm Taiwan Glass Industry Corporation                  | Taipei, Taiwan, ROC             | 3892          | COMPOSITE       | (.015) (b)    | 750 U                         | A                     |
| 6mm TRACO (Three Rivers Alum)                          | Cranberry Township, PA          | 2714          | COMPOSITE       | (.030) (b)    | 100 U                         | A                     |
| 6mm Tri-Star Glass                                     | Tulsa, OK                       | 4410          | COMPOSITE       | (.030) (b)    | 175 U                         | A                     |
| 6mm Triview Glass Industries                           | City of Industry, CA            | 5047          | COMP+CAN        | (.030) (b)    | 250 U                         | A                     |
| 6mm Trulite Glass & Aluminum Solutions                 | Columbus, OH                    | 3407          | COMPOSITE       | (.030) (b)    | 285 U                         | A                     |
| 6mm Trulite Glass & Aluminum Solutions                 | Orlando, FL                     | 3461          | COMPOSITE       | (.030) (b)    | 285 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions               | Houston, TX                     | 4666          | COMPOSITE       | (.030) (b)    | 550 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions               | New Berlin, WI                  | 3430          | COMPOSITE       | (.030) (b)    | 150 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions               | City of Industry, CA            | 4233          | COMPOSITE       | (.030) (b)    | 250 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions               | Fort Worth                      | 3603          | COMPOSITE       | (.030) (b)    | 175 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions               | Atlanta, GA                     | 3536          | COMPOSITE       | (.030) (b)    | 285 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions               | Youngsville, NC                 | 4437          | COMPOSITE       | (.030) (b)    | 165 U                         | A                     |
| 6mm Vidrio Bisel S.A. de C.V.                          | Santa Catarina, Nuevo Leon      | 4968          | COMPOSITE       | (.030) (b)    | 900 U                         | A                     |
| 6mm Vidrios El Castillo SC de RL de CV                 | Escobedo, Nuevo Leon, Mexico    | 4713          | COMPOSITE       | (.030) (b)    | 550 U                         | A                     |
| 6mm Vidrios El Castillo SC de RL de CV                 | Escobedo, Nuevo Leon, Mexico    | 4712          | COMPOSITE       | (.015) (b)    | 550 U                         | B                     |
| 6mm Viracon Inc.                                       | Statesboro, GA                  | 5017          | COMP+CAN        | (.030) (b)    | 165 U                         | A                     |
| 6mm Viracon Inc.                                       | Owatonna, MN                    | 1637          | COMP+CAN        | (.030) (b)    | 150 U                         | A                     |
| 6mm Viwinco, Inc.                                      | Morgantown, PA                  | 3406          | COMPOSITE       | (.090) (b)    | 100 U                         | A                     |
| 6mm XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)     | GuangDong, China                | 3056          | COMP+CAN        | (.030) (b)    | 125 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>                 |                                 |               |                 |               |                               |                       |
| 8-12mm AGC Flat Glass North America                    | Jacksonville, FL                | 4142          | COMPOSITE       | (.090) (ip)   | 285 U                         | A                     |
| 8-12, 19+mm AGC Flat Glass North America               | Jacksonville, FL                | 4141          | COMPOSITE       | (.030) (b)    | 285 U                         | A                     |
| 8mm AGC Flat Glass North America                       | Carbondale, PA                  | 4976          | COMPOSITE       | (.090) (b)    | 100 U                         | A                     |
| 8-16+mm Al Abbar Architectural Glass                   | Dubai, United Arab Emirates     | 3560          | COMPOSITE       | (.030) (b)    | 100 U                         | A                     |
| 8-12mm Cardinal IG                                     | Ocala, FL                       | 4362          | COMPOSITE       | (.035) (ip)   | 285 U                         | A                     |
| 8-12mm Cardinal IG                                     | Ocala, FL                       | 3510          | COMPOSITE       | (.030) (b)    | 285 U                         | A                     |
| 8-12mm Cardinal LG                                     | Amery, WI                       | 2462          | COMP+CAN        | (.030) (b)    | 150 U                         | A                     |
| 8-12mm Cardinal LG                                     | Amery, WI                       | 4351          | COMP+CAN        | (.035) (ip)   | 150 U                         | A                     |
| 8mm Changshu Zhongxin Bldg. Mat. Co.                   | Changshu City, China            | 4363          | COMP+CAN        | (.090) (b)    | 750 U                         | A                     |
| 8, 12mm Coastal Glass Distributors                     | Charleston, SC                  | 4337          | COMPOSITE       | (.060) (lu)   | 285 U                         | A                     |
| 8-12mm Dongguan CSG Architectural Glass Co., Ltd.      | Dongguan City China             | 4167          | COMPOSITE       | (.030) (b)    | 125 U                         | A                     |
| 8-12mm Dongguan Dongfa Glass Product Co., Ltd          | Dongguan City, Guangdong, China | 4123          | COMPOSITE       | (.030) (b)    | 285 U                         | A                     |
| 8-16+mm Glass Dynamics, Inc.                           | Stoneville, NC                  | 4376          | COMPOSITE       | (.030) (b)    | 100 U                         | A                     |
| 8-16+mm Glass Dynamics, Inc.                           | Stoneville, NC                  | 4414          | COMPOSITE       | (.035) (ip)   | 100 U                         | A                     |
| 8-12mm Guardian Industries Corp.                       | Reedley, CA                     | 4557          | COMPOSITE       | (.030) (b)    | 125 U                         | A                     |
| 8mm Guardian Industries Corp.                          | Galax, VA                       | 4658          | COMP+CAN        | (.030) (b)    | 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>(H) Laminated Transparent Glass</i>                     |                               |               |                 |                |                               |                       |
| 8mm Gulf Glass Industries, LLC                             | Sharjah, United Arab Emirates | 4799          | COMPOSITE       | (.030) (b)     | 100 U                         | A                     |
| 8mm Insulite Glass Co., Inc.                               | Olathe, KS                    | 3720          | COMPOSITE       | (.060) (b)     | 150 U                         | A                     |
| 8-16+mm Jiangmen SYP Engineering Glass Co., Ltd            | Jiangmen, China               | 4312          | COMP+CAN        | (.030) (b)     | 125 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Wright City, MO               | 4527          | COMP+CAN        | (.030) (b)     | 150 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Fremont, CA                   | 4460          | COMPOSITE       | (.030) (b)     | 125 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Los Angeles, CA               | 4563          | COMPOSITE       | (.030) (b)     | 125 U                         | A                     |
| 8-10mm Oldcastle BuildingEnvelope™                         | Montreal, QC Canada           | 4435          | COMP+CAN        | (.030) (b)     | 100 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Miami, FL                     | 4399          | COMPOSITE       | (.030) (ip)    | 285 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Wright City, MO               | 4529          | COMP+CAN        | (.035) (ip)    | 150 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Fremont, CA                   | 4461          | COMPOSITE       | (.060) (ip)    | 125 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Tampa, FL                     | 4449          | COMPOSITE       | (.030) (b)     | 185 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Burnaby, BC                   | 4476          | COMPOSITE       | (.015) (b)     | 750 U                         | A                     |
| 8, 12-16+mm Oldcastle BuildingEnvelope™                    | Montreal, QC Canada           | 4433          | COMP+CAN        | (.035) (ip)    | 100 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Schofield, WI                 | 4558          | COMP+CAN        | (.030) (b)     | 600 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Miami, FL                     | 4398          | COMPOSITE       | (.030) (b)     | 285 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Perrysburg, OH                | 4446          | COMP+CAN        | (.030) (b)     | 100 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Denver, CO                    | 4456          | COMPOSITE       | (.035) (ip)    | 550 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Houston, TX                   | 4402          | COMPOSITE       | (.030) (b)     | 175 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope™                        | Perrysburg, OH                | 4444          | COMP+CAN        | (.035) (ip)    | 100 U                         | A                     |
| 8-12mm Pennsylvania Insulating Glass                       | Lewistown, PA                 | 3919          | COMPOSITE       | (.030) (b)     | 100 U                         | A                     |
| 8-12mm PGT Industries                                      | Nokomis, FL                   | 2426          | COMPOSITE       | (.060) (b)     | 285 U                         | A                     |
| 8-12mm PGT Industries                                      | Nokomis, FL                   | 3482          | COMPOSITE       | (.090) (ip)    | 285 U                         | A                     |
| 8-16+mm Prelco Inc.                                        | Riviere-du-loup, QC           | 4906          | COMP+CAN        | (.030) (b)     | 100 U                         | A                     |
| 8-16+mm SAAND Rexdale                                      | Rexdale, ON Canada            | 3608          | COMP+CAN        | (.030) (b)     | 400 U                         | A                     |
| 8-10mm Saint Gobain Mexico, S.A. de C.V.                   | Morelos, Mexico               | 2267          | ANSI ONLY       | (.015)(C1) (b) | 400 U                         | B                     |
| 8, 12mm Saint Gobain Mexico, S.A. de C.V.                  | Morelos, Mexico               | 2332          | COMPOSITE       | (.030) (b)     | 400 U                         | A                     |
| 8mm Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB     | Shanghai, China               | 4353          | COMPOSITE       | (.030) (b)     | 125 U                         | A                     |
| 8-16+mm Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB | Shanghai, China               | 4807          | COMPOSITE       | (.035) (ip)    | 125 U                         | A                     |
| 8-16+mm Shanghai Yaohua Pilkington Glass Co. Tianjin SYPE  | Tianjin, China                | 4084          | COMPOSITE       | (.015) (b)     | 125 U                         | A                     |
| 8-12mm Tacoma Glass Mfg. Inc.                              | Lakewood, WA                  | 4735          | COMPOSITE       | (.030) (b)     | 195 U                         | A                     |
| 8-16+mm Tecnolglass S.A.                                   | Barranquilla, Colombia        | 4003          | COMP+CAN        | (.030) (b)     | 800 U                         | A                     |
| 8mm Tianjin CSG Architectural Glass Co., Ltd.              | Tianjin, China                | 4030          | COMPOSITE       | (.030) (b)     | 100 U                         | A                     |
| 8 & 12mm TRACO (Three Rivers Alum)                         | Cranberry Township, PA        | 2715          | COMPOSITE       | (.060) (b)     | 100 U                         | A                     |
| 8-12mm TRACO (Three Rivers Alum)                           | Cranberry Township, PA        | 2748          | COMPOSITE       | (.090) (ip)    | 100 U                         | A                     |
| 8mm Triview Glass Industries                               | City of Industry, CA          | 5048          | COMP+CAN        | (.060) (b)     | 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>(H) Laminated Transparent Glass</i>                      |                             |               |                 |                    |                               |                       |
| 8mm Trulite Glass & Aluminum Solutions                      | Grenada, MS                 | 4755          | COMPOSITE       | (.090) (b)         | 175 U                         | A                     |
| 8-16+mm Viracon Inc.                                        | Statesboro, GA              | 4779          | COMP+CAN        | (.030) (b)         | 165 U                         | A                     |
| 8-16+mm Viracon Inc.                                        | Owatonna, MN                | 4249          | COMP+CAN        | (.030) (b)         | 150 U                         | A                     |
| 8mm Viwinco, Inc.                                           | Morgantown, PA              | 3408          | COMPOSITE       | (.090) (b)         | 100 U                         | A                     |
| 8-16+mm Wujiang CSG Huadong Architectural Glass Co., LTD    | Wujiang City, China         | 4859          | COMPOSITE       | (.030) (b)         | 750 U                         | A                     |
| 8-16+mm XYG Glass (Div. of Xinyi Grp (Glass) Co. Ltd.)      | GuangDong, China            | 3489          | COMP+CAN        | (.030) (b)         | 125 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>                      |                             |               |                 |                    |                               |                       |
| 10-12mm AGC Flat Glass North America                        | Carbondale, PA              | 4232          | COMPOSITE       | (.030) (b)         | 100 U                         | A                     |
| 10-12mm Berkowitz, J.E.                                     | Pedricktown, NJ             | 3750          | COMPOSITE       | (.030) (b)         | 100 U                         | A                     |
| 10-12mm Fairis C.A.                                         | Ambato, Tungurahua, Ecuador | 4430          | COMPOSITE       | (.030) (b)         | 285 U                         | A                     |
| 10-16+mm Guangdong Golden Glass Technologies                | Guang Dong, China           | 3947          | COMPOSITE       | (.030) (b)         | 125 U                         | A                     |
| 10mm Guardian Industries Corp.                              | Galax, VA                   | 4829          | COMP+CAN        | (.075) (b)(p)(el)6 | 285 U                         | A                     |
| 10-12mm Insulite Glass Co., Inc.                            | Olathe, KS                  | 3723          | COMPOSITE       | (.030) (b)         | 150 U                         | A                     |
| 10-16+mm Oldcastle BuildingEnvelope™                        | Los Angeles, CA             | 4561          | COMPOSITE       | (.035) (ip)        | 125 U                         | A                     |
| 10-16+mm Oldcastle BuildingEnvelope™                        | Covington, GA               | 4392          | COMPOSITE       | (.030) (b)         | 165 U                         | A                     |
| 10-12mm Oldcastle BuildingEnvelope™                         | Covington, GA               | 4393          | COMPOSITE       | (.035) (ip)        | 165 U                         | A                     |
| 10-16+mm Oldcastle BuildingEnvelope™                        | Hauppauge, NY               | 4618          | COMPOSITE       | (.030) (b)         | 400 U                         | A                     |
| 10-16+mm Oldcastle BuildingEnvelope™                        | Denver, CO                  | 4454          | COMPOSITE       | (.030) (b)         | 550 U                         | A                     |
| 10mm Pulp Studio Inc.                                       | Los Angeles, CA             | 4685          | COMPOSITE       | (.030) (b)         | 250 U                         | A                     |
| 10mm Saint Gobain Mexico, S.A. de C.V.                      | Morelos, Mexico             | 3479          | COMPOSITE       | (.090) (b)         | 400 U                         | A                     |
| 10-16+mm Shanghai Yaohua Pilkington Glass Co. Shanghai SYPB | Shanghai, China             | 2780          | COMPOSITE       | (.015) (b)         | 125 U                         | A                     |
| 10mm Tianjin CSG Architectural Glass Co., Ltd.              | Tianjin, China              | 4106          | COMPOSITE       | (.045) (b)         | 100 U                         | A                     |
| 10mm TRACO (Three Rivers Alum)                              | Cranberry Township, PA      | 2716          | COMPOSITE       | (.030) (b)         | 100 U                         | A                     |
| 10-12mm Tri-Star Glass                                      | Tulsa, OK                   | 4411          | COMPOSITE       | (.030) (b)         | 175 U                         | A                     |
| 10-16+mm Trulite Glass & Aluminum Solutions                 | Grenada, MS                 | 4744          | COMPOSITE       | (.030) (b)         | 175 U                         | A                     |
| 10, 19+mm Vitraform, Inc.                                   | Denver, CO                  | 4274          | CPSC ONLY       | (.020) (lc)        | 175 U                         |                       |
| <i>(H) Laminated Transparent Glass</i>                      |                             |               |                 |                    |                               |                       |
| 12mm AGP, LLC                                               | Miramar, FL                 | 4789          | COMPOSITE       | (.090) (lu)        | 285 U                         | A                     |
| 12+mm AVIC Sanxin Co. Ltd.                                  | Shenzhen, China             | 3573          | COMPOSITE       | (.030) (b)         | 285 U                         | A                     |
| 12-16+mm Cuda Glass & Metals                                | Wixom, MI                   | 4924          | COMPOSITE       | (.030) (ip)        | 150 U                         | A                     |
| 12mm Dolphin Glass Specialists, LLC                         | Hialeah, FL                 | 4729          | COMPOSITE       | (.030) (b)         | 285 U                         | A                     |
| 12-16+mm Galaxy Glass & Stone                               | Fairfield, NJ               | 3661          | COMPOSITE       | (.060) (lu)        | 100 U                         | A                     |
| 12mm Global Security Glazing                                | Selma, AL                   | 4770          | COMP+CAN        | (.060) (b)         | 285 U                         | A                     |
| 12mm Oldcastle BuildingEnvelope™                            | Houston, TX                 | 4401          | COMPOSITE       | (.090) (ip)        | 175 U                         | A                     |
| 12-16+mm Oldcastle BuildingEnvelope™                        | Hauppauge, NY               | 4619          | COMPOSITE       | (.035) (ip)        | 400 U                         | A                     |
| 12-16+mm Oldcastle BuildingEnvelope™                        | Montreal, QC Canada         | 4436          | COMP+CAN        | (.030) (b)         | 100 U                         | A                     |
| 12mm Oldcastle BuildingEnvelope™                            | Tampa, FL                   | 5051          | COMPOSITE       | (.035) (ip)        | 185 U                         | A                     |
| 12mm Pulp Studio Inc.                                       | Los Angeles, CA             | 4711          | COMPOSITE       | (.075) (b)         | 250 U                         | A                     |
| 12mm Taiwan Glass Industry Corporation                      | Taipei, Taiwan, ROC         | 3893          | COMPOSITE       | (.015) (b)         | 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>(H) Laminated Transparent Glass</i>          |                                 |               |                 |                |               |                               |                       |
| 12mm Tianjin CSG Architectural Glass Co., Ltd.  | Tianjin, China                  | 4107          | COMPOSITE       | (.060) (b)     |               | 100 U                         | A                     |
| 12mm TRACO (Three Rivers Alum)                  | Cranberry Township, PA          | 2719          | COMPOSITE       | (.090) (b)     |               | 100 U                         | A                     |
| 12mm Trulite Glass and Aluminum Solutions       | Houston, TX                     | 4667          | COMPOSITE       | (.030) (b)     |               | 550 U                         | A                     |
| 12mm Viracon Inc.                               | Statesboro, GA                  | 4784          | COMP+CAN        | (.090) (ip)    |               | 165 U                         | A                     |
| 12-16+mm Viracon Inc.                           | Owatonna, MN                    | 4250          | COMP+CAN        | (.060) (ip)    |               | 150 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>          |                                 |               |                 |                |               |                               |                       |
| 16mm Dongguan Dongfa Glass Product Co., Ltd     | Dongguan City, Guangdong, China | 4124          | COMPOSITE       | (.030) (b)     |               | 285 U                         | A                     |
| 16+mm Guangdong Golden Glass Technologies       | Guang Dong, China               | 4723          | COMPOSITE       | (.015) (ip)    |               | 125 U                         | A                     |
| 16+mm Hartung Glass Industries Lami             | Langley, BC Canada              | 4431          | COMPOSITE       | (.060) (ip)    |               | 750 U                         | A                     |
| 16+mm Jiangmen SYP Engineering Glass Co., Ltd   | Jiangmen, China                 | 4575          | COMP+CAN        | (.060) (ip)    |               | 125 U                         | A                     |
| 16+mm Tianjin CSG Architectural Glass Co., Ltd. | Tianjin, China                  | 4108          | COMPOSITE       | (.090) (b)     |               | 100 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>          |                                 |               |                 |                |               |                               |                       |
| 22+mm Beijing Northglass Safety Glass Co., Ltd  | Beijing, China                  | 4279          | COMPOSITE       | (.060) (ip)    |               | 175 U                         | A                     |
| <b><u>Laminated Specialty Product</u></b>       |                                 |               |                 |                |               |                               |                       |
| <i>(S) Laminated Specialty Product</i>          |                                 |               |                 |                |               |                               |                       |
| 6mm Sage Electrochromics Inc.                   | Faribault, MN                   | 5015          | COMP+CAN        | (.030) (ip)    |               | 150 U                         | A                     |
| <i>(H) Laminated Specialty Product</i>          |                                 |               |                 |                |               |                               |                       |
| 8-12mm Sage Electrochromics Inc.                | Faribault, MN                   | 5016          | COMP+CAN        | (.030) (ip)    |               | 150 U                         | A                     |
| <b><u>Laminated Patterned Glass</u></b>         |                                 |               |                 |                |               |                               |                       |
| <i>(H) Laminated Patterned Glass</i>            |                                 |               |                 |                |               |                               |                       |
| 8-10mm PGT Industries                           | Nokomis, FL                     | 4801          | COMPOSITE       | (.060) (s)(b)  |               | 285 U                         | A                     |
| 8-10mm PGT Industries                           | Nokomis, FL                     | 4812          | COMPOSITE       | (.090) (s)(ip) |               | 285 U                         | A                     |

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|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>100 - Architectural Testing, Inc. (ATI)</b><br>130 Derry Court<br>York, PA 17406<br>Attn: Mr. Brady McNaughton<br>Phone: (717) 764-7700<br>Fax: (717) 764-4129<br>Email: bmcnaughton@archtest.com                                                            | <b>125 - Architectural Testing, Inc. (ATI)</b><br>2524 East Jensen Ave.<br>Fresno, CA 93706<br>Attn: Mr. Leaton Kirk or Kenny White<br>Phone: (559) 233-8705<br>Fax: (559) 233-8360<br>Email: lkirk@archtest.com<br>Email: kwhite@archtest.com | <b>150 - Architectural Testing, Inc. (ATI)</b><br>849 Western Ave. North<br>St. Paul, MN 55117-5345<br>Attn: Mr. Dan Johnson or Zane Wybest<br>Phone: (651) 636-3835<br>Fax: (651) 636-3843<br>Email: djohnson@archtest.com<br>Email: zwybest@archtest.com |
| <b>165 - Architectural Testing, Inc. (ATI)</b><br>1701 Westfork Dr. Suite 106<br>Lithia Springs, GA 30122<br>Attn: Jose Colon or Ryan Hedgepeth<br>Phone: (770) 941-6916<br>Fax: (770) 941-2930<br>Email: jcolon@archtest.com<br>Email: rhedgepeth@archtest.com | <b>175 - Architectural Testing, Inc. (ATI)</b><br>2865 Market Loop, Ste. B<br>Southlake, TX 76092<br>Attn: Mr. John Waskow<br>Phone: (817) 410-7202<br>Fax: (817) 424-8463<br>Email: Jwaskow@archtest.com                                      | <b>185 - Architectural Testing, Inc. (ATI)</b><br>2250 Massaro Blvd.<br>Tampa, FL 33619<br>Attn: John McClane<br>Phone: (813) 628-4300<br>Fax: (813) 628-4433<br>Email: jmcclane@archtest.com                                                              |
| <b>195 - Architectural Testing, Inc. (ATI)</b><br>22155 68th Ave. South<br>Kent, WA 98032-1937<br>Attn: Mr. Jeff Dideon<br>Phone: (253) 395-5656<br>Fax: (253) 395-5657<br>Email: jdideon@archtest.com                                                          | <b>200 - Bowser-Morner Inc.</b><br>4518 Taylorsville Road<br>Dayton, OH 45424<br>Attn: Mr. Jim Duncan<br>Phone: (937) 236-8805<br>Fax: (937) 237-9947<br>Email: jduncan@bowser-morner.com                                                      | <b>250 - Construction Consulting Laboratory West</b><br>4751 W. State St. Suite B<br>Ontario, CA 91762<br>Attn: Mr. Jack Jackson<br>Phone: (909) 591-1789<br>Fax: (909) 627-9020<br>Email: jackwjack@earthlink.net                                         |
| <b>285- Fenestration Testing Laboratory</b><br>8148 N.W. 74th Ave.<br>Medley, FL 33166<br>Attn: Mr. Manny Sanchez<br>Phone: (305) 885-3328<br>Fax: (305) 885-3329<br>Email: manny@fenlab.com                                                                    | <b>400 - Intertek</b><br>75 Clinton Avenue<br>Cortland, NY 13045-0950<br>Attn: Mr. Don James or Chris Snyder<br>Phone: (607) 423-5723<br>Fax: (607) 758-6666<br>Email: don.james@intertek.com<br>Email: chris.snyder@intertek.com              | <b>500 - Element Materials Technology</b><br>3922 Delaware Avenue<br>Des Moines, IA 50313<br>Attn: Mr. Brian Escherich<br>Phone: (515) 266-5101<br>Fax: (515) 262-1910<br>Email: brian.escherich@element.com                                               |
| <b>550 - Element Materials Technology</b><br>222 Cavalcade St.<br>Houston, TX 77009-3212<br>Attn: Mr. Terry Wilt<br>Phone: (713) 692-9151<br>Fax: (713) 696-6205<br>Email: terry.wilt@element.com                                                               | <b>600 - Element Materials Technology</b><br>115 S. 84th Ave.<br>Wausau, WI 54401-8434<br>Attn: Mr. 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: Mr. Jeff Douglas<br>Phone: (425) 259-6799<br>Fax: (425) 259-4936<br>Email: jdouglas@nctlinc.com                                                                              |
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