



safety glazing certification council

January 1, 2015

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

January 1, 2015

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/>

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

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

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

SGCC "Record of Compliance Testing" to support a manufacturer's CPSC Certificate of Compliance Testing may be obtained, when authorized by the SGCC licensee, at 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  
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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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January 1, 2015

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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> |
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| Bendheim Wall Systems                            | Robert Jayson         |                        |                         |
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| Changshu ZhongCheng Building Materials Co., Ltd. | Denise Lu             |                        |                         |
| Changshu Zhouxing Glass Co. Ltd.                 | Xiaodong Qian         |                        |                         |
| Chicago Tempered Glass, Inc.                     | Adam Kaczynski        |                        |                         |
| Classy Glass Specialties Co., Ltd                | Hang Hongmei          |                        |                         |
| ClearEdge Glass                                  | Brian LaBorde         |                        |                         |
| Cleer Vision Tempered Glass                      | Joseph Santelli       |                        |                         |
| Columbia Commercial Bldg Prod.                   | Brian Baldridge       | Steve Burns            |                         |
| Commercial Insulating Glass Co.                  | Jeff Winsler          |                        |                         |
| Consolidated Armor Products, LLC                 | Paul Sivertson        |                        |                         |
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| Contractors Wardrobe                             | Jack Violante         |                        |                         |
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| Denver Glass Interiors, Inc.                     | David Uhey            |                        |                         |
| Deqing Sanxing Plastic Chemical Co. Ltd.         | Yang Min              |                        |                         |
| Diamond Sea Glaze                                | Mark Chesley          |                        |                         |
| Dillmeier Enterprise, Inc.                       | Cody Tran             |                        |                         |
| Dolphin Glass Specialists, LLC                   | Jose Prieto           |                        |                         |
| DongGuan CSG Architectural Glass Co., Ltd.       | Yu GuangHui           |                        |                         |
| Dongguan Dongfa Glass Product Co., Ltd           | Shenwen Li            |                        |                         |
| Dongguan Trillion Aluminum Glass Co., Ltd        | David Chia            |                        |                         |

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| <b>Licensee</b>                                 | <b>Primary Member</b> | <b>First Alternate</b> | <b>Second Alternate</b> |
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| Eckelt Glas GmbH                                | Christian Eckelt      |                        |                         |
| EFCO Corporation                                | Mark Crane            |                        |                         |
| EFI                                             | Kenny McCutcheon      |                        |                         |
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| Fairis C.A.                                     | Jorge Jaramillo       |                        |                         |
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| Foshan NanHai Gangsheng Tempered Glass Factor   | Grace Chow            |                        |                         |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. | Zhiming Zeng          |                        |                         |
| Fujian Xihe Sanitary Ware Technology Co., Ltd   | Hunter Hao            |                        |                         |
| Fujiansheng Binchang Metal Products Co., Ltd    | Wenjun Huang          |                        |                         |
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| Glass Dynamics, Inc.                            | Conrad Lankford       |                        |                         |
| Glass Enterprises Inc.                          | Joshua Burg           |                        |                         |
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| Hartung Glass Industries                        | Bruce Butler          |                        |                         |
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| Insulite Glass Co., Inc.                        | Larry Vasholz         |                        |                         |
| Integral Seal Mfg. Inc.                         | Ben Nayot             |                        |                         |
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| Intex Glass (Xiamen) Co., Ltd.                  | Chris Snyder          |                        |                         |
| Intigral                                        | Mark Hutchinson       |                        |                         |
| Jiangyin Mingyang Glass Production              | Mr. Guo               |                        |                         |
| Jiaxing Joinbath Corporation                    | Mr. Chuanping Zhang   |                        |                         |
| Jin Yao Chang Tempered Glass Co., Ltd           | Steven Shang          |                        |                         |
| JM Glass                                        | Mayreni Morales       | Jose Morales           |                         |
| JYC Glass Co. Ltd.                              | Li Xiang Sheng        |                        |                         |
| Kohler Company                                  | Matt Wright           | Doug Glisson           | Buddy Thompson          |
| Lamiver Inc.                                    | Edgar Cormier         | Chantel Theriault      |                         |
| Louisville Plate Glass                          | Bill Stone            |                        |                         |
| M/M Tempering Inc.                              | Joseph L. Stevens     |                        |                         |
| Maryland Glass & Mirror                         | Matthew Dalbke        |                        |                         |
| McGrory Glass                                   | Gary McGrory          |                        |                         |
| Mega Tempering                                  | Ioannis Mariollis     |                        |                         |

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| <b>Licensee</b>                                     | <b>Primary Member</b> | <b>First Alternate</b> | <b>Second Alternate</b> |
|-----------------------------------------------------|-----------------------|------------------------|-------------------------|
| Mercer Glass Fab LLC                                | Thomas Wenczel        |                        |                         |
| Milgard Tempering                                   | Oscar Alacon          | Eric Yarbrough         |                         |
| Nashville Tempered Glass Corp.                      | Dan Haney             | Richard Paschel        |                         |
| New Angle Beveling                                  | Marc Martell          |                        |                         |
| Northwest Glass, Inc.                               | Bill Pollack          |                        |                         |
| NY Tempering LLC                                    | Haidong Weng          |                        |                         |
| Oldcastle BuildingEnvelope®                         | Rick Wright           | Robert Williams        |                         |
| Paragon Tempered Glass                              | T. Copsey             |                        |                         |
| Patio Enclosures                                    | Jack Garforth         | Craig Cox              |                         |
| Pennsylvania Insulating Glass                       | Tim Wilkins           |                        |                         |
| Perficom S.A. DE C.V.                               | Enrique Presa         |                        |                         |
| PFG Glass Industries                                | Steve Nielsen         |                        |                         |
| PGT Industries                                      | Rod Hershberger       |                        |                         |
| Phoenicia Flat Glass Industries                     | Mario Resch           |                        |                         |
| 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           |                        |                         |
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| Qinhuangdao Jingxin Glass Co., Ltd.                 | Dongsheng Yan         |                        |                         |
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| Qinhuangdao Mingjingyuan Safety Technology          | Gavin Pan             |                        |                         |
| Qinhuangdao Qicaishi                                | Qifei Chen            |                        |                         |
| QinHuangDao Tianrui Tempered Technology Glass       | Zhu YanJun            | Cheng Yi Bin           |                         |
| Quaker Window Products, Inc.                        | Curtis Weavers        |                        |                         |
| Quality Glass & Mirror, Inc.                        | Tom Markowski         |                        |                         |
| Ready Glass & Mirror, Inc.                          | Silverio Perez        |                        |                         |
| Reem Emirates Aluminum & Glass                      | Hamed Hussein         |                        |                         |
| RF Supply, Inc.                                     | Mike Hoelle           |                        |                         |
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| SAGE Electrochromics Inc.                           | Helen Sanders         |                        |                         |
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| SCHOTT Gemtron - Sweetwater                         | Bill Long             | Jack Francis           |                         |
| SCHOTT Gemtron (Canada) Corporation                 | Bill Bartlett         |                        |                         |
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| SIGCO, Inc.                                         | David A. McElhinny    |                        |                         |
| Simonton Windows                                    | Kevin Baker           | Chuck Andersen         |                         |
| Solar Seal Company-CT                               | Frederic P. Shaw      | Eric Shaw              | Brian Shaw              |
| Solar Seal Company-MA                               | Bill Seamon           |                        |                         |
| Specialty Glass                                     | David Bazzano         |                        |                         |
| Swift Glass Co., Inc.                               | Daniel J. Burke       | Kathleen B. Schweizer  | Charles Burke           |
| Syracuse Glass Co., Inc.                            | John Dwyer            |                        |                         |
| Tacoma Glass Mfg. Inc.                              | Tim Conroy            |                        |                         |
| Tai Shan City Da Heng Art Glass Ltd.                | Liu Woxian            |                        |                         |
| Tai Sheng (Dong Guan)Glass Co.,Ltd                  | Zhibing Liu           |                        |                         |
| Taiwan Glass USA Sales Corp.                        | Peter Chen            |                        |                         |



**SGCC Certification Committee**

| <b>Licensee</b>                                                                      | <b>Primary Member</b>   | <b>First Alternate</b> | <b>Second Alternate</b> |
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| Tecnoglass S.A.                                                                      | Christian Daes          |                        |                         |
| Tempco Glass                                                                         | Michelle Pascal         |                        |                         |
| TG Changjiang Glass Co., Ltd                                                         | Richard Chubb           |                        |                         |
| The Original Frameless Shower Door                                                   | John Serino             |                        |                         |
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| Thermo BSL                                                                           | Pierre-Luc Bellavance   |                        | Guy Poirier             |
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| Tianjin CSG Energy Conservation Glass Co., LTD                                       | Zaida Liu               |                        |                         |
| TianJin Dong Sung Home Building Materials Co. Ltd.                                   | Sang Kuy Lee            |                        |                         |
| Tianjin Northglass Industrial Technical Co., Ltd.                                    | Zhang Xue               | Anna Wu                |                         |
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| Triview Glass Industries                                                             | Alex Kastaniuk          |                        |                         |
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| Tweddell's Inc.                                                                      | Corey Myer              | Ed Blair               |                         |
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| Upstate Glass Tempering Inc.                                                         | David Chavoly           |                        |                         |
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| 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        |                         |
| Vitemex                                                                              | Edgar Alonso de la Cruz |                        |                         |
| Vitra Vidrios Transformados SA de CV                                                 | Miguel Larach           |                        |                         |
| Viwinco, Inc.                                                                        | Michael Duncan          |                        |                         |
| W. A. Wilson Inc.                                                                    | Robert Hartong          |                        |                         |
| White Aluminium Enterprises L.L.C                                                    | Jabr Doshan             |                        |                         |
| Wholesale Glass Distributors, Inc.                                                   | Kevin Boudreaux         |                        |                         |
| WSD Glass, Inc.                                                                      | Gary Reece              |                        |                         |
| Wuhan Aozheng Science and Technology Co., Ltd.                                       | Daisy Wang              |                        |                         |
| Wujiang Golden Glass Technologies, Ltd.                                              | WuCong Zhen             |                        |                         |
| Xinyi Group (Glass) Co. Ltd.                                                         | Janette Huang           |                        |                         |
| Yao Xiang Glass Product Co. Ltd.                                                     | Mai Yao Dong            |                        |                         |
| Yong Feng Tai Foshan City Glas Co., LTD.                                             | Aijun Zhong             |                        |                         |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.                                         | Xuxiang Dong            |                        |                         |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd                                | Steven Shang            |                        |                         |
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| Public Interest                                                                      | Elaine Rodman           |                        |                         |
| Public Interest                                                                      | June Wilcott            |                        |                         |
| Public Interest                                                                      | Peter Weismantle        |                        |                         |
| Public Interest                                                                      | Norman Nitschke         |                        |                         |
| Glasstech, Inc                                                                       | Patrick Loughran        |                        |                         |

January 1, 2015

Revised 10/1/2014

**~PROGRAM CONCEPT~**

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

The purpose of SGCC is:

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

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

American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test: ANSI Z97.1-2009.

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 visits to the manufacturing plant or randomly from the market place to be tested to the applicable specification(s). Consequent to a test result

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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 visits to the manufacturing plant or from the market place.

## **COMPLIANCE SAFEGUARDS**

### **HOW IS COMPLIANCE ASSURED (Revised 10/2/2014)**

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

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

## **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.



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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)
- b) The laboratory shall verify that the label complies with SGCC® labeling requirements. (revised 10/15/08)

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- 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 (Revised 10/2/2014)

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

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

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

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

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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 (Deleted 10/2/2014)

G.16

The nominal thickness designations in SGCC® authorized permanent labels for safety glazing materials may be shown in metric units. The thickness will be expressed in millimeters, limited to one decimal place, and will have the suffix "mm." (Revised 4/19/04)

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 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. (See table of Classified Tempered Glass Patterns in this directory).

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

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

### **TP. 2**

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

### **TP.3**

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

### **TP.4**

(Deleted 10/5/04)

### **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 "® 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 criteria in 16 CFR 1201.4(a)(1), four specimens shall be tested, or as noted in guideline G.27. (Revised 10/10/12)



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

L .6

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

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

Laminated glass shall be certified by its base glass heat treating (A= annealed, HS= heat strengthened, T= tempered). When a laminated annealed glass (A) is tested and certified, other laminated glasses having the same nominal thickness or thicknesses of heat strengthened (HS) or tempered glass (T) and the same or greater thickness of interlayer of the same generic category will be considered to be included in the certification. Testing of heat strengthened (HS) will only certify heat strengthened (HS) and tempered (T). Testing of tempered (T) will only certify tempered (T). (Revised 9/17/13)

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)

## SGCC LIST OF ACCEPTED INTERLAYERS – REVISED 1/13/15

| Generic Code | Description                    | Generic Code                                            | Description                    | <i>In order for a laminated glass product to be considered SGCC certified, the interlayer must be on this list</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>All weathering data is tested to ANSI Z97.1-2009</i> |                                |                                                                                                                    |

| Generic Code | Supplier                                    | Interlayer Brand                                 | Interlayer Formulations                | Weathering Data                                      |
|--------------|---------------------------------------------|--------------------------------------------------|----------------------------------------|------------------------------------------------------|
| (b)          | Eastman Chemical Company (formerly Solutia) | Saflex IIIG/Vanceva                              | Series A, C, D, F, H, M, N, P, R, S, W | Solutia Report 8/11                                  |
| (b)          | Eastman Chemical Company (formerly Solutia) | Saflex Specialty                                 | Saflex Q, AG, DB/DS                    | Solutia Report 8/11                                  |
| (b)          | Eastman Chemical Company (formerly Solutia) | Saflex Composite                                 | Saflex V, K series                     | Solutia Report 8/11                                  |
| (b)          | Kuraray (formerly DuPont)                   | SentryGlas Expressions                           |                                        | DuPont Report 3/11                                   |
| (b)          | Kuraray (formerly DuPont)                   | Butacite                                         | 50-56, 551-553                         | DuPont Report 3/11                                   |
| (b)          | Kuraray                                     | Trosifol                                         | BG, AF, SC, VG, XT90, Solar R40, HR100 | Kuraray Report 5/23/12                               |
| (b)          | Chang Chun                                  | Winlite                                          | (.015)                                 | Guardian Report ALR 13-266                           |
| (b)          | Sekisui S-Lec America LLC                   | Sekisui S-LEC Film & Sekisui S-LEC Acoustic Film | (.030)                                 | ATI Report C0265.02-122-37 & C0265.01-122-37 6/12/12 |
| (ip)         | Kuraray (formerly DuPont)                   | SentryGlas                                       | (.035)                                 | DuPont Report 3/11                                   |
| (lu)         | Bestroom Co. Ltd.                           | UVLAM                                            | (.040)                                 | Bestroom Laboratory Report 1/17/11                   |
| (lu)         | ALLNEX                                      | UVEKOL                                           | (.040)                                 | Allnex Statement 3/14/14                             |
| (ev)         | Hornos Industriales Pujol, S.A.             | EVALAM                                           | (.030)                                 | INDOOR USE ONLY – NO WEATHERING DATA ON FILE         |
| (el)(p)      | Polytronix, Inc.                            | Polyvision Film                                  | (.075)                                 | INDOOR USE ONLY – NO WEATHERING DATA ON FILE         |

## **WIRED GLASS (ANSI ONLY)**

### **W.1**

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

- a) The glass thickness of the candidate glass is nominally equal to the thickness of the glass that is certified.
- b) The wire diameter of the candidate glass is at least as great as the wire diameter in the glass that is certified.
- c) The spacing of the wires in the candidate glass is no greater than the spacing of the wires in the glass that is certified.
- d) 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.

January 1, 2015  
**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

**~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.

## Classified Tempered Glass Patterns Key:

S (Shallow)

M (Medium)

D (Deep)

X (Pattern available but pattern depth not yet classified.)

\*Indicates EN Standard Thickness Tolerance

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



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

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|-----------------|--------------------------------------|-----------------|---------------------------------------|-----------------|--------------------------------------|
| 12              | Virginia Glass Products Corp.        | 1332            | SCHOTT Gemtron - Sweetwater           | 1755            | All Team Glass & Mirror, Ltd.        |
| 14              | Virginia Glass Products Corp.        | 1334            | SCHOTT Gemtron - Sweetwater           | 1756            | All Team Glass & Mirror, Ltd.        |
| 89              | AGC Flat Glass North America         | 1403            | Viracon Inc.                          | 1757            | All Team Glass & Mirror, Ltd.        |
| 90              | AGC Flat Glass North America         | 1404            | Viracon Inc.                          | 1758            | All Team Glass & Mirror, Ltd.        |
| 93              | Virginia Glass Products Corp.        | 1416            | Nashville Tempered Glass Corp.        | 1784            | Trulite Glass and Aluminum Solutions |
| 94              | Virginia Glass Products Corp.        | 1417            | Nashville Tempered Glass Corp.        | 1785            | Trulite Glass and Aluminum Solutions |
| 95              | Virginia Glass Products Corp.        | 1422            | SCHOTT Gemtron - Sweetwater           | 1786            | Trulite Glass and Aluminum Solutions |
| 131             | Guardian Industries Corp.            | 1424            | SCHOTT Gemtron - Sweetwater           | 1787            | Trulite Glass and Aluminum Solutions |
| 220             | AGC Flat Glass North America         | 1467            | Nashville Tempered Glass Corp.        | 1788            | Trulite Glass and Aluminum Solutions |
| 249             | PPG Inds. Inc.                       | 1477            | SCHOTT Gemtron - Sweetwater           | 1790            | Trulite Glass and Aluminum Solutions |
| 250             | PPG Inds. Inc.                       | 1508            | Viracon Inc.                          | 1803            | Guardian Industries Corp.            |
| 300             | Guardian Fabrication Inc.            | 1509            | Viracon Inc.                          | 1804            | Cardinal TG                          |
| 382             | PPG Inds. Inc.                       | 1518            | Trulite Glass and Aluminum Solutions  | 1805            | Cardinal TG                          |
| 471             | Guardian Fabrication Inc.            | 1520            | Trulite Glass and Aluminum Solutions  | 1806            | Cardinal TG                          |
| 514             | Oldcastle BuildingEnvelope®          | 1521            | Trulite Glass and Aluminum Solutions  | 1807            | Cardinal TG                          |
| 515             | Oldcastle BuildingEnvelope®          | 1522            | Trulite Glass and Aluminum Solutions  | 1826            | Guardian Industries Corp.            |
| 516             | Oldcastle BuildingEnvelope®          | 1523            | Trulite Glass and Aluminum Solutions  | 1827            | Cardinal IG                          |
| 520             | Anthony International                | 1546            | Oldcastle BuildingEnvelope®           | 1828            | Cardinal IG                          |
| 587             | AGC Flat Glass North America         | 1547            | Oldcastle BuildingEnvelope®           | 1829            | Cardinal IG                          |
| 598             | AGC Flat Glass North America         | 1548            | Oldcastle BuildingEnvelope®           | 1830            | Cardinal IG                          |
| 630             | Oldcastle BuildingEnvelope®          | 1549            | Oldcastle BuildingEnvelope®           | 1831            | Cardinal IG                          |
| 631             | Guardian Industries Corp.            | 1550            | Oldcastle BuildingEnvelope®           | 1832            | Cardinal IG                          |
| 662             | Guardian Fabrication Inc.            | 1551            | Oldcastle BuildingEnvelope®           | 1833            | Cardinal IG                          |
| 675             | PPG Inds. Inc.                       | 1555            | Swift Glass Co., Inc.                 | 1834            | Cardinal IG                          |
| 862             | Trulite Glass and Aluminum Solutions | 1556            | Swift Glass Co., Inc.                 | 1841            | Cardinal IG                          |
| 863             | Trulite Glass and Aluminum Solutions | 1557            | Swift Glass Co., Inc.                 | 1842            | Cardinal IG                          |
| 865             | Trulite Glass and Aluminum Solutions | 1558            | Swift Glass Co., Inc.                 | 1843            | Cardinal IG                          |
| 866             | Trulite Glass and Aluminum Solutions | 1559            | Swift Glass Co., Inc.                 | 1844            | Cardinal IG                          |
| 933             | Guardian Industries Corp.            | 1575            | Custom Glass Solutions Millbury Corp. | 1845            | Cardinal IG                          |
| 934             | Guardian Industries Corp.            |                 |                                       | 1846            | Cardinal IG                          |
| 935             | Oldcastle BuildingEnvelope®          | 1576            | Custom Glass Solutions Millbury Corp. | 1864            | Saint-Gobain SOVIS                   |
| 955             | AGC Flat Glass North America         | 1577            | Custom Glass Solutions Millbury Corp. | 1865            | Guardian Industries Corp.            |
| 968             | Guardian Industries Corp.            |                 |                                       | 1871            | Solar Seal Company                   |
| 969             | Guardian Industries Corp.            | 1603            | PPG Inds. Inc.                        | 1882            | Guardian Industries Corp.            |
| 970             | Guardian Industries Corp.            | 1604            | PPG Inds. Inc.                        | 1889            | Commercial Insulating Glass Co.      |
| 971             | Guardian Industries Corp.            | 1605            | PPG Inds. Inc.                        | 1890            | Commercial Insulating Glass Co.      |
| 999             | Anthony International                | 1606            | PPG Inds. Inc.                        | 1891            | Commercial Insulating Glass Co.      |
| 1000            | Anthony International                | 1607            | Guardian Fabrication Inc.             | 1901            | EFCO Corporation                     |
| 1035            | Solar Seal Company                   | 1608            | Oldcastle BuildingEnvelope®           | 1902            | EFCO Corporation                     |
| 1036            | Solar Seal Company                   | 1609            | Oldcastle BuildingEnvelope®           | 1910            | Coral Industries Glass Division      |
| 1037            | Solar Seal Company                   | 1630            | Guardian Industries Corp.             | 1911            | Coral Industries Glass Division      |
| 1110            | PPG Inds., Inc.                      | 1631            | Guardian Industries Corp.             | 1921            | Cardinal CG                          |
| 1111            | PPG Inds., Inc.                      | 1632            | Guardian Industries Corp.             | 1922            | Cardinal CG                          |
| 1112            | PPG Inds., Inc.                      | 1633            | Guardian Industries Corp.             | 1923            | Cardinal CG                          |
| 1113            | PPG Inds., Inc.                      | 1634            | Guardian Industries Corp.             | 1924            | Cardinal CG                          |
| 1139            | AGC Flat Glass North America         | 1635            | Guardian Industries Corp.             | 1939            | Solar Seal Company                   |
| 1201            | SCHOTT Gemtron - Sweetwater          | 1637            | Viracon Inc.                          | 1957            | Trulite Glass and Aluminum Solutions |
| 1216            | Guardian Fabrication Inc.            | 1677            | Contour Industries, Inc.              | 1959            | Trulite Glass and Aluminum Solutions |
| 1235            | Guardian Fabrication Inc.            | 1678            | Contour Industries, Inc.              | 1964            | Coral Industries Glass Division      |
| 1248            | Guardian Industries Corp.            | 1680            | Contour Industries, Inc.              | 1979            | Kohler Company                       |
| 1249            | Guardian Industries Corp.            | 1683            | Guardian Industries Corp.             | 1980            | Kohler Company                       |
| 1250            | Guardian Industries Corp.            | 1702            | AGC Flat Glass North America          | 1981            | Kohler Company                       |
| 1251            | Guardian Industries Corp.            | 1703            | AGC Flat Glass North America          | 1982            | Kohler Company                       |
| 1253            | Guardian Industries Corp.            | 1704            | AGC Flat Glass North America          | 1983            | Kohler Company                       |
| 1301            | Guardian Industries Corp.            | 1705            | AGC Flat Glass North America          | 1984            | Kohler Company                       |
| 1303            | Guardian Industries Corp.            | 1754            | All Team Glass & Mirror, Ltd.         | 1985            | Cardinal CG                          |
| 1304            | Guardian Industries Corp.            |                 |                                       | 1986            | Cardinal CG                          |

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|-----------------|--------------------------------------|-----------------|--------------------------------------|-----------------|-------------------------------------------|
| 1987            | Cardinal CG                          | 2178            | Cardinal IG                          | 2321            | Cardinal IG                               |
| 1988            | Cardinal CG                          | 2179            | Cardinal IG                          | 2322            | Cardinal IG                               |
| 1991            | Berkowitz, J.E.                      | 2182            | Virginia Glass Products Corp.        | 2323            | Cardinal IG                               |
| 1992            | Saint-Gobain SOVIS                   | 2185            | Glaz-Tech Industries                 | 2328            | Cardinal IG                               |
| 1993            | Tecnoglass S.A.                      | 2186            | Glaz-Tech Industries                 | 2329            | Cardinal IG                               |
| 1994            | Tecnoglass S.A.                      | 2187            | Glaz-Tech Industries                 | 2330            | Cardinal IG                               |
| 1995            | Tecnoglass S.A.                      | 2189            | Glaz-Tech Industries                 | 2331            | Cardinal IG                               |
| 1996            | Oldcastle BuildingEnvelope®          | 2190            | Glaz-Tech Industries                 | 2332            | Saint Gobain Mexico, S.A. de C.V.         |
| 1997            | Oldcastle BuildingEnvelope®          | 2193            | Glaz-Tech Industries                 | 2352            | Anthony International                     |
| 1998            | Consolidated Glass Corp.             | 2197            | Trulite Glass and Aluminum Solutions | 2353            | Anthony International                     |
| 1999            | Consolidated Glass Corp.             | 2198            | Trulite Glass and Aluminum Solutions | 2354            | Consolidated Glass Corp.                  |
| 2002            | Consolidated Glass Corp.             | 2199            | Trulite Glass and Aluminum Solutions | 2355            | Consolidated Glass Corp.                  |
| 2003            | Consolidated Glass Corp.             | 2200            | Trulite Glass and Aluminum Solutions | 2357            | Cardinal CG                               |
| 2004            | Consolidated Glass Corp.             | 2203            | Cardinal IG                          | 2358            | Cardinal CG                               |
| 2005            | Consolidated Glass Corp.             | 2204            | Cardinal IG                          | 2359            | Cardinal CG                               |
| 2007            | Cardinal CG                          | 2205            | Cardinal IG                          | 2360            | Cardinal CG                               |
| 2008            | Cardinal CG                          | 2210            | Oldcastle BuildingEnvelope®          | 2365            | Tecnoglass S.A.                           |
| 2009            | Cardinal CG                          | 2211            | Oldcastle BuildingEnvelope®          | 2381            | Prelco Inc.                               |
| 2010            | Cardinal CG                          | 2212            | Oldcastle BuildingEnvelope®          | 2382            | Guardian Industries Corp.                 |
| 2011            | Cardinal CG                          | 2213            | Oldcastle BuildingEnvelope®          | 2389            | PGT Industries                            |
| 2012            | Cardinal CG                          | 2214            | Oldcastle BuildingEnvelope®          | 2390            | PGT Industries                            |
| 2013            | Cardinal CG                          | 2215            | Oldcastle BuildingEnvelope®          | 2391            | PGT Industries                            |
| 2015            | Prelco Inc.                          | 2216            | Oldcastle BuildingEnvelope®          | 2397            | Cardinal IG                               |
| 2020            | Guardian Industries Corp.            | 2226            | GGI Glass Distributors Corp.         | 2399            | Cardinal IG                               |
| 2021            | Guardian Industries Corp.            | 2227            | GGI Glass Distributors Corp.         | 2417            | Nashville Tempered Glass Corp.            |
| 2022            | Guardian Industries Corp.            | 2228            | GGI Glass Distributors Corp.         | 2420            | Nashville Tempered Glass Corp.            |
| 2023            | Guardian Industries Corp.            | 2231            | Cardinal IG                          | 2423            | Vetzeria Valentini S.R.L.                 |
| 2024            | Guardian Industries Corp.            | 2232            | Cardinal IG                          | 2426            | PGT Industries                            |
| 2032            | Cameron Glass, Inc.                  | 2233            | Cardinal IG                          | 2432            | Changshu Zhongxin Bldg. Mat. Co.          |
| 2033            | Cameron Glass, Inc.                  | 2234            | Cardinal IG                          | 2434            | Kohler Company                            |
| 2034            | Prelco Inc.                          | 2235            | Cardinal IG                          | 2444            | Goldray Industries Ltd.                   |
| 2035            | Prelco Inc.                          | 2248            | Saint-Gobain SOVIS                   | 2445            | Goldray Industries Ltd.                   |
| 2048            | Prelco Inc.                          | 2259            | Guardian Industries Corp.            | 2446            | Goldray Industries Ltd.                   |
| 2050            | Intigral                             | 2260            | Guardian Industries Corp.            | 2447            | Goldray Industries Ltd.                   |
| 2051            | Intigral                             | 2261            | Guardian Industries Corp.            | 2448            | Goldray Industries Ltd.                   |
| 2052            | Intigral                             | 2262            | Guardian Industries Corp.            | 2449            | Goldray Industries Ltd.                   |
| 2055            | Intigral                             | 2267            | Saint Gobain Mexico, S.A. de C.V.    | 2451            | Guardian Fabrication Inc.                 |
| 2056            | Patio Enclosures                     | 2269            | Saint Gobain Mexico, S.A. de C.V.    | 2453            | Anthony International                     |
| 2057            | Patio Enclosures                     | 2282            | GGI Glass Distributors Corp.         | 2455            | Cameron Glass, Inc.                       |
| 2062            | Oldcastle BuildingEnvelope®          | 2285            | Cardinal IG                          | 2458            | Guardian Industries Corp.                 |
| 2063            | Oldcastle BuildingEnvelope®          | 2286            | Cardinal IG                          | 2459            | Guardian Industries Corp.                 |
| 2067            | Cardinal CG                          | 2287            | Tecnoglass S.A.                      | 2460            | Guardian Industries Corp.                 |
| 2068            | Cardinal CG                          | 2289            | Anthony International                | 2462            | Cardinal LG                               |
| 2069            | Cardinal CG                          | 2293            | Cardinal CG                          | 2467            | United Plate Glass Co., Inc.              |
| 2070            | Cardinal CG                          | 2294            | Cardinal CG                          | 2468            | United Plate Glass Co., Inc.              |
| 2071            | Cardinal CG                          | 2295            | Cardinal CG                          | 2469            | United Plate Glass Co., Inc.              |
| 2074            | Oldcastle BuildingEnvelope®          | 2296            | Cardinal CG                          | 2470            | United Plate Glass Co., Inc.              |
| 2133            | Tecnoglass S.A.                      | 2305            | Anthony International                | 2471            | United Plate Glass Co., Inc.              |
| 2134            | Tecnoglass S.A.                      | 2306            | Anthony International                | 2481            | SAAND Toronto                             |
| 2135            | Tecnoglass S.A.                      | 2307            | Anthony International                | 2482            | SAAND Toronto                             |
| 2143            | EFCO Corporation                     | 2310            | Viracon Inc.                         | 2484            | SAAND Toronto                             |
| 2144            | Coral Industries Glass Division      | 2311            | Viracon Inc.                         | 2488            | Kawneer - (Cranberry) a division of Alcoa |
| 2145            | Coral Industries Glass Division      | 2314            | Viracon Inc.                         |                 |                                           |
| 2146            | Cardinal CG                          | 2317            | Cardinal IG                          | 2489            | Kawneer - (Cranberry) a division of Alcoa |
| 2160            | Trulite Glass and Aluminum Solutions | 2318            | Cardinal IG                          |                 |                                           |
| 2176            | Cardinal IG                          | 2319            | Cardinal IG                          | 2490            | Kawneer - (Cranberry) a division of Alcoa |
| 2177            | Cardinal IG                          | 2320            | Cardinal IG                          |                 |                                           |

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|-----------------|-------------------------------------------|-----------------|-------------------------------------------|-----------------|----------------------------------------------------|
| 2494            | Nashville Tempered Glass Corp.            | 2693            | Nashville Tempered Glass LLC              | 2889            | TianJin Dong Sung Home Building Materials Co. Ltd. |
| 2497            | Nashville Tempered Glass Corp.            | 2694            | Nashville Tempered Glass LLC              |                 |                                                    |
| 2498            | Multiver                                  | 2698            | Engineered Glass Products, L.L.C.         | 2890            | TianJin Dong Sung Home Building Materials Co. Ltd. |
| 2499            | Multiver                                  | 2699            | Cardinal CG                               | 2894            | Tecnoglass S.A.                                    |
| 2501            | Cameron Glass, Inc.                       | 2700            | Cardinal CG                               | 2898            | Vetzeria Valentini S.R.L.                          |
| 2507            | AGC Flat Glass North America              | 2701            | Cardinal CG                               | 2904            | Changshu Hard Glass Co., Ltd.                      |
| 2509            | AGC Flat Glass North America              | 2702            | Cardinal CG                               | 2909            | Cardinal FG                                        |
| 2510            | AGC Flat Glass North America              | 2705            | Cardinal CG                               | 2910            | Cardinal FG                                        |
| 2519            | Guardian Industries Corp.                 | 2713            | Prelco Inc.                               | 2911            | Cardinal FG                                        |
| 2522            | Trulite Glass and Aluminum Solutions      | 2715            | Kawneer - (Cranberry) a division of Alcoa | 2912            | Cardinal FG                                        |
| 2543            | Oldcastle BuildingEnvelope®               |                 |                                           | 2918            | Kohler Company                                     |
| 2544            | Oldcastle BuildingEnvelope®               | 2716            | Kawneer - (Cranberry) a division of Alcoa | 2919            | Cardinal IG                                        |
| 2545            | Guardian Industries Corp.                 | 2719            | Kawneer - (Cranberry) a division of Alcoa | 2920            | Cardinal IG                                        |
| 2547            | Techni-Glass, Inc.                        |                 |                                           | 2921            | Cardinal IG                                        |
| 2548            | Techni-Glass, Inc.                        | 2728            | Glass Dynamics, Inc.                      | 2922            | Cardinal IG                                        |
| 2549            | Techni-Glass, Inc.                        | 2729            | Glass Dynamics, Inc.                      | 2923            | Cardinal IG                                        |
| 2550            | Techni-Glass, Inc.                        | 2730            | Glass Dynamics, Inc.                      | 2924            | Cardinal IG                                        |
| 2569            | Bendheim Wall Systems                     | 2731            | Glass Dynamics, Inc.                      | 2928            | GGI Glass Distributors Corp.                       |
| 2570            | Bendheim Wall Systems                     | 2732            | Glass Dynamics, Inc.                      | 2944            | Coral Industries Glass Division                    |
| 2572            | Intex Glass (Xiamen) Co., Ltd.            | 2733            | Glass Dynamics, Inc.                      | 2945            | Coral Industries Glass Division                    |
| 2573            | Intex Glass (Xiamen) Co., Ltd.            | 2734            | Glass Dynamics, Inc.                      | 2954            | Cardinal CG                                        |
| 2574            | Intex Glass (Xiamen) Co., Ltd.            | 2743            | Saint Gobain Mexico, S.A. de C.V.         | 2955            | Cardinal CG                                        |
| 2575            | Intex Glass (Xiamen) Co., Ltd.            | 2748            | Kawneer - (Cranberry) a division of Alcoa | 2956            | Cardinal CG                                        |
| 2576            | Intex Glass (Xiamen) Co., Ltd.            |                 |                                           | 2957            | Syracuse Glass Co., Inc.                           |
| 2577            | Intex Glass (Xiamen) Co., Ltd.            | 2751            | Prelco Inc.                               | 2958            | Syracuse Glass Co., Inc.                           |
| 2578            | Amsco Windows                             | 2768            | Trulite Glass and Aluminum Solutions      | 2959            | Trulite Glass and Aluminum Solutions               |
| 2580            | Amsco Windows                             | 2769            | Saint-Gobain SOVIS                        | 2960            | Trulite Glass and Aluminum Solutions               |
| 2581            | Amsco Windows                             | 2770            | Saint-Gobain SOVIS                        | 2961            | SIGCO, Inc.                                        |
| 2582            | Amsco Windows                             | 2779            | Shanghai SYP Building Glass               | 2962            | SIGCO, Inc.                                        |
| 2584            | Amsco Windows                             | 2780            | Shanghai SYP Building Glass               | 2963            | SIGCO, Inc.                                        |
| 2589            | Engineered Glass Products, L.L.C.         | 2787            | Trulite Glass and Aluminum Solutions      | 2964            | SIGCO, Inc.                                        |
| 2590            | Engineered Glass Products, L.L.C.         | 2788            | Trulite Glass and Aluminum Solutions      | 2965            | SIGCO, Inc.                                        |
| 2592            | Trulite Glass and Aluminum Solutions      | 2789            | Trulite Glass and Aluminum Solutions      | 2966            | SIGCO, Inc.                                        |
| 2603            | Guardian Fabrication Inc.                 | 2790            | All Team Glass & Mirror, Ltd.             | 2967            | SIGCO, Inc.                                        |
| 2629            | Multiver                                  | 2831            | Cardinal IG                               | 2968            | Quaker Window Products, Inc.                       |
| 2644            | Coral Industries Glass Division           | 2833            | Cardinal IG                               | 2969            | Quaker Window Products, Inc.                       |
| 2646            | Berkowitz, J.E.                           | 2834            | Cardinal IG                               | 2970            | Quaker Window Products, Inc.                       |
| 2647            | Berkowitz, J.E.                           | 2840            | Trulite Glass and Aluminum Solutions      | 2975            | Techni-Glass, Inc.                                 |
| 2649            | Guardian Industries Corp.                 | 2842            | Milgard Tempering                         | 2976            | Cardinal LG                                        |
| 2654            | Syracuse Glass Co., Inc.                  | 2850            | Eckelt Glas GmbH                          | 2980            | AGC Flat Glass North America                       |
| 2656            | Syracuse Glass Co., Inc.                  | 2851            | Eckelt Glas GmbH                          | 2981            | Quality Glass & Mirror, Inc.                       |
| 2657            | Syracuse Glass Co., Inc.                  | 2852            | Eckelt Glas GmbH                          | 2982            | Quality Glass & Mirror, Inc.                       |
| 2661            | Downey Glass Industries, LLC              | 2853            | Eckelt Glas GmbH                          | 2983            | Quality Glass & Mirror, Inc.                       |
| 2662            | Downey Glass Industries, LLC              | 2854            | Eckelt Glas GmbH                          | 2984            | Quality Glass & Mirror, Inc.                       |
| 2663            | Downey Glass Industries, LLC              | 2855            | Eckelt Glas GmbH                          | 2985            | Quaker Window Products, Inc.                       |
| 2664            | Downey Glass Industries, LLC              | 2857            | Cardinal IG                               | 2986            | Quaker Window Products, Inc.                       |
| 2665            | Downey Glass Industries, LLC              | 2858            | Cardinal IG                               | 2987            | Changshu Hard Glass Co., Ltd.                      |
| 2666            | AGC Flat Glass North America              | 2859            | Cardinal IG                               | 2988            | Changshu Hard Glass Co., Ltd.                      |
| 2678            | Kawneer - (Cranberry) a division of Alcoa | 2878            | Cardinal CG                               | 2999            | Trulite Glass and Aluminum Solutions               |
| 2684            | Paragon Tempered Glass                    | 2879            | Cardinal CG                               | 3001            | Solar Seal Company                                 |
| 2685            | Paragon Tempered Glass                    | 2880            | Cardinal CG                               | 3002            | Guardian Industries Corp.                          |
| 2686            | Paragon Tempered Glass                    | 2881            | Cardinal CG                               | 3003            | Guardian Industries Corp.                          |
| 2687            | Paragon Tempered Glass                    | 2884            | Oldcastle BuildingEnvelope®               | 3015            | Patio Enclosures                                   |
| 2688            | Paragon Tempered Glass                    | 2885            | Oldcastle BuildingEnvelope®               | 3017            | Diubak Corporation                                 |
| 2691            | Nashville Tempered Glass LLC              | 2887            | Simonton Windows                          | 3018            | Diubak Corporation                                 |
| 2692            | Nashville Tempered Glass LLC              | 2888            | Simonton Windows                          | 3019            | Diubak Corporation                                 |

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| <b>SGCC No.</b> |                                                    | <b>SGCC No.</b> |                             | <b>SGCC No.</b> |                             |
|-----------------|----------------------------------------------------|-----------------|-----------------------------|-----------------|-----------------------------|
| 3023            | SAAND Toronto                                      | 3116            | Oldcastle BuildingEnvelope® | 3180            | Oldcastle BuildingEnvelope® |
| 3024            | Guardian Fabrication Inc.                          | 3118            | Oldcastle BuildingEnvelope® | 3181            | Oldcastle BuildingEnvelope® |
| 3025            | Intex Glass (Xiamen) Co., Ltd.                     | 3119            | Oldcastle BuildingEnvelope® | 3182            | Oldcastle BuildingEnvelope® |
| 3027            | Anthony International                              | 3120            | Oldcastle BuildingEnvelope® | 3183            | Oldcastle BuildingEnvelope® |
| 3028            | SIGCO, Inc.                                        | 3121            | Oldcastle BuildingEnvelope® | 3184            | Oldcastle BuildingEnvelope® |
| 3039            | American Shower Door                               | 3122            | Oldcastle BuildingEnvelope® | 3185            | Oldcastle BuildingEnvelope® |
| 3040            | American Shower Door                               | 3124            | Oldcastle BuildingEnvelope® | 3186            | Oldcastle BuildingEnvelope® |
| 3041            | American Shower Door                               | 3125            | Oldcastle BuildingEnvelope® | 3187            | Oldcastle BuildingEnvelope® |
| 3042            | American Shower Door                               | 3127            | Oldcastle BuildingEnvelope® | 3188            | Oldcastle BuildingEnvelope® |
| 3043            | American Shower Door                               | 3128            | Oldcastle BuildingEnvelope® | 3189            | Oldcastle BuildingEnvelope® |
| 3053            | Xinyi Group (Glass) Co., Ltd.                      | 3129            | Oldcastle BuildingEnvelope® | 3190            | Oldcastle BuildingEnvelope® |
| 3054            | Xinyi Group (Glass) Co., Ltd.                      | 3130            | Oldcastle BuildingEnvelope® | 3191            | Oldcastle BuildingEnvelope® |
| 3055            | Xinyi Group (Glass) Co., Ltd.                      | 3131            | Oldcastle BuildingEnvelope® | 3192            | Oldcastle BuildingEnvelope® |
| 3056            | Xinyi Group (Glass) Co., Ltd.                      | 3132            | Oldcastle BuildingEnvelope® | 3193            | Oldcastle BuildingEnvelope® |
| 3060            | Techni-Glass, Inc.                                 | 3133            | Oldcastle BuildingEnvelope® | 3194            | Oldcastle BuildingEnvelope® |
| 3061            | Techni-Glass, Inc.                                 | 3134            | Oldcastle BuildingEnvelope® | 3195            | Oldcastle BuildingEnvelope® |
| 3062            | Techni-Glass, Inc.                                 | 3135            | Oldcastle BuildingEnvelope® | 3196            | Oldcastle BuildingEnvelope® |
| 3067            | SCHOTT Gemtron (Canada) Corporation                | 3136            | Oldcastle BuildingEnvelope® | 3197            | Oldcastle BuildingEnvelope® |
| 3068            | Cardinal IG                                        | 3137            | Oldcastle BuildingEnvelope® | 3199            | Oldcastle BuildingEnvelope® |
| 3069            | Cardinal IG                                        | 3138            | Oldcastle BuildingEnvelope® | 3200            | Oldcastle BuildingEnvelope® |
| 3070            | Cardinal IG                                        | 3139            | Oldcastle BuildingEnvelope® | 3201            | Oldcastle BuildingEnvelope® |
| 3071            | Cardinal IG                                        | 3140            | Oldcastle BuildingEnvelope® | 3203            | Oldcastle BuildingEnvelope® |
| 3072            | Cardinal IG                                        | 3141            | Oldcastle BuildingEnvelope® | 3219            | Oldcastle BuildingEnvelope® |
| 3073            | Cardinal IG                                        | 3142            | Oldcastle BuildingEnvelope® | 3220            | Oldcastle BuildingEnvelope® |
| 3074            | Viwinco, Inc.                                      | 3143            | Oldcastle BuildingEnvelope® | 3221            | Oldcastle BuildingEnvelope® |
| 3081            | Trulite Glass and Aluminum Solutions               | 3144            | Oldcastle BuildingEnvelope® | 3222            | Oldcastle BuildingEnvelope® |
| 3082            | Trulite Glass and Aluminum Solutions               | 3145            | Oldcastle BuildingEnvelope® | 3223            | Oldcastle BuildingEnvelope® |
| 3085            | Xinyi Group (Glass) Co., Ltd.                      | 3146            | Oldcastle BuildingEnvelope® | 3224            | Oldcastle BuildingEnvelope® |
| 3086            | Chicago Tempered Glass, Inc.                       | 3147            | Oldcastle BuildingEnvelope® | 3225            | Oldcastle BuildingEnvelope® |
| 3087            | Chicago Tempered Glass, Inc.                       | 3148            | Oldcastle BuildingEnvelope® | 3226            | Oldcastle BuildingEnvelope® |
| 3088            | Chicago Tempered Glass, Inc.                       | 3149            | Oldcastle BuildingEnvelope® | 3227            | Oldcastle BuildingEnvelope® |
| 3089            | Chicago Tempered Glass, Inc.                       | 3151            | Oldcastle BuildingEnvelope® | 3228            | Oldcastle BuildingEnvelope® |
| 3090            | Chicago Tempered Glass, Inc.                       | 3152            | Oldcastle BuildingEnvelope® | 3229            | Oldcastle BuildingEnvelope® |
| 3091            | Trulite Glass and Aluminum Solutions               | 3153            | Oldcastle BuildingEnvelope® | 3230            | Oldcastle BuildingEnvelope® |
| 3094            | TianJin Dong Sung Home Building Materials Co. Ltd. | 3154            | Oldcastle BuildingEnvelope® | 3233            | Oldcastle BuildingEnvelope® |
| 3095            | Oldcastle BuildingEnvelope®                        | 3155            | Oldcastle BuildingEnvelope® | 3234            | Oldcastle BuildingEnvelope® |
| 3096            | Oldcastle BuildingEnvelope®                        | 3156            | Oldcastle BuildingEnvelope® | 3235            | Oldcastle BuildingEnvelope® |
| 3097            | Oldcastle BuildingEnvelope®                        | 3157            | Oldcastle BuildingEnvelope® | 3236            | Oldcastle BuildingEnvelope® |
| 3098            | Oldcastle BuildingEnvelope®                        | 3158            | Oldcastle BuildingEnvelope® | 3237            | Oldcastle BuildingEnvelope® |
| 3099            | Oldcastle BuildingEnvelope®                        | 3159            | Oldcastle BuildingEnvelope® | 3238            | Oldcastle BuildingEnvelope® |
| 3100            | Oldcastle BuildingEnvelope®                        | 3160            | Oldcastle BuildingEnvelope® | 3239            | Oldcastle BuildingEnvelope® |
| 3101            | Oldcastle BuildingEnvelope®                        | 3161            | Oldcastle BuildingEnvelope® | 3240            | Oldcastle BuildingEnvelope® |
| 3102            | Oldcastle BuildingEnvelope®                        | 3163            | Oldcastle BuildingEnvelope® | 3242            | Oldcastle BuildingEnvelope® |
| 3103            | Oldcastle BuildingEnvelope®                        | 3164            | Oldcastle BuildingEnvelope® | 3243            | Oldcastle BuildingEnvelope® |
| 3104            | Oldcastle BuildingEnvelope®                        | 3165            | Oldcastle BuildingEnvelope® | 3244            | Oldcastle BuildingEnvelope® |
| 3105            | Oldcastle BuildingEnvelope®                        | 3166            | Oldcastle BuildingEnvelope® | 3245            | Oldcastle BuildingEnvelope® |
| 3106            | Oldcastle BuildingEnvelope®                        | 3167            | Oldcastle BuildingEnvelope® | 3249            | Anthony International       |
| 3107            | Oldcastle BuildingEnvelope®                        | 3168            | Oldcastle BuildingEnvelope® | 3250            | Oldcastle BuildingEnvelope® |
| 3108            | Oldcastle BuildingEnvelope®                        | 3169            | Oldcastle BuildingEnvelope® | 3251            | Oldcastle BuildingEnvelope® |
| 3109            | Oldcastle BuildingEnvelope®                        | 3170            | Oldcastle BuildingEnvelope® | 3252            | Oldcastle BuildingEnvelope® |
| 3110            | Oldcastle BuildingEnvelope®                        | 3171            | Oldcastle BuildingEnvelope® | 3253            | Oldcastle BuildingEnvelope® |
| 3111            | Oldcastle BuildingEnvelope®                        | 3172            | Oldcastle BuildingEnvelope® | 3255            | Oldcastle BuildingEnvelope® |
| 3112            | Oldcastle BuildingEnvelope®                        | 3173            | Oldcastle BuildingEnvelope® | 3256            | Oldcastle BuildingEnvelope® |
| 3113            | Oldcastle BuildingEnvelope®                        | 3176            | Oldcastle BuildingEnvelope® | 3257            | Oldcastle BuildingEnvelope® |
| 3115            | Cardinal IG                                        | 3177            | Oldcastle BuildingEnvelope® | 3258            | Oldcastle BuildingEnvelope® |
|                 |                                                    | 3178            | Oldcastle BuildingEnvelope® | 3259            | Oldcastle BuildingEnvelope® |
|                 |                                                    | 3179            | Oldcastle BuildingEnvelope® | 3262            | Oldcastle BuildingEnvelope® |

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| <b>SGCC No.</b> |                                      | <b>SGCC No.</b> |                                                    | <b>SGCC No.</b> |                                      |
|-----------------|--------------------------------------|-----------------|----------------------------------------------------|-----------------|--------------------------------------|
| 3263            | Oldcastle BuildingEnvelope®          | 3339            | Oldcastle BuildingEnvelope®                        | 3492            | Oldcastle BuildingEnvelope®          |
| 3264            | Oldcastle BuildingEnvelope®          | 3340            | Oldcastle BuildingEnvelope®                        | 3495            | Trulite Glass and Aluminum Solutions |
| 3265            | Oldcastle BuildingEnvelope®          | 3392            | Oldcastle BuildingEnvelope®                        | 3496            | Oldcastle BuildingEnvelope®          |
| 3266            | Oldcastle BuildingEnvelope®          | 3405            | Viwinco, Inc.                                      | 3497            | Oldcastle BuildingEnvelope®          |
| 3267            | Oldcastle BuildingEnvelope®          | 3406            | Viwinco, Inc.                                      | 3498            | Oldcastle BuildingEnvelope®          |
| 3268            | Oldcastle BuildingEnvelope®          | 3407            | Trulite Glass and Aluminum Solutions               | 3499            | Oldcastle BuildingEnvelope®          |
| 3269            | Oldcastle BuildingEnvelope®          | 3408            | Viwinco, Inc.                                      | 3500            | Oldcastle BuildingEnvelope®          |
| 3270            | Oldcastle BuildingEnvelope®          | 3418            | Industrial Tempering Glass                         | 3501            | Oldcastle BuildingEnvelope®          |
| 3271            | Oldcastle BuildingEnvelope®          | 3419            | Industrial Tempering Glass                         | 3502            | Oldcastle BuildingEnvelope®          |
| 3272            | Oldcastle BuildingEnvelope®          | 3420            | Coral Industries Glass Division                    | 3503            | Oldcastle BuildingEnvelope®          |
| 3273            | Oldcastle BuildingEnvelope®          | 3421            | AGC Flat Glass North America                       | 3505            | Cardinal LG                          |
| 3274            | Oldcastle BuildingEnvelope®          | 3425            | Oldcastle BuildingEnvelope®                        | 3506            | Cardinal LG                          |
| 3275            | Oldcastle BuildingEnvelope®          | 3426            | Oldcastle BuildingEnvelope®                        | 3507            | Cardinal LG                          |
| 3276            | Oldcastle BuildingEnvelope®          | 3427            | Oldcastle BuildingEnvelope®                        | 3508            | Cardinal LG                          |
| 3277            | Oldcastle BuildingEnvelope®          | 3428            | Oldcastle BuildingEnvelope®                        | 3509            | Cardinal LG                          |
| 3278            | Oldcastle BuildingEnvelope®          | 3430            | Trulite Glass and Aluminum Solutions               | 3510            | Cardinal LG                          |
| 3279            | Oldcastle BuildingEnvelope®          | 3431            | TianJin Dong Sung Home Building Materials Co. Ltd. | 3532            | Kohler Company                       |
| 3280            | Oldcastle BuildingEnvelope®          | 3439            | Oldcastle BuildingEnvelope®                        | 3536            | Trulite Glass and Aluminum Solutions |
| 3281            | Oldcastle BuildingEnvelope®          | 3440            | Oldcastle BuildingEnvelope®                        | 3538            | PFG Glass                            |
| 3283            | Oldcastle BuildingEnvelope®          | 3441            | Oldcastle BuildingEnvelope®                        | 3539            | PFG Glass                            |
| 3284            | Oldcastle BuildingEnvelope®          | 3442            | Oldcastle BuildingEnvelope®                        | 3540            | PFG Glass                            |
| 3285            | Oldcastle BuildingEnvelope®          | 3443            | Oldcastle BuildingEnvelope®                        | 3541            | PFG Glass                            |
| 3286            | Oldcastle BuildingEnvelope®          | 3444            | Oldcastle BuildingEnvelope®                        | 3542            | PFG Glass                            |
| 3287            | Oldcastle BuildingEnvelope®          | 3445            | Oldcastle BuildingEnvelope®                        | 3543            | PFG Glass                            |
| 3288            | Oldcastle BuildingEnvelope®          | 3446            | Oldcastle BuildingEnvelope®                        | 3544            | PFG Glass                            |
| 3289            | Oldcastle BuildingEnvelope®          | 3447            | Oldcastle BuildingEnvelope®                        | 3547            | PFG Glass                            |
| 3290            | Oldcastle BuildingEnvelope®          | 3448            | Oldcastle BuildingEnvelope®                        | 3548            | PFG Glass                            |
| 3291            | Oldcastle BuildingEnvelope®          | 3453            | Glass Design of Miami, Inc.                        | 3549            | PFG Glass                            |
| 3292            | Oldcastle BuildingEnvelope®          | 3454            | Glass Design of Miami, Inc.                        | 3553            | Trulite Glass and Aluminum Solutions |
| 3293            | Oldcastle BuildingEnvelope®          | 3455            | Cardinal TG                                        | 3554            | Trulite Glass and Aluminum Solutions |
| 3294            | Oldcastle BuildingEnvelope®          | 3456            | Cardinal TG                                        | 3555            | Cardinal CG                          |
| 3295            | Oldcastle BuildingEnvelope®          | 3458            | Cardinal TG                                        | 3556            | Al Abbar Architectural Glass         |
| 3296            | Oldcastle BuildingEnvelope®          | 3459            | Cardinal TG                                        | 3557            | Al Abbar Architectural Glass         |
| 3297            | Oldcastle BuildingEnvelope®          | 3460            | TianJin Dong Sung Home Building Materials Co. Ltd. | 3558            | Al Abbar Architectural Glass         |
| 3310            | Oldcastle BuildingEnvelope®          | 3461            | Trulite Glass and Aluminum Solutions               | 3560            | Al Abbar Architectural Glass         |
| 3311            | Oldcastle BuildingEnvelope®          | 3462            | Oldcastle BuildingEnvelope®                        | 3561            | Oldcastle BuildingEnvelope®          |
| 3312            | Oldcastle BuildingEnvelope®          | 3464            | Contractors Wardrobe                               | 3567            | AVIC Sanxin Co. Ltd.                 |
| 3313            | Oldcastle BuildingEnvelope®          | 3465            | Contractors Wardrobe                               | 3568            | AVIC Sanxin Co. Ltd.                 |
| 3314            | Oldcastle BuildingEnvelope®          | 3466            | Contractors Wardrobe                               | 3569            | AVIC Sanxin Co. Ltd.                 |
| 3315            | Oldcastle BuildingEnvelope®          | 3467            | Contractors Wardrobe                               | 3570            | AVIC Sanxin Co. Ltd.                 |
| 3317            | Oldcastle BuildingEnvelope®          | 3468            | Contractors Wardrobe                               | 3571            | AVIC Sanxin Co. Ltd.                 |
| 3318            | Oldcastle BuildingEnvelope®          | 3469            | Contractors Wardrobe                               | 3572            | AVIC Sanxin Co. Ltd.                 |
| 3319            | Oldcastle BuildingEnvelope®          | 3470            | Contractors Wardrobe                               | 3573            | AVIC Sanxin Co. Ltd.                 |
| 3320            | Oldcastle BuildingEnvelope®          | 3472            | Contractors Wardrobe                               | 3577            | PPG Inds., Inc.                      |
| 3321            | Oldcastle BuildingEnvelope®          | 3473            | Contractors Wardrobe                               | 3578            | PPG Inds., Inc.                      |
| 3326            | Trulite Glass and Aluminum Solutions | 3474            | Contractors Wardrobe                               | 3579            | Cardinal CG                          |
| 3327            | Trulite Glass and Aluminum Solutions | 3475            | Contractors Wardrobe                               | 3580            | Cardinal CG                          |
| 3329            | Oldcastle BuildingEnvelope®          | 3476            | Contractors Wardrobe                               | 3581            | Cardinal CG                          |
| 3330            | Oldcastle BuildingEnvelope®          | 3477            | Contractors Wardrobe                               | 3583            | Arlene Stained Glass & Door          |
| 3331            | Oldcastle BuildingEnvelope®          | 3479            | Saint Gobain Mexico, S.A. de C.V.                  | 3584            | Arlene Stained Glass & Door          |
| 3332            | Oldcastle BuildingEnvelope®          | 3482            | PGT Industries                                     | 3585            | Arlene Stained Glass & Door          |
| 3333            | Oldcastle BuildingEnvelope®          | 3485            | Quaker Window Products, Inc.                       | 3599            | Cardinal CG                          |
| 3334            | Oldcastle BuildingEnvelope®          | 3486            | Quaker Window Products, Inc.                       | 3601            | Cardinal CG                          |
| 3335            | Oldcastle BuildingEnvelope®          | 3487            | Downey Glass Industries, LLC                       | 3603            | Trulite Glass and Aluminum Solutions |
| 3336            | Oldcastle BuildingEnvelope®          | 3489            | Xinyi Group (Glass) Co., Ltd.                      | 3604            | Guardian Fabrication Inc.            |
| 3337            | Oldcastle BuildingEnvelope®          |                 |                                                    | 3607            | Glass Design of Miami, Inc.          |
| 3338            | Oldcastle BuildingEnvelope®          |                 |                                                    | 3619            | Cardinal IG                          |

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| <b>SGCC No.</b> |                                                   | <b>SGCC No.</b> |                                      | <b>SGCC No.</b> |                                            |
|-----------------|---------------------------------------------------|-----------------|--------------------------------------|-----------------|--------------------------------------------|
| 3631            | Intigral                                          | 3796            | Oldcastle BuildingEnvelope®          | 3913            | Dillmeier Enterprise, Inc.                 |
| 3635            | Consolidated Glass Corp.                          | 3805            | Quality Glass & Mirror, Inc.         | 3914            | Dillmeier Enterprise, Inc.                 |
| 3636            | SCHOTT Gemtron (Canada) Corporation               | 3806            | Commercial Insulating Glass Co.      | 3915            | Dillmeier Enterprise, Inc.                 |
| 3637            | SCHOTT Gemtron (Canada) Corporation               | 3807            | Commercial Insulating Glass Co.      | 3916            | Dillmeier Enterprise, Inc.                 |
| 3645            | Trulite Glass and Aluminum Solutions              | 3808            | Commercial Insulating Glass Co.      | 3917            | Dillmeier Enterprise, Inc.                 |
| 3646            | Trulite Glass and Aluminum Solutions              | 3810            | Basco Engineered Products            | 3918            | Pennsylvania Insulating Glass              |
| 3647            | Trulite Glass and Aluminum Solutions              | 3811            | Basco Engineered Products            | 3919            | Pennsylvania Insulating Glass              |
| 3648            | Trulite Glass and Aluminum Solutions              | 3812            | Basco Engineered Products            | 3925            | Trulite Glass and Aluminum Solutions       |
| 3649            | Northwest Glass, Inc.                             | 3817            | Coral Industries Glass Division      | 3926            | Trulite Glass and Aluminum Solutions       |
| 3650            | Northwest Glass, Inc.                             | 3818            | Trulite Glass and Aluminum Solutions | 3927            | Trulite Glass and Aluminum Solutions       |
| 3651            | Northwest Glass, Inc.                             | 3819            | Trulite Glass and Aluminum Solutions | 3928            | Trulite Glass and Aluminum Solutions       |
| 3652            | Northwest Glass, Inc.                             | 3820            | Trulite Glass and Aluminum Solutions | 3931            | Trulite Glass and Aluminum Solutions       |
| 3653            | Northwest Glass, Inc.                             | 3822            | Flat Glass Distributors              | 3932            | Dongguan CSG Architectural Glass Co., Ltd. |
| 3655            | Northwest Glass, Inc.                             | 3823            | Flat Glass Distributors              | 3933            | Dongguan CSG Architectural Glass Co., Ltd. |
| 3656            | All Team Glass & Mirror, Ltd.                     | 3824            | Flat Glass Distributors              | 3934            | Dongguan CSG Architectural Glass Co., Ltd. |
| 3659            | SCHOTT Gemtron (Canada) Corporation               | 3825            | Flat Glass Distributors              | 3935            | Dongguan CSG Architectural Glass Co., Ltd. |
| 3661            | Galaxy Glass & Stone                              | 3826            | Flat Glass Distributors              | 3936            | Dongguan CSG Architectural Glass Co., Ltd. |
| 3663            | Trulite Glass and Aluminum Solutions              | 3828            | Flat Glass Distributors              | 3937            | Dongguan CSG Architectural Glass Co., Ltd. |
| 3672            | Guardian Industries Corp.                         | 3830            | Flat Glass Distributors              | 3938            | Dongguan CSG Architectural Glass Co., Ltd. |
| 3673            | Guardian Industries Corp.                         | 3831            | Flat Glass Distributors              | 3939            | Dongguan CSG Architectural Glass Co., Ltd. |
| 3689            | Viracon Inc.                                      | 3839            | Trulite Glass and Aluminum Solutions | 3941            | Guangdong Golden Glass Technologies        |
| 3690            | QinHuangDao Tianrui Tempered Technology Glass Co. | 3841            | Glenny Glass Co.                     | 3942            | Guangdong Golden Glass Technologies        |
| 3698            | AGC Flat Glass North America                      | 3843            | Glenny Glass Co.                     | 3943            | Guangdong Golden Glass Technologies        |
| 3701            | Dallas Flat Glass                                 | 3844            | Glenny Glass Co.                     | 3944            | Guangdong Golden Glass Technologies        |
| 3711            | PFG Glass                                         | 3845            | Glenny Glass Co.                     | 3945            | Guangdong Golden Glass Technologies        |
| 3714            | Insulite Glass Co., Inc.                          | 3846            | Glenny Glass Co.                     | 3946            | Guangdong Golden Glass Technologies        |
| 3715            | Insulite Glass Co., Inc.                          | 3857            | GGI Glass Distributors Corp.         | 3947            | Guangdong Golden Glass Technologies        |
| 3716            | Insulite Glass Co., Inc.                          | 3858            | GGI Glass Distributors Corp.         | 3948            | United Plate Glass Company of Charlotte    |
| 3717            | Insulite Glass Co., Inc.                          | 3859            | Insulated Glass of America, Inc.     | 3949            | United Plate Glass Company of Charlotte    |
| 3718            | Insulite Glass Co., Inc.                          | 3860            | Insulated Glass of America, Inc.     | 3950            | United Plate Glass Company of Charlotte    |
| 3720            | Insulite Glass Co., Inc.                          | 3861            | Insulated Glass of America, Inc.     | 3951            | United Plate Glass Company of Charlotte    |
| 3723            | Insulite Glass Co., Inc.                          | 3862            | Insulated Glass of America, Inc.     | 3952            | United Plate Glass Company of Charlotte    |
| 3729            | Oldcastle BuildingEnvelope®                       | 3863            | Insulated Glass of America, Inc.     | 3954            | United Plate Glass Company of Charlotte    |
| 3730            | Qinhuangdao Kunping Safety Glass Co. Ltd.         | 3864            | Insulated Glass of America, Inc.     | 3955            | United Plate Glass Company of Charlotte    |
| 3736            | Yao Xiang Glass Product Co. Ltd.                  | 3865            | Denver Glass Interiors, Inc.         | 3957            | JYC Glass Co. Ltd.                         |
| 3737            | Yao Xiang Glass Product Co. Ltd.                  | 3866            | Denver Glass Interiors, Inc.         | 3958            | JYC Glass Co. Ltd.                         |
| 3738            | Yao Xiang Glass Product Co. Ltd.                  | 3867            | Denver Glass Interiors, Inc.         | 3959            | JYC Glass Co. Ltd.                         |
| 3739            | Yao Xiang Glass Product Co. Ltd.                  | 3868            | Denver Glass Interiors, Inc.         | 3960            | JYC Glass Co. Ltd.                         |
| 3740            | Yao Xiang Glass Product Co. Ltd.                  | 3871            | Cardinal Tempering                   |                 |                                            |
| 3741            | Yao Xiang Glass Product Co. Ltd.                  | 3872            | Cardinal Tempering                   |                 |                                            |
| 3742            | Yao Xiang Glass Product Co. Ltd.                  | 3873            | Cardinal Tempering                   |                 |                                            |
| 3743            | Yao Xiang Glass Product Co. Ltd.                  | 3874            | Cardinal Tempering                   |                 |                                            |
| 3745            | Ready Glass & Mirror, Inc.                        | 3875            | Cardinal Tempering                   |                 |                                            |
| 3746            | Ready Glass & Mirror, Inc.                        | 3880            | PGT Industries                       |                 |                                            |
| 3747            | Ready Glass & Mirror, Inc.                        | 3881            | PGT Industries                       |                 |                                            |
| 3748            | Ready Glass & Mirror, Inc.                        | 3886            | Taiwan Glass Industry Corp.          |                 |                                            |
| 3750            | Berkowitz, J.E.                                   | 3887            | Taiwan Glass Industry Corp.          |                 |                                            |
| 3768            | Trulite Glass and Aluminum Solutions              | 3888            | Taiwan Glass Industry Corp.          |                 |                                            |
| 3787            | Tai Shan City Da Heng Art Glass Ltd.              | 3889            | Taiwan Glass Industry Corp.          |                 |                                            |
| 3788            | Tai Shan City Da Heng Art Glass Ltd.              | 3890            | Taiwan Glass Industry Corp.          |                 |                                            |
| 3789            | Tai Shan City Da Heng Art Glass Ltd.              | 3891            | Taiwan Glass Industry Corp.          |                 |                                            |
| 3793            | Oldcastle BuildingEnvelope®                       | 3892            | Taiwan Glass Industry Corp.          |                 |                                            |
|                 |                                                   | 3893            | Taiwan Glass Industry Corp.          |                 |                                            |
|                 |                                                   | 3905            | PT Abebersa Pratama                  |                 |                                            |
|                 |                                                   | 3906            | PT Abebersa Pratama                  |                 |                                            |
|                 |                                                   | 3907            | Oldcastle BuildingEnvelope®          |                 |                                            |
|                 |                                                   | 3912            | Dillmeier Enterprise, Inc.           |                 |                                            |

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| <b>SGCC No.</b> |                                                | <b>SGCC No.</b> |                                                    | <b>SGCC No.</b> |                                            |
|-----------------|------------------------------------------------|-----------------|----------------------------------------------------|-----------------|--------------------------------------------|
| 3961            | JYC Glass Co. Ltd.                             | 4035            | TianJin Dong Sung Home Building Materials Co. Ltd. | 4123            | Dongguan Dongfa Glass Product Co., Ltd     |
| 3962            | JYC Glass Co. Ltd.                             | 4041            | Vidrios Marte SA de CV                             | 4124            | Dongguan Dongfa Glass Product Co., Ltd     |
| 3963            | JYC Glass Co. Ltd.                             | 4042            | Vidrios Marte SA de CV                             | 4125            | Dongguan Dongfa Glass Product Co., Ltd     |
| 3970            | GGI Glass Distributors Corp.                   | 4046            | AGC Flat Glass North America                       | 4126            | Dongguan Dongfa Glass Product Co., Ltd     |
| 3971            | GGI Glass Distributors Corp.                   | 4047            | Cardinal CG                                        | 4132            | Dongguan Dongfa Glass Product Co., Ltd     |
| 3972            | GGI Glass Distributors Corp.                   | 4048            | WSD Glass, Inc.                                    | 4133            | Oldcastle BuildingEnvelope®                |
| 3973            | GGI Glass Distributors Corp.                   | 4049            | WSD Glass, Inc.                                    | 4134            | Trulite Glass and Aluminum Solutions       |
| 3974            | GGI Glass Distributors Corp.                   | 4050            | WSD Glass, Inc.                                    | 4135            | Trulite Glass and Aluminum Solutions       |
| 3976            | Al Abbar Architectural Glass                   | 4051            | WSD Glass, Inc.                                    | 4137            | Cardinal CG                                |
| 3977            | Al Abbar Architectural Glass                   | 4052            | WSD Glass, Inc.                                    | 4139            | Basco Engineered Products                  |
| 3978            | SAAND London                                   | 4054            | Oldcastle BuildingEnvelope®                        | 4146            | Deqing Sanxing Plastic Chemical Co. Ltd.   |
| 3979            | SAAND London                                   | 4055            | Deqing Sanxing Plastic Chemical Co. Ltd.           | 4147            | Deqing Sanxing Plastic Chemical Co. Ltd.   |
| 3980            | SAAND London                                   | 4056            | Deqing Sanxing Plastic Chemical Co. Ltd.           | 4148            | Nashville Tempered Glass LLC               |
| 3981            | SAAND London                                   | 4057            | Deqing Sanxing Plastic Chemical Co. Ltd.           | 4152            | Trulite Glass and Aluminum Solutions       |
| 3984            | Vidrios El Castillo SC de RL de CV             | 4061            | Troy Systems LLC                                   | 4153            | Trulite Glass and Aluminum Solutions       |
| 3985            | Vidrios El Castillo SC de RL de CV             | 4062            | Troy Systems LLC                                   | 4154            | EFCO Corporation                           |
| 3986            | Vidrios El Castillo SC de RL de CV             | 4063            | Troy Systems LLC                                   | 4156            | Qinhuangdao Detai Tempered Glass Co., Ltd. |
| 3987            | Vidrios El Castillo SC de RL de CV             | 4067            | Shanghai SYP Engineering Glass                     | 4158            | Trulite Glass and Aluminum Solutions       |
| 3988            | Vidrios El Castillo SC de RL de CV             | 4068            | Shanghai SYP Engineering Glass                     | 4159            | Trulite Glass and Aluminum Solutions       |
| 3991            | JYC Glass Co. Ltd.                             | 4069            | Shanghai SYP Engineering Glass                     | 4160            | Trulite Glass and Aluminum Solutions       |
| 3992            | JYC Glass Co. Ltd.                             | 4070            | Shanghai SYP Engineering Glass                     | 4161            | JYC Glass Co. Ltd.                         |
| 3993            | JYC Glass Co. Ltd.                             | 4071            | Shanghai SYP Engineering Glass                     | 4162            | JYC Glass Co. Ltd.                         |
| 3994            | JYC Glass Co. Ltd.                             | 4072            | Shanghai SYP Engineering Glass                     | 4163            | JYC Glass Co. Ltd.                         |
| 3999            | Oldcastle BuildingEnvelope®                    | 4073            | Shanghai SYP Engineering Glass                     | 4165            | JYC Glass Co. Ltd.                         |
| 4001            | Oldcastle BuildingEnvelope®                    | 4074            | Shanghai SYP Engineering Glass                     | 4166            | JYC Glass Co. Ltd.                         |
| 4002            | Custom Glass Products Inc.                     | 4075            | Tianjin SYP Engineering Glass                      | 4167            | Dongguan CSG Architectural Glass Co., Ltd. |
| 4003            | Tecnoglass S.A.                                | 4076            | Tianjin SYP Engineering Glass                      | 4169            | W. A. Wilson Inc.                          |
| 4004            | Tri-Star Glass                                 | 4077            | Tianjin SYP Engineering Glass                      | 4170            | W. A. Wilson Inc.                          |
| 4005            | Tri-Star Glass                                 | 4078            | Tianjin SYP Engineering Glass                      | 4171            | W. A. Wilson Inc.                          |
| 4006            | Tri-Star Glass                                 | 4079            | Tianjin SYP Engineering Glass                      | 4172            | W. A. Wilson Inc.                          |
| 4007            | Tri-Star Glass                                 | 4080            | Tianjin SYP Engineering Glass                      | 4173            | W. A. Wilson Inc.                          |
| 4008            | Tri-Star Glass                                 | 4081            | Tianjin SYP Engineering Glass                      | 4175            | W. A. Wilson Inc.                          |
| 4009            | Tri-Star Glass                                 | 4083            | Tianjin SYP Engineering Glass                      | 4176            | W. A. Wilson Inc.                          |
| 4010            | Tri-Star Glass                                 | 4084            | Tianjin SYP Engineering Glass                      | 4179            | Xinyi Group (Glass) Co., Ltd.              |
| 4011            | Tri-Star Glass                                 | 4089            | Trulite Glass and Aluminum Solutions               | 4180            | Oldcastle BuildingEnvelope®                |
| 4012            | Kohler Company                                 | 4090            | Trulite Glass and Aluminum Solutions               | 4181            | Oldcastle BuildingEnvelope®                |
| 4021            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4091            | Cardinal IG                                        | 4182            | Trulite Glass and Aluminum Solutions       |
| 4022            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4093            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.       | 4183            | Trulite Glass and Aluminum Solutions       |
| 4023            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4094            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.       | 4184            | Trulite Glass and Aluminum Solutions       |
| 4024            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4095            | Zhangjiagang Weiyu Fabricated Glass Co. Ltd.       | 4185            | Trulite Glass and Aluminum Solutions       |
| 4025            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4103            | Cardinal CG                                        | 4186            | Trulite Glass and Aluminum Solutions       |
| 4026            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4104            | Cardinal CG                                        | 4187            | Trulite Glass and Aluminum Solutions       |
| 4027            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4105            | Cardinal CG                                        | 4188            | Trulite Glass and Aluminum Solutions       |
| 4028            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4106            | Tianjin CSG Energy Conservation Glass Co., Ltd     | 4189            | Trulite Glass and Aluminum Solutions       |
| 4030            | Tianjin CSG Energy Conservation Glass Co., Ltd | 4107            | Tianjin CSG Energy Conservation Glass Co., Ltd     | 4197            | United Plate Glass Company of Charlotte    |
| 4031            | General Glass                                  | 4108            | Tianjin CSG Energy Conservation Glass Co., Ltd     | 4198            | Glass and Mirror Craft                     |
| 4032            | General Glass                                  | 4120            | Cardinal LG                                        | 4199            | Glass and Mirror Craft                     |
| 4033            | General Glass                                  | 4121            | EFCO Corporation                                   | 4200            | Glass and Mirror Craft                     |
| 4034            | General Glass                                  |                 |                                                    |                 |                                            |



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| <b>SGCC No.</b> |                                             | <b>SGCC No.</b> |                                         | <b>SGCC No.</b> |                                           |
|-----------------|---------------------------------------------|-----------------|-----------------------------------------|-----------------|-------------------------------------------|
| 4201            | Glass and Mirror Craft                      | 4290            | Thermo BSL                              | 4356            | SAAND Toronto                             |
| 4202            | Glass and Mirror Craft                      | 4291            | Thermo BSL                              | 4357            | SAAND Toronto                             |
| 4203            | Glass and Mirror Craft                      | 4292            | Thermo BSL                              | 4358            | SAAND Toronto                             |
| 4204            | Glass and Mirror Craft                      | 4293            | Thermo BSL                              | 4361            | Cardinal LG                               |
| 4206            | SIGCO, Inc.                                 | 4299            | Mega Tempering                          | 4362            | Cardinal LG                               |
| 4207            | Trulite Glass and Aluminum Solutions        | 4300            | Mega Tempering                          | 4363            | Changshu Zhongxin Bldg. Mat. Co.          |
| 4209            | Trulite Glass and Aluminum Solutions        | 4301            | Mega Tempering                          | 4371            | Trulite Glass and Aluminum Solutions      |
| 4210            | Trulite Glass and Aluminum Solutions        | 4303            | Jiangmen SYP Engineering Glass          | 4372            | Trulite Glass and Aluminum Solutions      |
| 4211            | Trulite Glass and Aluminum Solutions        | 4304            | Jiangmen SYP Engineering Glass          | 4373            | Trulite Glass and Aluminum Solutions      |
| 4212            | Trulite Glass and Aluminum Solutions        | 4305            | Jiangmen SYP Engineering Glass          | 4374            | Trulite Glass and Aluminum Solutions      |
| 4213            | Trulite Glass and Aluminum Solutions        | 4306            | Jiangmen SYP Engineering Glass          | 4375            | Glass Dynamics, Inc.                      |
| 4214            | Trulite Glass and Aluminum Solutions        | 4307            | Jiangmen SYP Engineering Glass          | 4376            | Glass Dynamics, Inc.                      |
| 4215            | Trulite Glass and Aluminum Solutions        | 4308            | Jiangmen SYP Engineering Glass          | 4379            | Wholesale Glass Dist.                     |
| 4216            | Trulite Glass and Aluminum Solutions        | 4309            | Jiangmen SYP Engineering Glass          | 4380            | Wholesale Glass Dist.                     |
| 4217            | Trulite Glass and Aluminum Solutions        | 4310            | Jiangmen SYP Engineering Glass          | 4381            | Wholesale Glass Dist.                     |
| 4218            | Trulite Glass and Aluminum Solutions        | 4312            | Jiangmen SYP Engineering Glass          | 4382            | Wholesale Glass Dist.                     |
| 4219            | Trulite Glass and Aluminum Solutions        | 4318            | Maryland Glass & Mirror                 | 4384            | Oldcastle BuildingEnvelope®               |
| 4220            | Trulite Glass and Aluminum Solutions        | 4319            | Maryland Glass & Mirror                 | 4387            | Oldcastle BuildingEnvelope®               |
| 4221            | Trulite Glass and Aluminum Solutions        | 4320            | Maryland Glass & Mirror                 | 4388            | Engineered Glass Products, L.L.C.         |
| 4225            | RF Supply, Inc.                             | 4321            | Maryland Glass & Mirror                 | 4389            | Jiaxing Joinbath Corporation              |
| 4226            | RF Supply, Inc.                             | 4322            | Maryland Glass & Mirror                 | 4391            | Oldcastle BuildingEnvelope®               |
| 4227            | RF Supply, Inc.                             | 4326            | SIGCO, Inc.                             | 4392            | Oldcastle BuildingEnvelope®               |
| 4232            | Trulite Glass and Aluminum Solutions        | 4327            | SIGCO, Inc.                             | 4393            | Oldcastle BuildingEnvelope®               |
| 4233            | Trulite Glass and Aluminum Solutions        | 4328            | Aldora Aluminum and Glass Products Inc. | 4394            | Kawneer - (Cranberry) a division of Alcoa |
| 4240            | Industrial Tempering Glass                  |                 |                                         |                 |                                           |
| 4245            | Oldcastle BuildingEnvelope®                 | 4329            | Aldora Aluminum and Glass Products Inc. | 4395            | Kawneer - (Cranberry) a division of Alcoa |
| 4246            | Vetzeria Valentini S.R.L.                   |                 |                                         | 4396            | Oldcastle BuildingEnvelope®               |
| 4247            | Oldcastle BuildingEnvelope®                 | 4330            | Aldora Aluminum and Glass Products Inc. | 4397            | Oldcastle BuildingEnvelope®               |
| 4248            | GGI Glass Distributors Corp.                | 4331            | Aldora Aluminum and Glass Products Inc. | 4398            | Oldcastle BuildingEnvelope®               |
| 4249            | Viracon Inc.                                |                 |                                         | 4399            | Oldcastle BuildingEnvelope®               |
| 4250            | Viracon Inc.                                | 4332            | Aldora Aluminum and Glass Products Inc. | 4400            | Oldcastle BuildingEnvelope®               |
| 4254            | Mercer Glass Fab LLC                        |                 |                                         | 4401            | Oldcastle BuildingEnvelope®               |
| 4255            | Mercer Glass Fab LLC                        | 4333            | Aldora Aluminum and Glass Products Inc. | 4402            | Oldcastle BuildingEnvelope®               |
| 4256            | Mercer Glass Fab LLC                        |                 |                                         | 4411            | Tri-Star Glass                            |
| 4257            | Mercer Glass Fab LLC                        | 4334            | Aldora Aluminum and Glass Products Inc. | 4413            | Glass Dynamics, Inc.                      |
| 4258            | Mercer Glass Fab LLC                        |                 |                                         | 4414            | Glass Dynamics, Inc.                      |
| 4265            | Trulite Glass and Aluminum Solutions - East | 4335            | Aldora Aluminum and Glass Products Inc. | 4419            | Garibaldi Glass Ind. Inc.                 |
| 4266            | Trulite Glass and Aluminum Solutions - East | 4336            | Aldora Aluminum and Glass Products Inc. | 4420            | Garibaldi Glass Ind. Inc.                 |
| 4267            | Trulite Glass and Aluminum Solutions - East | 4337            | Aldora Aluminum and Glass Products Inc. | 4421            | Garibaldi Glass Ind. Inc.                 |
| 4268            | Trulite Glass and Aluminum Solutions - East | 4338            | Aldora Aluminum and Glass Products Inc. | 4422            | Garibaldi Glass Ind. Inc.                 |
| 4269            | Trulite Glass and Aluminum Solutions - East | 4339            | Aldora Aluminum and Glass Products Inc. | 4423            | Oldcastle BuildingEnvelope®               |
| 4270            | Trulite Glass and Aluminum Solutions - East |                 |                                         | 4424            | Oldcastle BuildingEnvelope®               |
| 4271            | Trulite Glass and Aluminum Solutions - East | 4340            | Oldcastle BuildingEnvelope®             | 4425            | Fairis C.A.                               |
| 4272            | Trulite Glass and Aluminum Solutions - East | 4342            | Trulite Glass and Aluminum Solutions    | 4426            | Fairis C.A.                               |
| 4277            | Trulite Glass and Aluminum Solutions        | 4343            | Cardinal CG                             | 4427            | Fairis C.A.                               |
| 4278            | SAAND London                                | 4344            | Cardinal CG                             | 4428            | Fairis C.A.                               |
| 4280            | M/M Tempering Inc.                          | 4345            | Cardinal CG                             | 4429            | Fairis C.A.                               |
| 4281            | M/M Tempering Inc.                          | 4346            | Oldcastle BuildingEnvelope®             | 4430            | Fairis C.A.                               |
| 4282            | M/M Tempering Inc.                          | 4347            | Cardinal CG                             | 4431            | Hartung Glass Industries Lami             |
| 4285            | Contour Industries, Inc.                    | 4350            | Cardinal LG                             | 4432            | Oldcastle BuildingEnvelope®               |
|                 |                                             | 4351            | Cardinal LG                             | 4433            | Oldcastle BuildingEnvelope®               |
|                 |                                             | 4353            | Shanghai SYP Building Glass             | 4435            | Oldcastle BuildingEnvelope®               |
|                 |                                             | 4354            | Viracon Inc.                            | 4437            | Trulite Glass and Aluminum Solutions      |
|                 |                                             | 4355            | All Team Glass & Mirror, Ltd.           | 4443            | Oldcastle BuildingEnvelope®               |
|                 |                                             |                 |                                         | 4444            | Oldcastle BuildingEnvelope®               |
|                 |                                             |                 |                                         | 4446            | Oldcastle BuildingEnvelope®               |

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| SGCC No. |                                             | SGCC No. |                                              | SGCC No. |                                                      |
|----------|---------------------------------------------|----------|----------------------------------------------|----------|------------------------------------------------------|
| 4448     | Oldcastle BuildingEnvelope®                 | 4543     | SIGCO, Inc.                                  | 4629     | Glass Enterprises, Inc.                              |
| 4449     | Oldcastle BuildingEnvelope®                 | 4546     | Cleer Vision Tempered Glass                  | 4631     | Hartung Glass Industries                             |
| 4452     | Trulite Glass and Aluminum Solutions        | 4547     | Cleer Vision Tempered Glass                  | 4633     | Guardian Industries Corp.                            |
| 4453     | Trulite Glass and Aluminum Solutions        | 4554     | Trulite Glass and Aluminum Solutions         | 4635     | Qinhuangdao High Tech Energy Saving Dorwin Co., Ltd. |
| 4454     | Oldcastle BuildingEnvelope®                 | 4555     | Trulite Glass and Aluminum Solutions         | 4636     | United Plate Glass Company of Charlotte              |
| 4455     | Oldcastle BuildingEnvelope®                 | 4558     | Oldcastle BuildingEnvelope®                  | 4638     | Flat Glass Distributors                              |
| 4456     | Oldcastle BuildingEnvelope®                 | 4561     | Oldcastle BuildingEnvelope®                  | 4639     | Productos De Valor Agregado en Cristal S.A. de C.V.  |
| 4457     | Oldcastle BuildingEnvelope®                 | 4563     | Oldcastle BuildingEnvelope®                  | 4640     | Productos De Valor Agregado en Cristal S.A. de C.V.  |
| 4458     | Oldcastle BuildingEnvelope®                 | 4566     | Dallas Flat Glass                            | 4641     | Productos De Valor Agregado en Cristal S.A. de C.V.  |
| 4460     | Oldcastle BuildingEnvelope®                 | 4567     | Dallas Flat Glass                            | 4642     | Productos De Valor Agregado en Cristal S.A. de C.V.  |
| 4461     | Oldcastle BuildingEnvelope®                 | 4571     | Architectural Glass Products, LLC            | 4643     | Amsco Windows                                        |
| 4468     | Thermoseal Industries, LLC                  | 4572     | Architectural Glass Products, LLC            | 4645     | Productos De Valor Agregado en Cristal S.A. de C.V.  |
| 4470     | Thermoseal Industries, LLC                  | 4573     | Architectural Glass Products, LLC            | 4648     | Xinyi Group (Glass) Co., Ltd.                        |
| 4471     | Thermoseal Industries, LLC                  | 4574     | Architectural Glass Products, LLC            | 4651     | Vitra Vidrios Transformados SA de CV                 |
| 4473     | Insulite Glass Co., Inc.                    | 4575     | Jiangmen SYP Engineering Glass               | 4652     | Vitra Vidrios Transformados SA de CV                 |
| 4474     | Insulite Glass Co., Inc.                    | 4576     | Oldcastle BuildingEnvelope®                  | 4653     | Vitra Vidrios Transformados SA de CV                 |
| 4475     | Oldcastle BuildingEnvelope®                 | 4578     | Cardinal CT                                  | 4654     | Vitra Vidrios Transformados SA de CV                 |
| 4476     | Oldcastle BuildingEnvelope®                 | 4579     | Cardinal CT                                  | 4655     | Vitra Vidrios Transformados SA de CV                 |
| 4477     | Oldcastle BuildingEnvelope®                 | 4580     | Cardinal CT                                  | 4656     | Guardian Fabrication Inc.                            |
| 4478     | Trulite Glass and Aluminum Solutions - East | 4581     | Cardinal CT                                  | 4657     | Changshu Xingfu Glass Building Material Co., LTD     |
| 4479     | Trulite Glass and Aluminum Solutions - East | 4582     | Cardinal CT                                  | 4658     | Guardian Industries Corp.                            |
| 4495     | Alyusuf Thermo Glass W.L.L.                 | 4584     | Cardinal LG                                  | 4661     | The Original Frameless Shower Door                   |
| 4496     | Alyusuf Thermo Glass W.L.L.                 | 4587     | Cardinal LG                                  | 4662     | The Original Frameless Shower Door                   |
| 4497     | Alyusuf Thermo Glass W.L.L.                 | 4588     | Intigral                                     | 4663     | The Original Frameless Shower Door                   |
| 4498     | Alyusuf Thermo Glass W.L.L.                 | 4590     | Al Abbar Architectural Glass                 | 4667     | Trulite Glass and Aluminum Solutions                 |
| 4499     | Diamond Sea Glaze                           | 4591     | New Angle Beveling                           | 4668     | Kohler Company                                       |
| 4500     | Diamond Sea Glaze                           | 4592     | New Angle Beveling                           | 4669     | Foshan Nanhai Gangsheng Tempered Glass Factory       |
| 4501     | Diamond Sea Glaze                           | 4593     | New Angle Beveling                           | 4670     | Foshan Nanhai Gangsheng Tempered Glass Factory       |
| 4502     | Diamond Sea Glaze                           | 4594     | New Angle Beveling                           | 4671     | Foshan Nanhai Gangsheng Tempered Glass Factory       |
| 4503     | Diamond Sea Glaze                           | 4595     | New Angle Beveling                           | 4672     | Foshan Nanhai Gangsheng Tempered Glass Factory       |
| 4504     | Diamond Sea Glaze                           | 4597     | White Aluminum Enterprises LLC               | 4673     | Foshan Nanhai Gangsheng Tempered Glass Factory       |
| 4505     | Diamond Sea Glaze                           | 4598     | White Aluminum Enterprises LLC               | 4675     | Reem Emirates Aluminum & Glass                       |
| 4506     | Diamond Sea Glaze                           | 4599     | Cardinal CG                                  | 4676     | Reem Emirates Aluminum & Glass                       |
| 4507     | Denver Glass Interiors, Inc.                | 4601     | Trulite Glass and Aluminum Solutions         | 4677     | Reem Emirates Aluminum & Glass                       |
| 4508     | Denver Glass Interiors, Inc.                | 4602     | Zhangjiagang Weiyu Fabricated Glass Co. Ltd. | 4682     | Integral Seal Mfg. Inc.                              |
| 4509     | Techni-Glass, Inc.                          | 4604     | Guardian Industries Corp.                    | 4683     | Integral Seal Mfg. Inc.                              |
| 4510     | Techni-Glass, Inc.                          | 4605     | Guardian Industries Corp.                    | 4684     | Integral Seal Mfg. Inc.                              |
| 4512     | Perficom, S.A. de C.V.                      | 4606     | Guardian Industries Corp.                    | 4686     | Hartung Glass Industries                             |
| 4517     | Blue Star Glass Inc.                        | 4607     | Guardian Industries Corp.                    | 4688     | Basco Engineered Products                            |
| 4518     | Blue Star Glass Inc.                        | 4608     | Guardian Industries Corp.                    | 4689     | Basco Engineered Products                            |
| 4519     | Blue Star Glass Inc.                        | 4609     | Guardian Industries Corp.                    | 4700     | Oldcastle BuildingEnvelope®                          |
| 4520     | Blue Star Glass Inc.                        | 4610     | Guardian Industries Corp.                    | 4701     | Contour Industries, Inc.                             |
| 4521     | Blue Star Glass Inc.                        | 4611     | Guardian Industries Corp.                    |          |                                                      |
| 4522     | Trulite Glass and Aluminum Solutions        | 4612     | Guardian Industries Corp.                    |          |                                                      |
| 4523     | Solar Seal Connecticut                      | 4613     | Guardian Industries Corp.                    |          |                                                      |
| 4524     | Multiver                                    | 4616     | American Shower Door                         |          |                                                      |
| 4526     | Oldcastle BuildingEnvelope®                 | 4618     | Oldcastle BuildingEnvelope®                  |          |                                                      |
| 4527     | Oldcastle BuildingEnvelope®                 | 4620     | Cardinal CT                                  |          |                                                      |
| 4528     | Oldcastle BuildingEnvelope®                 | 4621     | Cardinal CT                                  |          |                                                      |
| 4529     | Oldcastle BuildingEnvelope®                 | 4622     | Cardinal CT                                  |          |                                                      |
| 4530     | Mercer Glass Fab LLC                        | 4623     | Cardinal CT                                  |          |                                                      |
| 4531     | Oldcastle BuildingEnvelope®                 | 4624     | Cardinal CT                                  |          |                                                      |
| 4533     | Oldcastle BuildingEnvelope®                 | 4625     | Cardinal CT                                  |          |                                                      |
| 4535     | Guangdong Golden Glass Technologies         | 4626     | Downey Glass Industries, LLC                 |          |                                                      |
|          |                                             | 4627     | Guardian Industries Corp.                    |          |                                                      |
|          |                                             | 4628     | Glass Enterprises, Inc.                      |          |                                                      |

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|-----------------|------------------------------------------|-----------------|-----------------------------------------------------|-----------------|----------------------------------------------------------------|
| 4702            | Contour Industries, Inc.                 | 4769            | Global Security Glazing                             | 4836            | Cardinal IG                                                    |
| 4703            | Contour Industries, Inc.                 | 4770            | Global Security Glazing                             | 4837            | Berkowitz, J.E.                                                |
| 4704            | Contour Industries, Inc.                 | 4771            | A Plus Glass Services                               | 4838            | Dillmeier Enterprise, Inc.                                     |
| 4705            | Contour Industries, Inc.                 | 4772            | A Plus Glass Services                               | 4839            | Dillmeier Enterprise, Inc.                                     |
| 4710            | Oldcastle BuildingEnvelope®              | 4773            | A Plus Glass Services                               | 4841            | Cardinal LG                                                    |
| 4711            | Pulp Studio Inc.                         | 4774            | GGI Glass Distributors Corp.                        | 4842            | Cardinal LG                                                    |
| 4712            | Vidrios El Castillo SC de RL de CV       | 4775            | Cardinal CG                                         | 4843            | Cardinal LG                                                    |
| 4713            | Vidrios El Castillo SC de RL de CV       | 4779            | Viracon Inc.                                        | 4844            | Cardinal LG                                                    |
| 4714            | Consolidated Glass Corp.                 | 4780            | Cardinal CG                                         | 4846            | Al Abbar Architectural Glass                                   |
| 4715            | Aldora Aluminum and Glass Products, Inc. | 4781            | Cardinal CG                                         | 4847            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company |
| 4716            | Aldora Aluminum and Glass Products, Inc. | 4783            | Cardinal CG                                         | 4848            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company |
| 4717            | Aldora Aluminum and Glass Products, Inc. | 4784            | Viracon Inc.                                        | 4849            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company |
| 4718            | Aldora Aluminum and Glass Products, Inc. | 4785            | Consolidated Glass Corp.                            | 4850            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company |
| 4719            | Aldora Aluminum and Glass Products, Inc. | 4787            | Oldcastle BuildingEnvelope®                         | 4851            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company |
| 4720            | Viracon Inc.                             | 4788            | Productos De Valor Agregado en Cristal S.A. de C.V. | 4870            | Tai Sheng (Dong Guan) Glass Co.,Ltd                            |
| 4722            | Fairis C.A.                              | 4789            | Aldora Aluminum and Glass Products, Inc.            | 4872            | Tai Sheng (Dong Guan) Glass Co.,Ltd                            |
| 4723            | Guangdong Golden Glass Technologies      | 4790            | Dallas Flat Glass                                   | 4873            | Tai Sheng (Dong Guan) Glass Co.,Ltd                            |
| 4724            | Basco Engineered Products                | 4791            | D3 Glass, LLC                                       | 4875            | Yong Feng Tai Foshan City Glas Co., LTD.                       |
| 4725            | View Inc.                                | 4792            | D3 Glass, LLC                                       | 4876            | Yong Feng Tai Foshan City Glas Co., LTD.                       |
| 4726            | View Inc.                                | 4793            | D3 Glass, LLC                                       | 4877            | Yong Feng Tai Foshan City Glas Co., LTD.                       |
| 4727            | View Inc.                                | 4795            | D3 Glass, LLC                                       | 4881            | Cardinal TG                                                    |
| 4728            | View Inc.                                | 4796            | Gulf Glass Industries, LLC                          | 4882            | Oldcastle BuildingEnvelope®                                    |
| 4729            | Dolphin Glass Specialists, LLC           | 4797            | Gulf Glass Industries, LLC                          | 4883            | AGNORA (Architectural Glass North America)                     |
| 4730            | Tacoma Glass Mfg. Inc.                   | 4798            | Gulf Glass Industries, LLC                          | 4884            | AGNORA (Architectural Glass North America)                     |
| 4731            | Tacoma Glass Mfg. Inc.                   | 4799            | Gulf Glass Industries, LLC                          | 4885            | AGNORA (Architectural Glass North America)                     |
| 4732            | Tacoma Glass Mfg. Inc.                   | 4800            | Guardian Industries Corp.                           | 4886            | AGNORA (Architectural Glass North America)                     |
| 4733            | Tacoma Glass Mfg. Inc.                   | 4801            | PGT Industries                                      | 4887            | GSA Armourplate                                                |
| 4735            | Tacoma Glass Mfg. Inc.                   | 4804            | Glasswerks LA, Inc.                                 | 4889            | GlassFab Tempering Services Inc.                               |
| 4742            | Cardinal CT                              | 4805            | Glasswerks LA, Inc.                                 | 4890            | GlassFab Tempering Services Inc.                               |
| 4743            | Trulite Glass and Aluminum Solutions     | 4806            | Glasswerks LA, Inc.                                 | 4891            | GlassFab Tempering Services Inc.                               |
| 4744            | Trulite Glass and Aluminum Solutions     | 4807            | Shanghai SYP Building Glass                         | 4892            | GlassFab Tempering Services Inc.                               |
| 4745            | Trulite Glass and Aluminum Solutions     | 4810            | Aldora Aluminum and Glass Products, Inc.            | 4893            | GlassFab Tempering Services Inc.                               |
| 4746            | Trulite Glass and Aluminum Solutions     | 4811            | Paragon Tempered Glass                              | 4894            | GlassFab Tempering Services Inc.                               |
| 4747            | Trulite Glass and Aluminum Solutions     | 4812            | PGT Industries                                      | 4895            | GlassFab Tempering Services Inc.                               |
| 4748            | Trulite Glass and Aluminum Solutions     | 4813            | McGrory Glass                                       | 4896            | GlassFab Tempering Services Inc.                               |
| 4749            | Trulite Glass and Aluminum Solutions     | 4814            | McGrory Glass                                       | 4897            | GlassFab Tempering Services Inc.                               |
| 4750            | Trulite Glass and Aluminum Solutions     | 4815            | McGrory Glass                                       | 4898            | GlassFab Tempering Services Inc.                               |
| 4752            | Trulite Glass and Aluminum Solutions     | 4816            | McGrory Glass                                       | 4899            | GlassFab Tempering Services Inc.                               |
| 4753            | Trulite Glass and Aluminum Solutions     | 4817            | McGrory Glass                                       | 4900            | NY Tempering LLC                                               |
| 4754            | Trulite Glass and Aluminum Solutions     | 4818            | McGrory Glass                                       | 4901            | NY Tempering LLC                                               |
| 4755            | Trulite Glass and Aluminum Solutions     | 4819            | McGrory Glass                                       | 4902            | NY Tempering LLC                                               |
| 4756            | Cardinal CT                              | 4820            | McGrory Glass                                       | 4903            | NY Tempering LLC                                               |
| 4757            | Cardinal CT                              | 4822            | Thermal Seal Insulating Glass                       | 4904            | Prelco Inc.                                                    |
| 4758            | Cardinal CT                              | 4823            | Thermal Seal Insulating Glass                       | 4905            | Prelco Inc.                                                    |
| 4759            | Cardinal CT                              | 4824            | Thermal Seal Insulating Glass                       |                 |                                                                |
| 4760            | Cardinal CT                              | 4825            | Thermal Seal Insulating Glass                       |                 |                                                                |
| 4761            | Cardinal CT                              | 4826            | Thermal Seal Insulating Glass                       |                 |                                                                |
| 4763            | Dallas Flat Glass                        | 4827            | Trulite Glass and Aluminum Solutions                |                 |                                                                |
| 4764            | Global Security Glazing                  | 4828            | Jiaxing Joinbath Corporation                        |                 |                                                                |
| 4765            | Global Security Glazing                  | 4829            | Guardian Industries Corp.                           |                 |                                                                |
| 4766            | Global Security Glazing                  | 4830            | Thermal Seal Insulating Glass                       |                 |                                                                |
| 4767            | Global Security Glazing                  | 4831            | Thermal Seal Insulating Glass                       |                 |                                                                |
| 4768            | Global Security Glazing                  | 4832            | Cameron Glass, Inc.                                 |                 |                                                                |
|                 |                                          | 4834            | D3 Glass, LLC                                       |                 |                                                                |

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| <b>SGCC No.</b> |                                            | <b>SGCC No.</b> |                                             | <b>SGCC No.</b> |                                                       |
|-----------------|--------------------------------------------|-----------------|---------------------------------------------|-----------------|-------------------------------------------------------|
| 4906            | Prelco Inc.                                | 4984            | Trulite Glass and Aluminum Solutions        | 5037            | Vitra Vidrios Transformados SA de CV                  |
| 4907            | Grand Glass Windows and Doors Inc.         | 4985            | Trulite Glass and Aluminum Solutions        | 5039            | Triview Glass Industries                              |
| 4909            | Grand Glass Windows and Doors Inc.         | 4986            | Trulite Glass and Aluminum Solutions        | 5040            | Triview Glass Industries                              |
| 4911            | Prelco Inc.                                | 4987            | Trulite Glass and Aluminum Solutions        | 5041            | Triview Glass Industries                              |
| 4912            | Prelco Inc.                                | 4988            | Trulite Glass and Aluminum Solutions        | 5042            | Triview Glass Industries                              |
| 4913            | Prelco Inc.                                | 4989            | Trulite Glass and Aluminum Solutions        | 5043            | Triview Glass Industries                              |
| 4914            | Prelco Inc.                                | 4990            | Trulite Glass and Aluminum Solutions        | 5044            | Triview Glass Industries                              |
| 4915            | Prelco Inc.                                | 4991            | Trulite Glass and Aluminum Solutions        | 5045            | Triview Glass Industries                              |
| 4916            | Prelco Inc.                                | 4992            | Trulite Glass and Aluminum Solutions        | 5046            | Triview Glass Industries                              |
| 4917            | Prelco Inc.                                | 4993            | Tweddell's Inc.                             | 5047            | Triview Glass Industries                              |
| 4918            | Troy Systems LLC                           | 4994            | Trulite Glass and Aluminum Solutions - East | 5048            | Triview Glass Industries                              |
| 4919            | Columbia Commercial Bldg Prod.             | 4995            | SAAND Rexdale                               | 5050            | Techni-Glass, Inc.                                    |
| 4920            | Columbia Commercial Bldg Prod.             | 4996            | SAAND Rexdale                               | 5051            | Oldcastle BuildingEnvelope®                           |
| 4921            | Columbia Commercial Bldg Prod.             | 4997            | SAAND Rexdale                               | 5052            | Jiangmen SYP Engineering Glass                        |
| 4922            | Trulite Glass and Aluminum Solutions       | 4998            | SAAND Rexdale                               | 5053            | Jiangmen SYP Engineering Glass                        |
| 4923            | Trulite Glass and Aluminum Solutions       | 4999            | SAAND Rexdale                               | 5054            | Jiangmen SYP Engineering Glass                        |
| 4924            | Glass and Mirror Craft                     | 5000            | SAAND Rexdale                               | 5055            | Jiangmen SYP Engineering Glass                        |
| 4925            | McGrory Glass                              | 5001            | SAAND Rexdale                               | 5056            | Vidrio Bisel S.A. de C.V.                             |
| 4926            | Upstate Glass Tempering Inc.               | 5002            | SAAND Rexdale                               | 5067            | Tai Sheng (Dong Guan) Glass Co.,Ltd                   |
| 4927            | Upstate Glass Tempering Inc.               | 5003            | SAAND Rexdale                               | 5068            | Tai Sheng (Dong Guan) Glass Co.,Ltd                   |
| 4928            | JM Glass                                   | 5004            | SAAND Rexdale                               | 5071            | Grand Glass Windows and Doors Inc.                    |
| 4929            | JM Glass                                   | 5005            | SAAND Rexdale                               | 5076            | Basco Engineered Products                             |
| 4930            | JM Glass                                   | 5006            | SAAND Rexdale                               | 5080            | Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd |
| 4931            | JM Glass                                   | 5007            | SAAND Rexdale                               | 5081            | Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd |
| 4933            | Shanghai Mingte Glass Technology Co., Ltd. | 5008            | SAAND Rexdale                               | 5084            | Aluminum Technology Auxiliary Industries              |
| 4934            | Shanghai Mingte Glass Technology Co., Ltd. | 5009            | Tempco Glass                                | 5085            | Cardinal IG                                           |
| 4935            | Shanghai Mingte Glass Technology Co., Ltd. | 5010            | Tempco Glass                                | 5086            | Cardinal IG                                           |
| 4936            | Changshu Zhouxing Glass Co. Ltd.           | 5011            | Tempco Glass                                | 5087            | Cardinal IG                                           |
| 4949            | SAAND Ottawa                               | 5012            | Tempco Glass                                | 5088            | Cardinal IG                                           |
| 4950            | SAAND Ottawa                               | 5013            | Tempco Glass                                | 5089            | Cardinal IG                                           |
| 4951            | SAAND Ottawa                               | 5014            | EFI                                         | 5090            | Fujian Xihe Sanitary Ware Technology Co., Ltd         |
| 4952            | SAAND Ottawa                               | 5016            | SAGE Electrochromics Inc.                   | 5091            | Fujian Xihe Sanitary Ware Technology Co., Ltd         |
| 4953            | SAAND Ottawa                               | 5017            | Viracon Inc.                                | 5092            | Fujian Xihe Sanitary Ware Technology Co., Ltd         |
| 4954            | SAAND Ottawa                               | 5018            | Anthony International                       | 5093            | Louisville Plate Glass Company                        |
| 4964            | Trulite Glass and Aluminum Solutions       | 5019            | Glas Works, Inc.                            | 5094            | Trulite Glass and Aluminum Solutions                  |
| 4965            | Trulite Glass and Aluminum Solutions       | 5020            | Glas Works, Inc.                            | 5095            | Cardinal CT                                           |
| 4966            | Vidrio Bisel S.A. de C.V.                  | 5021            | Glas Works, Inc.                            | 5096            | Cardinal CT                                           |
| 4967            | Vidrio Bisel S.A. de C.V.                  | 5022            | Columbia Commercial Bldg Prod.              | 5097            | Cardinal CT                                           |
| 4968            | Vidrio Bisel S.A. de C.V.                  | 5023            | Columbia Commercial Bldg Prod.              | 5098            | Cardinal CT                                           |
| 4969            | Vidrio Bisel S.A. de C.V.                  | 5024            | Oldcastle BuildingEnvelope®                 | 5099            | Cardinal CT                                           |
| 4970            | Contract Glass                             | 5025            | Oldcastle BuildingEnvelope®                 | 5100            | Cardinal CT                                           |
| 4971            | Contract Glass                             | 5026            | EFI                                         | 5101            | Cardinal CT - S                                       |
| 4972            | Contract Glass                             | 5027            | Interglass Corp                             | 5102            | Cardinal CT - S                                       |
| 4973            | Contract Glass                             | 5028            | Dongguan Trillion Aluminum Glass Co., Ltd   | 5103            | Cardinal CT - S                                       |
| 4974            | Contract Glass                             | 5029            | Dongguan Trillion Aluminum Glass Co., Ltd   | 5104            | Cardinal CT - S                                       |
| 4975            | Contract Glass                             | 5030            | Dongguan Trillion Aluminum Glass Co., Ltd   | 5105            | Cardinal CT - S                                       |
| 4976            | Trulite Glass and Aluminum Solutions       | 5031            | Dongguan Trillion Aluminum Glass Co., Ltd   | 5106            | Cardinal CT - S                                       |
| 4977            | Trulite Glass and Aluminum Solutions       | 5032            | Interglass Corp                             | 5108            | Tri-Star Glass                                        |
| 4978            | Simonton Windows                           | 5033            | Interglass Corp                             | 5109            | Tri-Star Glass                                        |
| 4979            | Simonton Windows                           | 5034            | Interglass Corp                             |                 |                                                       |
| 4980            | Trulite Glass and Aluminum Solutions       | 5035            | Interglass Corp                             |                 |                                                       |
| 4981            | Trulite Glass and Aluminum Solutions       | 5036            | Interglass Corp                             |                 |                                                       |
| 4982            | Trulite Glass and Aluminum Solutions       |                 |                                             |                 |                                                       |
| 4983            | Trulite Glass and Aluminum Solutions       |                 |                                             |                 |                                                       |

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| <b>SGCC No.</b> |                                                           | <b>SGCC No.</b> |                                                  | <b>SGCC No.</b> |                                                       |
|-----------------|-----------------------------------------------------------|-----------------|--------------------------------------------------|-----------------|-------------------------------------------------------|
| 5110            | Fujiansheng Binchang Metal Products Co., Ltd              | 5178            | TG Changjiang Glass Co., Ltd                     | 5233            | Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd |
| 5111            | Fujiansheng Binchang Metal Products Co., Ltd              | 5179            | TG Changjiang Glass Co., Ltd                     | 5234            | Anthony International                                 |
| 5112            | Tacoma Glass Mfg. Inc.                                    | 5183            | Trulite Glass and Aluminum Solutions             | 5235            | Protective Insulating Glass                           |
| 5116            | Glass and Mirror Craft                                    | 5184            | Trulite Glass and Aluminum Solutions             | 5236            | Protective Insulating Glass                           |
| 5117            | Future Architectural Glass LLC                            | 5185            | Trulite Glass and Aluminum Solutions             | 5237            | Glass Design of Miami, Inc.                           |
| 5118            | Future Architectural Glass LLC                            | 5186            | Trulite Glass and Aluminum Solutions             | 5238            | Wuhan Aozheng Science and Technology Co., Ltd.        |
| 5119            | Interglass Corp                                           | 5187            | Trulite Glass and Aluminum Solutions             | 5239            | Wuhan Aozheng Science and Technology Co., Ltd.        |
| 5120            | Consolidated Armor Products, LLC                          | 5188            | Trulite Glass and Aluminum Solutions             | 5240            | Wuhan Aozheng Science and Technology Co., Ltd.        |
| 5121            | Downey Glass Industries, LLC                              | 5189            | Trulite Glass and Aluminum Solutions             | 5241            | Wuhan Aozheng Science and Technology Co., Ltd.        |
| 5122            | Downey Glass Industries, LLC                              | 5190            | Trulite Glass and Aluminum Solutions             | 5242            | Paragon Tempered Glass                                |
| 5123            | Troy Systems LLC                                          | 5191            | Trulite Glass and Aluminum Solutions             | 5243            | Trulite Glass and Aluminum Solutions                  |
| 5124            | Garibaldi Glass Ind. Inc.                                 | 5192            | Trulite Glass and Aluminum Solutions             | 5245            | Cardinal CT - W                                       |
| 5125            | Garibaldi Glass Ind. Inc.                                 | 5193            | Cardinal LG                                      | 5246            | Cardinal CT - W                                       |
| 5127            | Arlene Stained Glass & Door                               | 5194            | Virginia Glass Products Corp.                    | 5247            | Cardinal CT - W                                       |
| 5128            | GlassFab Tempering Services Inc.                          | 5195            | Jiaxing Joinbath Corporation                     | 5248            | Cardinal CT - W                                       |
| 5129            | Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd | 5196            | Jiaxing Joinbath Corporation                     | 5249            | Cardinal CT - W                                       |
| 5130            | Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd | 5198            | Jiaxing Joinbath Corporation                     | 5250            | Cardinal CT - W                                       |
| 5133            | Guardian Industries Corp.                                 | 5199            | Robover Inc.                                     | 5251            | Wujiang Golden Glass Technologies, Ltd.               |
| 5134            | Trulite Glass and Aluminum Solutions                      | 5200            | Robover Inc.                                     | 5252            | Wujiang Golden Glass Technologies, Ltd.               |
| 5135            | Inkan Ltd                                                 | 5201            | Robover Inc.                                     | 5253            | Wujiang Golden Glass Technologies, Ltd.               |
| 5136            | Inkan Ltd                                                 | 5202            | Robover Inc.                                     | 5254            | Wujiang Golden Glass Technologies, Ltd.               |
| 5137            | Inkan Ltd                                                 | 5203            | Basco Engineered Products                        | 5255            | Wujiang Golden Glass Technologies, Ltd.               |
| 5138            | Inkan Ltd                                                 | 5204            | PPG Inds. Inc.                                   | 5256            | Wujiang Golden Glass Technologies, Ltd.               |
| 5139            | Inkan Ltd                                                 | 5205            | PPG Inds. Inc.                                   | 5257            | Wujiang Golden Glass Technologies, Ltd.               |
| 5140            | Inkan Ltd                                                 | 5206            | PPG Inds. Inc.                                   | 5258            | Wujiang Golden Glass Technologies, Ltd.               |
| 5141            | Qinhuangdao Qicaishi                                      | 5207            | PPG Inds. Inc.                                   | 5259            | Glass Dynamics, Inc.                                  |
| 5142            | Guardian Industries Corp.                                 | 5208            | EFI                                              | 5260            | Dalian Huaying Glass Products Co., Ltd.               |
| 5143            | Glaz-Tech Industries                                      | 5209            | EFI                                              | 5261            | Dalian Huaying Glass Products Co., Ltd.               |
| 5144            | Bendheim Wall Systems                                     | 5210            | EFI                                              | 5262            | McGrory Glass                                         |
| 5145            | Bendheim Wall Systems                                     | 5211            | EFI                                              | 5263            | McGrory Glass                                         |
| 5146            | Jiaxing Joinbath Corporation                              | 5212            | Aluminum Technology Auxiliary Industries         | 5266            | Cardinal CT                                           |
| 5151            | Changshu Xingfu Glass Building Material Co., LTD          | 5213            | SIGCO, Inc.                                      | 5280            | Qinhuangdao Jingxin Glass Co., Ltd.                   |
| 5152            | Changshu Xingfu Glass Building Material Co., LTD          | 5214            | Trulite Glass and Aluminum Solutions             | 5281            | Cardinal CG                                           |
| 5157            | Upstate Glass Tempering Inc.                              | 5215            | Oldcastle BuildingEnvelope®                      | 5283            | American Insulated Glass Inc.                         |
| 5158            | Upstate Glass Tempering Inc.                              | 5216            | Fujian Xihe Sanitary Ware Technology Co., Ltd    | 5284            | American Insulated Glass Inc.                         |
| 5159            | Classy Glass Specialties Co., Ltd                         | 5217            | Fujian Xihe Sanitary Ware Technology Co., Ltd    | 5285            | American Insulated Glass Inc.                         |
| 5160            | Classy Glass Specialties Co., Ltd                         | 5218            | Fujian Xihe Sanitary Ware Technology Co., Ltd    | 5286            | American Insulated Glass Inc.                         |
| 5161            | Classy Glass Specialties Co., Ltd                         | 5219            | Garibaldi Glass Ind. Inc.                        | 5287            | American Insulated Glass Inc.                         |
| 5162            | Classy Glass Specialties Co., Ltd                         | 5220            | Tianjin Northglass Industrial Technical Co., Ltd | 5288            | American Insulated Glass Inc.                         |
| 5163            | Classy Glass Specialties Co., Ltd                         | 5221            | Tianjin Northglass Industrial Technical Co., Ltd | 5289            | American Insulated Glass Inc.                         |
| 5164            | Classy Glass Specialties Co., Ltd                         | 5222            | Berkowitz, J.E.                                  | 5290            | Phoenicia Flat Glass Industries                       |
| 5165            | Tacoma Glass Mfg. Inc.                                    | 5223            | Tianjin Northglass Industrial Technical Co., Ltd | 5292            | Jin Yao Chang Tempered Glass Co., Ltd                 |
| 5166            | Tacoma Glass Mfg. Inc.                                    | 5224            | Cardinal LG Northeast                            | 5293            | Jin Yao Chang Tempered Glass Co., Ltd                 |
| 5167            | Tacoma Glass Mfg. Inc.                                    | 5225            | Cardinal LG Northeast                            |                 |                                                       |
| 5168            | Tacoma Glass Mfg. Inc.                                    | 5226            | Multiver                                         |                 |                                                       |
| 5169            | Classy Glass Specialties Co., Ltd                         | 5227            | Multiver                                         |                 |                                                       |
| 5170            | Classy Glass Specialties Co., Ltd                         | 5228            | Multiver                                         |                 |                                                       |
| 5173            | W. A. Wilson Inc.                                         | 5229            | Nashville Tempered Glass LLC                     |                 |                                                       |
| 5174            | Blue Star Glass Inc.                                      | 5230            | Nashville Tempered Glass LLC                     |                 |                                                       |
| 5175            | Blue Star Glass Inc.                                      | 5231            | Nashville Tempered Glass LLC                     |                 |                                                       |
| 5176            | TG Changjiang Glass Co., Ltd                              | 5232            | Future Architectural Glass LLC                   |                 |                                                       |
| 5177            | TG Changjiang Glass Co., Ltd                              |                 |                                                  |                 |                                                       |

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|-----------------|----------------------------------------------------------------|-----------------|-------------------------------------------------|-----------------|--|
| 5294            | Jin Yao Chang Tempered Glass Co., Ltd                          | 5390            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. |                 |  |
| 5297            | Quaker Window Products, Inc.                                   | 5391            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. |                 |  |
| 5298            | Thompson I.G. LLC.                                             | 5392            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. |                 |  |
| 5299            | Thompson I.G. LLC.                                             |                 |                                                 |                 |  |
| 5300            | Thompson I.G. LLC.                                             | 5393            | Vitemex                                         |                 |  |
| 5301            | Thompson I.G. LLC.                                             | 5394            | Vitemex                                         |                 |  |
| 5302            | Thompson I.G. LLC.                                             | 5395            | Vitemex                                         |                 |  |
| 5303            | Thompson I.G. LLC.                                             | 5407            | Unitex Glass Chengdu Co., Ltd                   |                 |  |
| 5304            | Thompson I.G. LLC.                                             | 5408            | Unitex Glass Chengdu Co., Ltd                   |                 |  |
| 5305            | Thompson I.G. LLC.                                             | 5414            | Unitex Glass Chengdu Co., Ltd                   |                 |  |
| 5306            | Cardinal CG                                                    | 5415            | Jiangyin Mingyang Glass Production              |                 |  |
| 5307            | Trulite Glass and Aluminum Solutions                           | 5416            | Jiangyin Mingyang Glass Production              |                 |  |
| 5308            | ClearEdge Glass                                                | 5417            | Jiangyin Mingyang Glass Production              |                 |  |
| 5310            | ClearEdge Glass                                                | 5418            | Consolidated Armor Products, LLC                |                 |  |
| 5311            | ClearEdge Glass                                                | 5419            | Consolidated Armor Products, LLC                |                 |  |
| 5313            | ClearEdge Glass                                                | 5432            | Trulite Glass and Aluminum Solutions            |                 |  |
| 5314            | ClearEdge Glass                                                | 5433            | Trulite Glass and Aluminum Solutions            |                 |  |
| 5316            | Trulite Glass and Aluminum Solutions                           | 5434            | Trulite Glass and Aluminum Solutions            |                 |  |
| 5317            | Trulite Glass and Aluminum Solutions                           | 5441            | Tri-Star Glass                                  |                 |  |
| 5318            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5319            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5320            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5321            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5322            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5323            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5324            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5325            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5326            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5327            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5328            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5330            | ClearEdge Glass                                                |                 |                                                 |                 |  |
| 5331            | ClearEdge Glass                                                |                 |                                                 |                 |  |
| 5341            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5342            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5343            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5344            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5345            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5346            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5347            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5348            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5350            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5355            | Oldcastle BuildingEnvelope®                                    |                 |                                                 |                 |  |
| 5356            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5357            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5358            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5359            | Trulite Glass and Aluminum Solutions                           |                 |                                                 |                 |  |
| 5364            | Cardinal CT                                                    |                 |                                                 |                 |  |
| 5365            | Texas Tempered, a Trulite Glass and Aluminum Solutions Company |                 |                                                 |                 |  |
| 5370            | Jiaxing Joinbath Corporation                                   |                 |                                                 |                 |  |
| 5383            | Virginia Glass Products Corp.                                  |                 |                                                 |                 |  |
| 5387            | Oldcastle BuildingEnvelope®                                    |                 |                                                 |                 |  |
| 5388            | Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.                |                 |                                                 |                 |  |
| 5389            | Foshan NanHai ZhongKang YiMeiJia Glass 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>Aldora Aluminum and Glass Products, Inc. ; Miramar, FL</b>    |           |                                |      |                   |                       |               |
| 4771                                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG              |                       | U A           | 4715                                                             | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           |
| 4772                                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG             |                       | U A           | 4716                                                             | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 4773                                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG             |                       | U A           | 4717                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| <b>AGC Flat Glass North America ; Greenland, TN</b>                            |           |                                |      |                      |                       |               | 4718                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 598                                                                            | COMP+CAN  | 1/8                            |      | 3.0 TTG              |                       | U A           | 4719                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 955                                                                            | COMP+CAN  | 5/32                           |      | 4.0 TTG              |                       | U A           | 4810                                                             | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           |
| 220                                                                            | COMP+CAN  | 3/16                           |      | 5.0 TTG              |                       | U A           | 4789                                                             | COMPOSITE | (H)                            |      | 12 LTG (lu)(A)(6) | (.090)                | U A           |
| 89                                                                             | COMP+CAN  | 1/4                            |      | 6.0 TTG              |                       | U A           | <b>All Team Glass &amp; Mirror, Ltd. ; Woodbridge, ON Canada</b> |           |                                |      |                   |                       |               |
| 4046                                                                           | COMP+CAN  | 5/16                           |      | 8.0 TTG              |                       | U A           | 1754                                                             | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           |
| 90                                                                             | COMP+CAN  | 3/8                            |      | 10.0 TTG             |                       | U A           | 1755                                                             | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 587                                                                            | COMP+CAN  | 1/8                            |      | 3.0 TPG (s)          |                       | U A           | 1756                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 2980                                                                           | COMP+CAN  | 5/32                           |      | 4.0 TPG (m)          |                       | U A           | 2790                                                             | COMPOSITE | 5/16                           |      | 8.0 TTG           |                       | U A           |
| 1139                                                                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (s)          |                       | U A           | 1757                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| <b>AGC Flat Glass North America ; Quakertown, PA</b>                           |           |                                |      |                      |                       |               | 1758                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 2507                                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG              |                       | U A           | 4355                                                             | COMPOSITE | 5/8                            |      | 16.0 TTG          |                       | U A           |
| 3421                                                                           | COMPOSITE | 5/32                           |      | 4.0 TTG              |                       | U A           | 3656                                                             | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           |
| 2509                                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG              |                       | U A           | <b>Aluminum Technology Auxiliary Industries ; Doha, Qatar</b>    |           |                                |      |                   |                       |               |
| 2666                                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG              |                       | U A           | 5084                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 2510                                                                           | COMPOSITE | 1/8                            |      | 3.0 TPG (m)          |                       | U A           | 5212                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 3698                                                                           | COMPOSITE | 3/16                           |      | 5.0 TPG (m)          |                       | U A           | <b>Alyusuf Thermo Glass W.L.L. ; Manama, Bahrain</b>             |           |                                |      |                   |                       |               |
| <b>AGC Flat Glass North America ; Spring Hill, KS</b>                          |           |                                |      |                      |                       |               | 4495                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 1702                                                                           | COMP+CAN  | 1/8                            |      | 3.0 TTG              |                       | U A           | 4496                                                             | COMPOSITE | 5/16                           |      | 8.0 TTG           |                       | U A           |
| 1703                                                                           | COMP+CAN  | 5/32                           |      | 4.0 TTG              |                       | U A           | 4497                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 1704                                                                           | COMP+CAN  | 3/16                           |      | 5.0 TTG              |                       | U A           | 4498                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 1705                                                                           | COMP+CAN  | 1/4                            |      | 6.0 TTG              |                       | U A           | <b>American Insulated Glass Inc. ; Conley, GA</b>                |           |                                |      |                   |                       |               |
| <b>AGNORA (Architectural Glass North America) ;<br/>Collingwood, ON Canada</b> |           |                                |      |                      |                       |               | 5283                                                             | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           |
| 4883                                                                           | COMP+CAN  | 1/4                            |      | 6.0 TTG              |                       | U A           | 5284                                                             | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 4885                                                                           | COMP+CAN  | 3/8                            |      | 10.0 TTG             |                       | U A           | 5285                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 4884                                                                           | COMP+CAN  | 1/2                            |      | 12.0 TTG             |                       | U A           | 5286                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 4886                                                                           | COMP+CAN  | (H)                            |      | 12+ LTG (b)(A)       | (.030)                | U A           | 5287                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| <b>Al Abbar Architectural Glass ; Dubai, United Arab<br/>Emirates</b>          |           |                                |      |                      |                       |               | 5288                                                             | COMPOSITE | 1/8                            |      | 3.0 TPG (m)       |                       | U A           |
| 4846                                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG              |                       | U A           | 5289                                                             | COMPOSITE | 3/16                           |      | 5.0 TPG (s)       |                       | U A           |
| 3556                                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG              |                       | U A           | <b>American Shower Door ; Los Angeles, CA</b>                    |           |                                |      |                   |                       |               |
| 3557                                                                           | COMPOSITE | 5/16                           |      | 8.0 TTG              |                       | U A           | 4616                                                             | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 3558                                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG             |                       | U A           | 3039                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 4590                                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG             |                       | U A           | 3040                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |
| 3976                                                                           | COMPOSITE | *                              |      | 15.0 TTG (4)         |                       | U A           | 3041                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |
| 3977                                                                           | COMPOSITE | 3/4                            |      | 19.0 TTG             |                       | U A           | 3042                                                             | COMPOSITE | 1/4                            |      | 6.0 TPG (s)       |                       | U A           |
| 3560                                                                           | COMPOSITE | (H)                            |      | 8-16+ LTG (b)(A)     | (.030)                | U A           | 3043                                                             | COMPOSITE | 3/8                            |      | 10.0 TPG (s)      |                       | U A           |
| <b>Aldora Aluminum and Glass Products Inc. ; Charleston,<br/>SC</b>            |           |                                |      |                      |                       |               | <b>Amsco Windows ; Salt Lake City, UT</b>                        |           |                                |      |                   |                       |               |
| 4328                                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG              |                       | U A           | 2578                                                             | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           |
| 4329                                                                           | COMPOSITE | 5/32                           |      | 4.0 TTG              |                       | U A           | 4643                                                             | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           |
| 4330                                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG              |                       | U A           | 2580                                                             | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |
| 4331                                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG              |                       | U A           | 2581                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |
| 4335                                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG             |                       | U A           | 2582                                                             | COMPOSITE | 1/8                            |      | 3.0 TPG (m)       |                       | U A           |
| 4336                                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG             |                       | U A           | 2584                                                             | COMPOSITE | 3/16                           |      | 5.0 TPG (m)       |                       | U A           |
| 4332                                                                           | COMPOSITE | 1/8                            |      | 3.0 TPG (s)          |                       | U A           |                                                                  |           |                                |      |                   |                       |               |
| 4333                                                                           | COMPOSITE | 5/32                           |      | 4.0 TPG (d)          |                       | U A           |                                                                  |           |                                |      |                   |                       |               |
| 4334                                                                           | COMPOSITE | 3/16                           |      | 5.0 TPG (d)          |                       | U A           |                                                                  |           |                                |      |                   |                       |               |
| 4338                                                                           | COMPOSITE | 1/4                            |      | 6.0 TPG (m)          |                       | U A           |                                                                  |           |                                |      |                   |                       |               |
| 4339                                                                           | COMPOSITE | 3/8                            |      | 10.0 TPG (s)         |                       | U A           |                                                                  |           |                                |      |                   |                       |               |
| 4337                                                                           | COMPOSITE | (H)                            |      | 8, 12 LTG (lu)(A)(6) | (.060)                | U A           |                                                                  |           |                                |      |                   |                       |               |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                        | TEST STD  | INCHES (MM)          | TYPE           | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                             | TEST STD  | INCHES (MM)          | TYPE             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|--------------------------------------------------------------|-----------|----------------------|----------------|-----------------------|---------------|---------------------------------------------------|-----------|----------------------|------------------|-----------------------|---------------|
|                                                              |           | (THICKNESS<br>CLASS) |                |                       |               |                                                   |           | (THICKNESS<br>CLASS) |                  |                       |               |
| <b>Anthony International ; Madison, GA</b>                   |           |                      |                |                       |               | <b>Berkowitz, J.E. ; Pedricktown, NJ</b>          |           |                      |                  |                       |               |
| 3249                                                         | COMPOSITE | 1/8                  | 3.0 TTG        |                       | U A           | 4837                                              | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 3027                                                         | COMPOSITE | 5/32                 | 4.0 TTG        |                       | U A           | 2646                                              | COMP+CAN  | 3/8                  | 10.0 TTG         |                       | U A           |
| 2352                                                         | COMPOSITE | 3/16                 | 5.0 TTG        |                       | U A           | 1991                                              | COMP+CAN  | 1/2                  | 12.0 TTG         |                       | U A           |
| 2353                                                         | COMPOSITE | 1/4                  | 6.0 TTG        |                       | U A           | 2647                                              | COMP+CAN  | 3/4                  | 19.0 TTG         |                       | U A           |
| 5234                                                         | COMPOSITE | 5/16                 | 8.0 TTG        |                       | U A           | 5222                                              | COMP+CAN  | (S)                  | 6 LTG (b)(A)     | (.030)                | U A           |
| 2453                                                         | COMPOSITE | 3/8                  | 10.0 TTG       |                       | U A           | 3750                                              | COMP+CAN  | (H)                  | 8-16+ LTG (b)(A) | (.030)                | U A           |
| 5018                                                         | COMPOSITE | 1/2                  | 13.0 TTG       |                       | 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           | 5174                                              | COMPOSITE | 5/8                  | 16.0 TTG         |                       | U A           |
| 999                                                          | ANSI ONLY | 3/16                 | 5.0 TTG        |                       | U A           | 5175                                              | COMPOSITE | 3/4                  | 19.0 TTG         |                       | U A           |
| 1000                                                         | ANSI ONLY | 1/4                  | 6.0 TTG        |                       | U A           | <b>Cameron Glass, Inc. ; Broken Arrow, OK</b>     |           |                      |                  |                       |               |
| <b>Architectural Glass Products, LLC ; St. Louis, MO</b>     |           |                      |                |                       |               | 4832                                              | COMPOSITE | 1/8                  | 3.0 TTG          |                       | U A           |
| 4571                                                         | COMPOSITE | 1/8                  | 3.0 TTG        |                       | U A           | 2501                                              | COMPOSITE | 3/16                 | 5.0 TTG          |                       | U A           |
| 4572                                                         | COMPOSITE | 3/16                 | 5.0 TTG        |                       | U A           | 2455                                              | COMPOSITE | 1/4                  | 6.0 TTG          |                       | U A           |
| 4573                                                         | COMPOSITE | 1/4                  | 6.0 TTG        |                       | U A           | 2032                                              | COMP+CAN  | 3/8                  | 10.0 TTG         |                       | U A           |
| 4574                                                         | COMPOSITE | 3/16                 | 5.0 TPG (s)    |                       | U A           | 2033                                              | COMP+CAN  | 1/2                  | 12.0 TTG         |                       | U A           |
| <b>Arlene Stained Glass &amp; Door ; Houston, TX</b>         |           |                      |                |                       |               | <b>Cardinal CG ; Buford, GA</b>                   |           |                      |                  |                       |               |
| 5127                                                         | COMPOSITE | 1/8                  | 3.0 TTG        |                       | U A           | 1921                                              | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 3583                                                         | COMPOSITE | 3/16                 | 5.0 TTG        |                       | U A           | 1922                                              | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 3584                                                         | COMPOSITE | 1/4                  | 6.0 TTG        |                       | U A           | 1923                                              | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 3585                                                         | COMPOSITE | 5/32                 | 4.0 TPG (s)    |                       | U A           | 1924                                              | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| <b>AVIC Sanxin Co. Ltd. ; Shenzhen, Guangdong, China</b>     |           |                      |                |                       |               | 2146                                              | COMP+CAN  | 1/8                  | 3.0 TPG (s)      |                       | U A           |
| 3567                                                         | COMPOSITE | 1/4                  | 6.0 TTG        |                       | U A           | 4599                                              | COMP+CAN  | 3/16                 | 5.0 TPG (s)      |                       | U A           |
| 3568                                                         | COMPOSITE | 5/16                 | 8.0 TTG        |                       | U A           | <b>Cardinal CG ; Casa Grande, AZ</b>              |           |                      |                  |                       |               |
| 3569                                                         | COMPOSITE | 3/8                  | 10.0 TTG       |                       | U A           | 2878                                              | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 3570                                                         | COMPOSITE | 1/2                  | 12.0 TTG       |                       | U A           | 2879                                              | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 3571                                                         | COMPOSITE | *                    | 15.0 TTG (3)   |                       | U A           | 2880                                              | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 3572                                                         | COMPOSITE | 3/4                  | 19.0 TTG       |                       | U A           | 2881                                              | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 3573                                                         | COMPOSITE | (H)                  | 12+ LTG (b)(A) | (.030)                | U A           | 4103                                              | COMP+CAN  | 1/8                  | 3.0 TPG (s)      |                       | U A           |
| <b>Basco Engineered Products ; Hamilton, OH</b>              |           |                      |                |                       |               | 4104                                              | COMP+CAN  | 5/32                 | 4.0 TPG (d)      |                       | U A           |
| 4139                                                         | COMPOSITE | 1/8                  | 3.0 TTG        |                       | U A           | 4105                                              | COMP+CAN  | 3/16                 | 5.0 TPG (s)      |                       | U A           |
| 4724                                                         | COMPOSITE | 3/16                 | 5.0 TTG        |                       | U A           | <b>Cardinal CG ; Galt, CA</b>                     |           |                      |                  |                       |               |
| 3810                                                         | COMPOSITE | 1/4                  | 6.0 TTG        |                       | U A           | 2357                                              | COMPOSITE | 1/8                  | 3.0 TTG          |                       | U A           |
| 3811                                                         | COMPOSITE | 3/8                  | 10.0 TTG       |                       | U A           | 2358                                              | COMPOSITE | 5/32                 | 4.0 TTG          |                       | U A           |
| 3812                                                         | COMPOSITE | 1/2                  | 12.0 TTG       |                       | U A           | 2359                                              | COMPOSITE | 3/16                 | 5.0 TTG          |                       | U A           |
| 5076                                                         | COMPOSITE | 3/4                  | 19.0 TTG       |                       | U A           | 2360                                              | COMPOSITE | 1/4                  | 6.0 TTG          |                       | U A           |
| 4688                                                         | COMPOSITE | 3/16                 | 5.0 TPG (m)    |                       | U A           | 3599                                              | COMPOSITE | 1/8                  | 3.0 TPG (s)      |                       | U A           |
| 4689                                                         | COMPOSITE | 1/4                  | 6.0 TPG (s)    |                       | U A           | 4347                                              | COMPOSITE | 5/32                 | 4.0 TPG (m)      |                       | U A           |
| 5203                                                         | COMPOSITE | 3/8                  | 10.0 TPG (m)   |                       | U A           | 3601                                              | COMPOSITE | 3/16                 | 5.0 TPG (m)      |                       | U A           |
| <b>Bendheim Wall Systems ; Wunsiedel-Holenbrunn, Germany</b> |           |                      |                |                       |               | <b>Cardinal CG ; Loveland, CO</b>                 |           |                      |                  |                       |               |
| 5145                                                         | COMPOSITE | *                    | 6.0 TBP (s)(2) | 20x76 A               |               | 3579                                              | COMPOSITE | 1/8                  | 3.0 TTG          |                       | U A           |
| 5144                                                         | COMPOSITE | *                    | 7.0 TBP (s)(2) | 16x76 A               |               | 3580                                              | COMPOSITE | 5/32                 | 4.0 TTG          |                       | U A           |
| 2570                                                         | COMPOSITE | *                    | 6.0 TBG (2)    | 20x76 A               |               | 3581                                              | COMPOSITE | 3/16                 | 5.0 TTG          |                       | U A           |
| 2569                                                         | COMPOSITE | *                    | 7.0 TBG (2)    | 16x76 A               |               | 3555                                              | COMPOSITE | 1/4                  | 6.0 TTG          |                       | U A           |
|                                                              |           |                      |                |                       |               | 4343                                              | COMPOSITE | 1/8                  | 3.0 TPG (s)      |                       | U A           |
|                                                              |           |                      |                |                       |               | 4344                                              | COMPOSITE | 5/32                 | 4.0 TPG (d)      |                       | U A           |
|                                                              |           |                      |                |                       |               | 4345                                              | COMPOSITE | 3/16                 | 5.0 TPG (m)      |                       | U A           |



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| SGCC#                                  | TEST STD  | INCHES (MM)       | TYPE        | MAX SIZE<br>CERTIFIED CLASS | ANSI | SGCC#                               | TEST STD  | INCHES (MM)       | TYPE        | MAX SIZE<br>CERTIFIED CLASS | ANSI |
|----------------------------------------|-----------|-------------------|-------------|-----------------------------|------|-------------------------------------|-----------|-------------------|-------------|-----------------------------|------|
|                                        |           | (THICKNESS CLASS) |             |                             |      |                                     |           | (THICKNESS CLASS) |             |                             |      |
| <b>Cardinal CG ; Mazomanie, WI</b>     |           |                   |             |                             |      | <b>Cardinal CT ; Easton, PA</b>     |           |                   |             |                             |      |
| 4780                                   | COMP+CAN  | 1/8               | 3.0 TTG     |                             | U A  | 4756                                | COMPOSITE | 1/8               | 3.0 TTG     |                             | U A  |
| 4781                                   | COMP+CAN  | 5/32              | 4.0 TTG     |                             | U A  | 4757                                | COMPOSITE | 5/32              | 4.0 TTG     |                             | U A  |
| 5306                                   | COMP+CAN  | 3/16              | 5.0 TTG     |                             | U A  | 4758                                | COMPOSITE | 3/16              | 5.0 TTG     |                             | U A  |
| 4783                                   | COMP+CAN  | 1/4               | 6.0 TTG     |                             | U A  | 4759                                | COMPOSITE | 1/8               | 3.0 TPG (s) |                             | U A  |
| <b>Cardinal CG ; Moreno Valley, CA</b> |           |                   |             |                             |      | 4760                                | COMPOSITE | 5/32              | 4.0 TPG (d) |                             | U A  |
| 2293                                   | CPSC ONLY | 1/8               | 3.0 TTG     |                             | U    | 4761                                | COMPOSITE | 3/16              | 5.0 TPG (d) |                             | U A  |
| 2294                                   | CPSC ONLY | 5/32              | 4.0 TTG     |                             | U    | <b>Cardinal CT ; Mount Airy, NC</b> |           |                   |             |                             |      |
| 2295                                   | CPSC ONLY | 3/16              | 5.0 TTG     |                             | U    | 4578                                | COMPOSITE | 1/8               | 3.0 TTG     |                             | U A  |
| 2296                                   | CPSC ONLY | 1/4               | 6.0 TTG     |                             | U    | 4579                                | COMPOSITE | 5/32              | 4.0 TTG     |                             | U A  |
| <b>Cardinal CG ; Northfield, MN</b>    |           |                   |             |                             |      | 4580                                | COMPOSITE | 3/16              | 5.0 TTG     |                             | U A  |
| 1985                                   | COMP+CAN  | 1/8               | 3.0 TTG     |                             | U A  | 5266                                | COMPOSITE | 1/4               | 6.0 TTG     |                             | U A  |
| 1986                                   | COMP+CAN  | 5/32              | 4.0 TTG     |                             | U A  | 4581                                | COMPOSITE | 1/8               | 3.0 TPG (s) |                             | U A  |
| 1987                                   | COMP+CAN  | 3/16              | 5.0 TTG     |                             | U A  | 4742                                | COMPOSITE | 5/32              | 4.0 TPG (m) |                             | U A  |
| 1988                                   | COMP+CAN  | 1/4               | 6.0 TTG     |                             | U A  | 4582                                | COMPOSITE | 3/16              | 5.0 TPG (s) |                             | U A  |
| 4775                                   | COMP+CAN  | 5/16              | 8.0 TTG     |                             | U A  | <b>Cardinal CT ; Utica, OH</b>      |           |                   |             |                             |      |
| 4137                                   | COMP+CAN  | 3/8               | 10.0 TTG    |                             | U A  | 4620                                | COMPOSITE | 1/8               | 3.0 TTG     |                             | U A  |
| 2011                                   | COMP+CAN  | 1/8               | 3.0 TPG (s) |                             | U A  | 4621                                | COMPOSITE | 5/32              | 4.0 TTG     |                             | U A  |
| 2012                                   | COMP+CAN  | 5/32              | 4.0 TPG (s) |                             | U A  | 4622                                | COMPOSITE | 3/16              | 5.0 TTG     |                             | U A  |
| 2013                                   | COMP+CAN  | 3/16              | 5.0 TPG (s) |                             | U A  | 4623                                | COMPOSITE | 1/8               | 3.0 TPG (s) |                             | U A  |
| <b>Cardinal CG ; Spring Green, WI</b>  |           |                   |             |                             |      | 4624                                | COMPOSITE | 5/32              | 4.0 TPG (s) |                             | U A  |
| 2067                                   | COMP+CAN  | 1/8               | 3.0 TTG     |                             | U A  | 4625                                | COMPOSITE | 3/16              | 5.0 TPG (s) |                             | U A  |
| 2068                                   | COMP+CAN  | 5/32              | 4.0 TTG     |                             | U A  | <b>Cardinal CT - S ; Irving TX</b>  |           |                   |             |                             |      |
| 2069                                   | COMP+CAN  | 3/16              | 5.0 TTG     |                             | U A  | 5101                                | COMPOSITE | 1/8               | 3.0 TTG     |                             | U A  |
| 2070                                   | COMP+CAN  | 1/4               | 6.0 TTG     |                             | U A  | 5102                                | COMPOSITE | 5/32              | 4.0 TTG     |                             | U A  |
| 5281                                   | COMP+CAN  | 5/16              | 8.0 TTG     |                             | U A  | 5103                                | COMPOSITE | 3/16              | 5.0 TTG     |                             | U A  |
| 2071                                   | COMP+CAN  | 1/8               | 3.0 TPG (s) |                             | U A  | 5104                                | COMPOSITE | 1/4               | 6.0 TTG     |                             | U A  |
| <b>Cardinal CG ; Tumwater, WA</b>      |           |                   |             |                             |      | 5105                                | COMPOSITE | 1/8               | 3.0 TPG (s) |                             | U A  |
| 2007                                   | COMP+CAN  | 1/8               | 3.0 TTG     |                             | U A  | 5106                                | COMPOSITE | 3/16              | 5.0 TPG (d) |                             | U A  |
| 2008                                   | COMP+CAN  | 5/32              | 4.0 TTG     |                             | U A  | <b>Cardinal CT - W ; Irving TX</b>  |           |                   |             |                             |      |
| 2009                                   | COMP+CAN  | 3/16              | 5.0 TTG     |                             | U A  | 5245                                | COMPOSITE | 1/8"              | 3.0 TTG     |                             | U A  |
| 2010                                   | COMP+CAN  | 1/4               | 6.0 TTG     |                             | U A  | 5246                                | COMPOSITE | 5/32"             | 4.0 TTG     |                             | U A  |
| 2954                                   | COMP+CAN  | 1/8               | 3.0 TPG (s) |                             | U A  | 5247                                | COMPOSITE | 3/16              | 5.0 TTG     |                             | U A  |
| 2955                                   | COMP+CAN  | 5/32              | 4.0 TPG (d) |                             | U A  | 5248                                | COMPOSITE | 1/4"              | 6.0 TTG     |                             | U A  |
| 2956                                   | COMP+CAN  | 3/16              | 5.0 TPG (m) |                             | U A  | 5249                                | COMPOSITE | 1/8               | 3.0 TPG (s) |                             | U A  |
| <b>Cardinal CG ; Waxahachie, TX</b>    |           |                   |             |                             |      | 5250                                | COMPOSITE | 3/16              | 5.0 TPG (d) |                             | U A  |
| 2699                                   | COMP+CAN  | 1/8               | 3.0 TTG     |                             | U A  | <b>Cardinal FG ; Durant, OK</b>     |           |                   |             |                             |      |
| 2700                                   | COMP+CAN  | 5/32              | 4.0 TTG     |                             | U A  | 2909                                | COMP+CAN  | 1/8               | 3.0 TTG     |                             | U A  |
| 2701                                   | COMP+CAN  | 3/16              | 5.0 TTG     |                             | U A  | 2910                                | COMP+CAN  | 5/32              | 4.0 TTG     |                             | U A  |
| 2702                                   | COMP+CAN  | 1/4               | 6.0 TTG     |                             | U A  | 2911                                | COMP+CAN  | 3/16              | 5.0 TTG     |                             | U A  |
| 4047                                   | COMP+CAN  | 5/32              | 4.0 TPG (m) |                             | U A  | 2912                                | COMP+CAN  | 1/4               | 6.0 TTG     |                             | U A  |
| 2705                                   | COMP+CAN  | 3/16              | 5.0 TPG (m) |                             | U A  | <b>Cardinal IG ; Fargo, ND</b>      |           |                   |             |                             |      |
| <b>Cardinal CT ; Adel, GA</b>          |           |                   |             |                             |      | 2235                                | COMP+CAN  | 1/8               | 3.0 TTG     |                             | U A  |
| 5095                                   | COMPOSITE | 1/8               | 3.0 TTG     |                             | U A  | 2234                                | COMP+CAN  | 5/32              | 4.0 TTG     |                             | U A  |
| 5096                                   | COMPOSITE | 5/32              | 4.0 TTG     |                             | U A  | 2233                                | COMP+CAN  | 3/16              | 5.0 TTG     |                             | U A  |
| 5097                                   | COMPOSITE | 3/16              | 5.0 TTG     |                             | U A  | 2232                                | COMP+CAN  | 1/4               | 6.0 TTG     |                             | U A  |
| 5364                                   | COMPOSITE | 1/4               | 6.0 TTG     |                             | U A  | 2231                                | COMP+CAN  | 1/8               | 3.0 TPG (s) |                             | U A  |
| 5098                                   | COMPOSITE | 1/8               | 3.0 TPG (d) |                             | U A  | 2285                                | COMP+CAN  | 5/32              | 4.0 TPG (m) |                             | U A  |
| 5099                                   | COMPOSITE | 5/32              | 4.0 TPG (d) |                             | U A  | 2286                                | COMP+CAN  | 3/16              | 5.0 TPG (s) |                             | U A  |
| 5100                                   | COMPOSITE | 3/16              | 5.0 TPG (d) |                             | U A  |                                     |           |                   |             |                             |      |

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| SGCC#                                 | TEST STD  | INCHES (MM)          | TYPE        | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                      | TEST STD  | INCHES (MM)          | TYPE             | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|---------------------------------------|-----------|----------------------|-------------|-----------------------|---------------|--------------------------------------------|-----------|----------------------|------------------|-----------------------|---------------|
|                                       |           | (THICKNESS<br>CLASS) |             |                       |               |                                            |           | (THICKNESS<br>CLASS) |                  |                       |               |
| <b>Cardinal IG ; Fremont, IN</b>      |           |                      |             |                       |               | <b>Cardinal IG ; Vinton, VA</b>            |           |                      |                  |                       |               |
| 2176                                  | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | 2919                                       | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 2177                                  | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 2920                                       | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 2178                                  | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 2921                                       | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 2179                                  | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 2922                                       | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 2203                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s) |                       | U A           | 2923                                       | COMP+CAN  | 1/8                  | 3.0 TPG (s)      |                       | U A           |
| 2204                                  | COMP+CAN  | 5/32                 | 4.0 TPG (d) |                       | U A           | 2924                                       | COMP+CAN  | 5/32                 | 4.0 TPG (d)      |                       | U A           |
| 2205                                  | COMP+CAN  | 3/16                 | 5.0 TPG (s) |                       | U A           | 3619                                       | COMP+CAN  | 3/16                 | 5.0 TPG (s)      |                       | U A           |
| <b>Cardinal IG ; Greenfield, IA</b>   |           |                      |             |                       |               | <b>Cardinal IG ; Waxahachie, TX</b>        |           |                      |                  |                       |               |
| 1827                                  | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | 2328                                       | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 1828                                  | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 2329                                       | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 1829                                  | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 2330                                       | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 1830                                  | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 2331                                       | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 1841                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s) |                       | U A           | 2397                                       | COMP+CAN  | 1/8                  | 3.0 TPG (m)      |                       | U A           |
| 1842                                  | COMP+CAN  | 5/32                 | 4.0 TPG (d) |                       | U A           | 4091                                       | COMP+CAN  | 5/32                 | 4.0 TPG (d)      |                       | U A           |
| 1843                                  | COMP+CAN  | 3/16                 | 5.0 TPG (s) |                       | U A           | 2399                                       | COMP+CAN  | 3/16                 | 5.0 TPG (m)      |                       | U A           |
| <b>Cardinal IG ; Hood River, OR</b>   |           |                      |             |                       |               | <b>Cardinal LG ; Amery, WI</b>             |           |                      |                  |                       |               |
| 2831                                  | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | 5193                                       | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 2858                                  | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 4841                                       | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 2833                                  | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 4842                                       | COMP+CAN  | 5/16                 | 8.0 TTG          |                       | U A           |
| 2834                                  | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 4843                                       | COMP+CAN  | 3/8                  | 10.0 TTG         |                       | U A           |
| 2857                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s) |                       | U A           | 4844                                       | COMP+CAN  | 1/2                  | 12.0 TTG         |                       | U A           |
| 4836                                  | COMP+CAN  | 5/32                 | 4.0 TPG (d) |                       | U A           | 2976                                       | COMP+CAN  | (S)                  | 5-6 LTG (b)(A)   | (.030)                | U A           |
| 2859                                  | COMP+CAN  | 3/16                 | 5.0 TPG (m) |                       | U A           | 4350                                       | COMP+CAN  | (S)                  | 5-6 LTG (ip)(A)  | (.035)                | U A           |
| <b>Cardinal IG ; Los Angeles, CA</b>  |           |                      |             |                       |               | 4120                                       | COMP+CAN  | (S)                  | 5 LTG (b)(A)     | (.015)(C1)            | U B           |
| 5085                                  | COMPOSITE | 1/8                  | 3.0 TTG     |                       | U A           | 2462                                       | COMP+CAN  | (H)                  | 8-12 LTG (b)(A)  | (.030)                | U A           |
| 5086                                  | COMPOSITE | 5/32                 | 4.0 TTG     |                       | U A           | 4351                                       | COMP+CAN  | (H)                  | 8-12 LTG (ip)(A) | (.035)                | U A           |
| 5087                                  | COMPOSITE | 3/16                 | 5.0 TTG     |                       | U A           | <b>Cardinal LG ; Ocala, FL</b>             |           |                      |                  |                       |               |
| 5088                                  | COMPOSITE | 1/8                  | 3.0 TPG (s) |                       | U A           | 3505                                       | COMPOSITE | 1/8                  | 3.0 TTG          |                       | U A           |
| 5089                                  | COMPOSITE | 3/16                 | 5.0 TPG (m) |                       | U A           | 3506                                       | COMPOSITE | 5/32                 | 4.0 TTG          |                       | U A           |
| <b>Cardinal IG ; Mountain Top, PA</b> |           |                      |             |                       |               | 3507                                       | COMPOSITE | 3/16                 | 5.0 TTG          |                       | U A           |
| 3068                                  | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | 3508                                       | COMPOSITE | 1/4                  | 6.0 TTG          |                       | U A           |
| 3069                                  | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 4584                                       | COMPOSITE | 1/8                  | 3.0 TPG (m)      |                       | U A           |
| 3070                                  | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 4587                                       | COMPOSITE | 1/4                  | 6.0 TPG (s)      |                       | U A           |
| 3071                                  | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 4361                                       | COMPOSITE | (S)                  | 5-6 LTG (ip)(A)  | (.035)                | U A           |
| 3073                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s) |                       | U A           | 3509                                       | COMPOSITE | (S)                  | 6 LTG (b)(A)     | (.030)                | U A           |
| 3115                                  | COMP+CAN  | 5/32                 | 4.0 TPG (s) |                       | U A           | 4362                                       | COMPOSITE | (H)                  | 8-12 LTG (ip)(A) | (.035)                | U A           |
| 3072                                  | COMP+CAN  | 3/16                 | 5.0 TPG (m) |                       | U A           | 3510                                       | COMPOSITE | (H)                  | 8-12 LTG (b)(A)  | (.030)                | U A           |
| <b>Cardinal IG ; Spring Green, WI</b> |           |                      |             |                       |               | <b>Cardinal LG Northeast ; Jessup, PA</b>  |           |                      |                  |                       |               |
| 1831                                  | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | 5224                                       | COMP+CAN  | (S)                  | 5-6 LTG (b)(A)   | (.030)                | U A           |
| 1832                                  | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 5225                                       | COMP+CAN  | (H)                  | 8-12 LTG (b)(A)  | (.030)                | U A           |
| 1833                                  | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | <b>Cardinal Tempering ; Louisville, KY</b> |           |                      |                  |                       |               |
| 1834                                  | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 3871                                       | COMPOSITE | 5/32                 | 4.0 TTG          |                       | U A           |
| 1844                                  | COMP+CAN  | 1/8                  | 3.0 TPG (s) |                       | U A           | 3872                                       | COMPOSITE | 3/16                 | 5.0 TTG          |                       | U A           |
| 1845                                  | COMP+CAN  | 5/32                 | 4.0 TPG (m) |                       | U A           | 3873                                       | COMPOSITE | 1/4                  | 6.0 TTG          |                       | U A           |
| 1846                                  | COMP+CAN  | 3/16                 | 5.0 TPG (s) |                       | U A           | 3874                                       | COMPOSITE | 3/8                  | 10.0 TTG         |                       | U A           |
| <b>Cardinal IG ; Tomah, WI</b>        |           |                      |             |                       |               | 3875                                       | COMPOSITE | 1/2                  | 12.0 TTG         |                       | U A           |
| 2317                                  | COMP+CAN  | 1/8                  | 3.0 TTG     |                       | U A           | <b>Cardinal TG ; Chehalis, WA</b>          |           |                      |                  |                       |               |
| 2318                                  | COMP+CAN  | 5/32                 | 4.0 TTG     |                       | U A           | 3455                                       | COMP+CAN  | 1/8                  | 3.0 TTG          |                       | U A           |
| 2319                                  | COMP+CAN  | 3/16                 | 5.0 TTG     |                       | U A           | 3456                                       | COMP+CAN  | 5/32                 | 4.0 TTG          |                       | U A           |
| 2320                                  | COMP+CAN  | 1/4                  | 6.0 TTG     |                       | U A           | 3458                                       | COMP+CAN  | 3/16                 | 5.0 TTG          |                       | U A           |
| 2321                                  | COMP+CAN  | 1/8                  | 3.0 TPG (m) |                       | U A           | 3459                                       | COMP+CAN  | 1/4                  | 6.0 TTG          |                       | U A           |
| 2322                                  | COMP+CAN  | 5/32                 | 4.0 TPG (d) |                       | U A           |                                            |           |                      |                  |                       |               |
| 2323                                  | COMP+CAN  | 3/16                 | 5.0 TPG (d) |                       | U A           |                                            |           |                      |                  |                       |               |

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| SGCC#                                                                              | TEST STD  | INCHES (MM)       | TYPE           | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                        | TEST STD  | INCHES (MM)       | TYPE              | MAX SIZE CERTIFIED | ANSI CLASS |
|------------------------------------------------------------------------------------|-----------|-------------------|----------------|--------------------|------------|--------------------------------------------------------------|-----------|-------------------|-------------------|--------------------|------------|
|                                                                                    |           | (THICKNESS CLASS) |                |                    |            |                                                              |           | (THICKNESS CLASS) |                   |                    |            |
| <b>Cardinal TG ; Tomah, WI</b>                                                     |           |                   |                |                    |            | <b>Commercial Insulating Glass Co. ; Cumberland City, TN</b> |           |                   |                   |                    |            |
| 1804                                                                               | COMP+CAN  | 1/8               | 3.0 TTG        |                    | U A        | 3806                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| 1805                                                                               | COMP+CAN  | 5/32              | 4.0 TTG        |                    | U A        | 3807                                                         | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 1806                                                                               | COMP+CAN  | 3/16              | 5.0 TTG        |                    | U A        | 3808                                                         | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 1807                                                                               | COMP+CAN  | 1/4               | 6.0 TTG        |                    | U A        | <b>Commercial Insulating Glass Co. ; Sarasota, FL</b>        |           |                   |                   |                    |            |
| 4881                                                                               | COMP+CAN  | 5/16              | 8.0 TTG        |                    | U A        | 1889                                                         | COMPOSITE | 1/8               | 3.0 TTG           | 30x76              | A          |
| <b>Changshu Hard Glass Co., Ltd. ; Changshu, Jiangsu, China</b>                    |           |                   |                |                    |            | 1890                                                         | COMPOSITE | 3/16              | 5.0 TTG           | 30x76              | A          |
| 2904                                                                               | COMPOSITE | 1/8               | 3.0 TTG        |                    | U A        | 1891                                                         | COMPOSITE | 1/4               | 6.0 TTG           | 30x76              | A          |
| 2987                                                                               | COMPOSITE | 5/32              | 4.0 TTG        |                    | U A        | <b>Consolidated Armor Products, LLC ; Addison, TX</b>        |           |                   |                   |                    |            |
| 2988                                                                               | COMPOSITE | 3/16              | 5.0 TTG        |                    | U A        | 5418                                                         | COMP+CAN  | (S)               | 6 LTG (b)(A)      | (.030)             | U A        |
| <b>Changshu Xingfu Glass Building Material Co., LTD ; Changshu, Jiangsu, China</b> |           |                   |                |                    |            | 5120                                                         | COMP+CAN  | (H)               | 8-16+ LTG (b)(A)  | (.030)             | U A        |
| 4657                                                                               | COMPOSITE | 1/8               | 3.0 TTG        |                    | U A        | 5419                                                         | COMP+CAN  | (H)               | 10-16+ LTG (b)(A) | (.030)             | U A        |
| 5151                                                                               | COMPOSITE | 5/16              | 8.0 TTG        |                    | U A        | <b>Consolidated Glass Corp. ; New Castle, PA</b>             |           |                   |                   |                    |            |
| 5152                                                                               | COMPOSITE | 3/8               | 10.0 TTG       |                    | U A        | 1998                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| <b>Changshu Zhongxin Bldg. Mat. Co. ; Changshu City, China</b>                     |           |                   |                |                    |            | 1999                                                         | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        |
| 2432                                                                               | COMP+CAN  | 1/8               | 3.0 TTG        |                    | U A        | 2005                                                         | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 4363                                                                               | COMP+CAN  | (H)               | 8 LTG (b)(A)   | (.090)             | U A        | 2002                                                         | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| <b>Changshu Zhouxing Glass Co. Ltd. ; Changshu, Jiangsu Province, China</b>        |           |                   |                |                    |            | 3635                                                         | COMPOSITE | 5/16              | 8.0 TTG           |                    | U A        |
| 4936                                                                               | COMPOSITE | 1/8               | 3.0 TTG        |                    | U          | 2003                                                         | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        |
| <b>Chicago Tempered Glass, Inc. ; Chicago, IL</b>                                  |           |                   |                |                    |            | 2004                                                         | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        |
| 3086                                                                               | COMPOSITE | 5/32              | 4.0 TTG        |                    | U A        | 2355                                                         | COMPOSITE | 5/32              | 4.0 TPG (m)       |                    | U A        |
| 3087                                                                               | COMPOSITE | 3/16              | 5.0 TTG        |                    | U A        | 2354                                                         | COMPOSITE | 3/16              | 5.0 TPG (m)       |                    | U A        |
| 3088                                                                               | COMPOSITE | 1/4               | 6.0 TTG        |                    | U A        | 4714                                                         | COMPOSITE | 1/4               | 6.0 TPG (m)       |                    | U A        |
| 3089                                                                               | COMPOSITE | 3/8               | 10.0 TTG       |                    | U A        | 4785                                                         | COMPOSITE | 3/8               | 10.0 TPG (s)      |                    | U A        |
| 3090                                                                               | COMPOSITE | 1/2               | 12.0 TTG       |                    | U A        | <b>Contour Industries, Inc. ; Surgoinsville, TN</b>          |           |                   |                   |                    |            |
| <b>Classy Glass Specialties Co., Ltd ; Dongguan, Guangdong</b>                     |           |                   |                |                    |            | 1680                                                         | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        |
| 5159                                                                               | COMPOSITE | 1/4               | 6.0 TTG        |                    | U A        | 4285                                                         | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        |
| 5160                                                                               | COMPOSITE | 5/16              | 8.0 TTG        |                    | U A        | 1678                                                         | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        |
| 5161                                                                               | COMPOSITE | 3/8               | 10.0 TTG       |                    | U A        | 1677                                                         | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        |
| 5162                                                                               | COMPOSITE | 1/2               | 12.0 TTG       |                    | U A        | 4701                                                         | COMP+CAN  | 5/16              | 8.0 TTG           |                    | U A        |
| 5163                                                                               | COMPOSITE | *                 | 15.0 TTG (4)   |                    | U A        | 4702                                                         | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        |
| 5164                                                                               | COMPOSITE | 3/4               | 19.0 TTG       |                    | U A        | 4703                                                         | COMP+CAN  | 1/8               | 3.0 TPG (s)       |                    | U A        |
| 5169                                                                               | COMPOSITE | (H)               | 12 LTG (b)(A)  | (.030)             | U A        | 4704                                                         | COMP+CAN  | 5/32              | 4.0 TPG (s)       |                    | U A        |
| 5170                                                                               | COMPOSITE | (H)               | 25+ LTG (b)(A) | (.060)             | U A        | 4705                                                         | COMP+CAN  | 3/16              | 5.0 TPG (s)       |                    | U A        |
| <b>ClearEdge Glass ; Baton Rouge, LA</b>                                           |           |                   |                |                    |            | <b>Contract Glass ; Wilmington, MA</b>                       |           |                   |                   |                    |            |
| 5308                                                                               | COMPOSITE | 1/8               | 3.0 TTG        |                    | U A        | 4970                                                         | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| 5310                                                                               | COMPOSITE | 3/16              | 5.0 TTG        |                    | U A        | 4971                                                         | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        |
| 5311                                                                               | COMPOSITE | 1/4               | 6.0 TTG        |                    | U A        | 4972                                                         | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 5313                                                                               | COMPOSITE | 3/8               | 10.0 TTG       |                    | U A        | 4973                                                         | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 5314                                                                               | COMPOSITE | 1/2               | 12.0 TTG       |                    | U A        | 4974                                                         | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        |
| 5330                                                                               | COMPOSITE | 5/32              | 4.0 TPG (m)    |                    | U A        | 4975                                                         | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        |
| 5331                                                                               | COMPOSITE | 3/16              | 5.0 TPG (s)    |                    | U A        | <b>Contractors Wardrobe ; Valencia, CA</b>                   |           |                   |                   |                    |            |
| <b>Cleer Vision Tempered Glass ; Elkhart, IN</b>                                   |           |                   |                |                    |            | 3464                                                         | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        |
| 4546                                                                               | COMPOSITE | 1/8               | 3.0 TTG        |                    | U A        | 3465                                                         | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        |
| 4547                                                                               | COMPOSITE | 5/32              | 4.0 TTG        |                    | U A        | 3466                                                         | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        |
| <b>Columbia Commercial Bldg Prod. ; Rockwall, TX</b>                               |           |                   |                |                    |            | 3467                                                         | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        |
| 4919                                                                               | COMP+CAN  | 1/8               | 3.0 TTG        |                    | U A        | 3468                                                         | COMP+CAN  | 5/16              | 8.0 TTG           |                    | U A        |
| 4920                                                                               | COMP+CAN  | 3/16              | 5.0 TTG        |                    | U A        | 3469                                                         | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        |
| 4921                                                                               | COMP+CAN  | 1/4               | 6.0 TTG        |                    | U A        | 3470                                                         | COMP+CAN  | 1/2               | 12.0 TTG          |                    | U A        |
| 5022                                                                               | COMP+CAN  | 3/8               | 10.0 TTG       |                    | U A        | 3472                                                         | COMP+CAN  | 3/4               | 19.0 TTG          |                    | U A        |
| 5023                                                                               | COMP+CAN  | 1/2               | 12.0 TTG       |                    | U A        | 3473                                                         | COMP+CAN  | 1/8               | 3.0 TPG (m)       |                    | U A        |
|                                                                                    |           |                   |                |                    |            | 3474                                                         | COMP+CAN  | 5/32              | 4.0 TPG (d)       |                    | U A        |
|                                                                                    |           |                   |                |                    |            | 3475                                                         | COMP+CAN  | 3/16              | 5.0 TPG (d)       |                    | U A        |
|                                                                                    |           |                   |                |                    |            | 3476                                                         | COMP+CAN  | 1/4               | 6.0 TPG (m)       |                    | U A        |
|                                                                                    |           |                   |                |                    |            | 3477                                                         | COMP+CAN  | 3/8               | 10.0 TPG (s)      |                    | U A        |

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| SGCC#                                                                     | TEST STD  | INCHES (MM)       | TYPE         | MAX SIZE<br>CERTIFIED CLASS | ANSI | SGCC#                                                                          | TEST STD  | INCHES (MM)       | TYPE            | MAX SIZE<br>CERTIFIED CLASS | ANSI |
|---------------------------------------------------------------------------|-----------|-------------------|--------------|-----------------------------|------|--------------------------------------------------------------------------------|-----------|-------------------|-----------------|-----------------------------|------|
|                                                                           |           | (THICKNESS CLASS) |              |                             |      |                                                                                |           | (THICKNESS CLASS) |                 |                             |      |
| <b>Coral Industries Glass Division ; Tuscaloosa, AL</b>                   |           |                   |              |                             |      | <b>Diamond Sea Glaze ; Langley, BC Canada</b>                                  |           |                   |                 |                             |      |
| 3420                                                                      | COMPOSITE | 1/8               | 3.0 TTG      |                             | U A  | 4499                                                                           | COMPOSITE | 5/32              | 4.0 TTG         |                             | U A  |
| 1910                                                                      | COMPOSITE | 3/16              | 5.0 TTG      |                             | U A  | 4500                                                                           | COMPOSITE | 3/16              | 5.0 TTG         |                             | U A  |
| 1911                                                                      | COMPOSITE | 1/4               | 6.0 TTG      |                             | U A  | 4501                                                                           | COMPOSITE | 1/4               | 6.0 TTG         |                             | U A  |
| 2144                                                                      | COMPOSITE | 3/8               | 10.0 TTG     |                             | U A  | 4502                                                                           | COMPOSITE | 5/16              | 8.0 TTG         |                             | U A  |
| 2145                                                                      | COMPOSITE | 1/2               | 12.0 TTG     |                             | U A  | 4503                                                                           | COMPOSITE | 3/8               | 10.0 TTG        |                             | U A  |
| 2644                                                                      | COMPOSITE | 3/4               | 19.0 TTG     |                             | U A  | 4504                                                                           | COMPOSITE | 1/2               | 12.0 TTG        |                             | U A  |
| 1964                                                                      | COMPOSITE | 3/16              | 5.0 TPG (d)  |                             | U A  | 4505                                                                           | COMPOSITE | *                 | 15.0 TTG (3)    |                             | U A  |
| 2944                                                                      | COMPOSITE | 1/4               | 6.0 TPG (d)  |                             | U A  | 4506                                                                           | COMPOSITE | 3/4               | 19.0 TTG        |                             | U A  |
| 2945                                                                      | COMPOSITE | 3/8               | 10.0 TPG (d) |                             | U A  | <b>Dillmeier Enterprise, Inc. ; Van Buren, AR</b>                              |           |                   |                 |                             |      |
| 3817                                                                      | COMPOSITE | 1/2               | 12.0 TPG (m) |                             | U A  | 4838                                                                           | COMPOSITE | 1/8               | 3.0 TTG         |                             | U A  |
| <b>Custom Glass Products Inc. ; Weston, WI</b>                            |           |                   |              |                             |      | 3912                                                                           | COMPOSITE | 3/16              | 5.0 TTG         |                             | U A  |
| 4002                                                                      | COMPOSITE | 1/4               | 6.0 TTG      |                             | U A  | 3913                                                                           | COMPOSITE | 1/4               | 6.0 TTG         |                             | U A  |
| <b>Custom Glass Solutions Millbury Corp. ; Millbury, OH</b>               |           |                   |              |                             |      | 4839                                                                           | COMPOSITE | 5/16              | 8.0 TTG         |                             | U A  |
| 1575                                                                      | COMPOSITE | 5/32              | 4.0 TTG      |                             | U A  | 3914                                                                           | COMPOSITE | 3/8               | 10.0 TTG        |                             | U A  |
| 1576                                                                      | COMPOSITE | 3/16              | 5.0 TTG      |                             | U A  | 3915                                                                           | COMPOSITE | 1/2               | 12.0 TTG        |                             | U A  |
| 1577                                                                      | COMPOSITE | 1/4               | 6.0 TTG      |                             | U A  | 3916                                                                           | COMPOSITE | 5/8               | 16.0 TTG        |                             | U A  |
| <b>D3 Glass, LLC ; Fort Myers, FL</b>                                     |           |                   |              |                             |      | 3917                                                                           | COMPOSITE | 3/4               | 19.0 TTG        |                             | U A  |
| 4834                                                                      | COMPOSITE | 3/16              | 5.0 TTG      |                             | U A  | <b>Dlubak Corporation ; Blairsville, PA</b>                                    |           |                   |                 |                             |      |
| 4795                                                                      | COMPOSITE | 1/4               | 6.0 TTG      |                             | U A  | 3017                                                                           | COMPOSITE | 1/4               | 6.0 TTG         |                             | U A  |
| 4792                                                                      | COMPOSITE | 3/8               | 10.0 TTG     |                             | U A  | 3018                                                                           | COMPOSITE | 1/2               | 12.0 TTG        |                             | U A  |
| 4793                                                                      | COMPOSITE | 1/2               | 12.0 TTG     |                             | U A  | 3019                                                                           | COMPOSITE | 3/4               | 19.0 TTG        |                             | U A  |
| 4791                                                                      | COMPOSITE | 3/8               | 10.0 TPG (m) |                             | U A  | <b>Dolphin Glass Specialists, LLC ; Hialeah, FL</b>                            |           |                   |                 |                             |      |
| <b>Dalian Huaying Glass Products Co., Ltd. ; Dalian, Liaoning, China</b>  |           |                   |              |                             |      | 4729                                                                           | COMPOSITE | (H)               | 12 LTG (b)(A)   | (.030)                      | U A  |
| 5260                                                                      | COMPOSITE | 1/8"              | 3.0 TTG      |                             | U A  | <b>Dongguan CSG Architectural Glass Co., Ltd. ; Dongguan, Guangdong, China</b> |           |                   |                 |                             |      |
| 5261                                                                      | COMPOSITE | 3/16              | 5.0 TTG      |                             | U A  | 3932                                                                           | COMP+CAN  | 5/32              | 4.0 TTG         |                             | U A  |
| <b>Dallas Flat Glass ; Carrollton, TX</b>                                 |           |                   |              |                             |      | 3933                                                                           | COMP+CAN  | 3/16              | 5.0 TTG         |                             | U A  |
| 4790                                                                      | COMPOSITE | 1/8               | 3.0 TTG      |                             | U A  | 3934                                                                           | COMP+CAN  | 1/4               | 6.0 TTG         |                             | U A  |
| 4763                                                                      | COMPOSITE | 3/16              | 5.0 TTG      |                             | U A  | 3935                                                                           | COMP+CAN  | 5/16              | 8.0 TTG         |                             | U A  |
| 3701                                                                      | COMPOSITE | 1/4               | 6.0 TTG      |                             | U A  | 3936                                                                           | COMP+CAN  | 3/8               | 10.0 TTG        |                             | U A  |
| 4566                                                                      | COMPOSITE | 3/8               | 10.0 TTG     |                             | U A  | 3937                                                                           | COMP+CAN  | *                 | 12.0 TTG (3)    |                             | U A  |
| 4567                                                                      | COMPOSITE | 1/2               | 12.0 TTG     |                             | U A  | 3938                                                                           | COMP+CAN  | *                 | 15.0 TTG (3)    |                             | U A  |
| <b>Denver Glass Interiors, Inc. ; Englewood, CO</b>                       |           |                   |              |                             |      | 3939                                                                           | COMP+CAN  | 3/4               | 19.0 TTG        |                             | U A  |
| 3865                                                                      | COMPOSITE | 3/16              | 5.0 TTG      |                             | U A  | 4167                                                                           | COMP+CAN  | (H)               | 8-12 LTG (b)(A) | (.030)                      | U A  |
| 3866                                                                      | COMPOSITE | 1/4               | 6.0 TTG      |                             | U A  | <b>Dongguan Dongfa Glass Product Co., Ltd ; Dongguan, Guangdong, China</b>     |           |                   |                 |                             |      |
| 3867                                                                      | COMPOSITE | 3/8               | 10.0 TTG     |                             | U A  | 4132                                                                           | COMP+CAN  | 5/16              | 8.0 TTG         |                             | U A  |
| 3868                                                                      | COMPOSITE | 1/2               | 12.0 TTG     |                             | U A  | 4125                                                                           | COMP+CAN  | 3/8               | 10.0 TTG        |                             | U A  |
| 4507                                                                      | COMPOSITE | 1/4               | 6.0 TPG (m)  |                             | U A  | 4126                                                                           | COMP+CAN  | 1/2               | 12.0 TTG        |                             | U A  |
| 4508                                                                      | COMPOSITE | 3/8               | 10.0 TPG (s) |                             | U A  | 4123                                                                           | COMP+CAN  | (H)               | 8-12 LTG (b)(A) | (.030)                      | U A  |
| <b>Deqing Sanxing Plastic Chemical Co. Ltd. ; Huzhou, Zhejiang, China</b> |           |                   |              |                             |      | 4124                                                                           | COMP+CAN  | (H)               | 16 LTG (b)(A)   | (.030)                      | U A  |
| 4055                                                                      | COMPOSITE | 1/8               | 3.0 TTG      |                             | U A  | <b>Dongguan Trillion Aluminum Glass Co., Ltd ; Dongguan, Guangdong, China</b>  |           |                   |                 |                             |      |
| 4056                                                                      | COMPOSITE | 5/32              | 4.0 TTG      |                             | U A  | 5028                                                                           | COMPOSITE | 5/32              | 4.0 TTG         |                             | U A  |
| 4057                                                                      | COMPOSITE | 3/16              | 5.0 TTG      |                             | U A  | 5029                                                                           | COMPOSITE | 1/4               | 6.0 TTG         |                             | U A  |
| 4146                                                                      | COMPOSITE | 1/4               | 6.0 TTG      |                             | U A  | 5030                                                                           | COMPOSITE | 5/32              | 4.0 TPG (s)     |                             | U A  |
| 4147                                                                      | COMPOSITE | 3/8               | 10.0 TTG     |                             | U A  | 5031                                                                           | COMPOSITE | 1/4               | 6.0 TPG (s)     |                             | U A  |

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| SGCC#                                                   | TEST STD  | INCHES (MM)       | TYPE               | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                                                | TEST STD  | INCHES (MM)       | TYPE                  | MAX SIZE CERTIFIED | ANSI CLASS |
|---------------------------------------------------------|-----------|-------------------|--------------------|--------------------|------------|--------------------------------------------------------------------------------------|-----------|-------------------|-----------------------|--------------------|------------|
|                                                         |           | (THICKNESS CLASS) |                    |                    |            |                                                                                      |           | (THICKNESS CLASS) |                       |                    |            |
| <b>Downey Glass Industries, LLC ; Pompano Beach, FL</b> |           |                   |                    |                    |            | <b>Foshan Nanhai Gangsheng Tempered Glass Factory ; Foshan, Guangdong, China</b>     |           |                   |                       |                    |            |
| 2661                                                    | COMPOSITE | 3/16              | 5.0 TTG            |                    | U A        | 4673                                                                                 | COMP+CAN  | 5/32              | 4.0 TTG (IN)          |                    | U A        |
| 2662                                                    | COMPOSITE | 1/4               | 6.0 TTG            |                    | U A        | 4669                                                                                 | COMP+CAN  | 3/16              | 5.0 TTG (IN)          |                    | U A        |
| 2663                                                    | COMPOSITE | 3/8               | 10.0 TTG           |                    | U A        | 4670                                                                                 | COMP+CAN  | 1/4               | 6.0 TTG (IN)          |                    | U A        |
| 2664                                                    | COMPOSITE | 1/2               | 12.0 TTG           |                    | U A        | 4671                                                                                 | COMP+CAN  | 5/16              | 8.0 TTG (IN)          |                    | U A        |
| 2665                                                    | COMPOSITE | 3/4               | 19.0 TTG           |                    | U A        | 4672                                                                                 | COMP+CAN  | 3/8               | 10.0 TTG (IN)         |                    | U A        |
| 3487                                                    | COMPOSITE | 3/16              | 5.0 TPG (s)        |                    | U A        | <b>Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. ; Foshan, Guangdong, China</b>    |           |                   |                       |                    |            |
| 4626                                                    | COMPOSITE | 3/8               | 10.0 TPG (s)       |                    | U A        | 5388                                                                                 | COMPOSITE | 3/16              | 5.0 TTG               |                    | U A        |
| 5121                                                    | COMPOSITE | (S)               | 6 LTG (ip)(A)      | (.035)             | U A        | 5389                                                                                 | COMPOSITE | 1/4               | 6.0 TTG               |                    | U A        |
| 5122                                                    | COMPOSITE | (H)               | 10-16+ LTG (ip)(A) | (.035)             | U A        | 5390                                                                                 | COMPOSITE | 5/16              | 8.0 TTG               |                    | U A        |
| <b>Eckelt Glas GmbH ; Steyr, Austria</b>                |           |                   |                    |                    |            | 5391                                                                                 | COMPOSITE | 3/8               | 10.0 TTG              |                    | U A        |
| 2850                                                    | COMPOSITE | 1/4               | 6.0 TTG            |                    | U A        | 5392                                                                                 | COMPOSITE | 1/2               | 12.0 TTG              |                    | U A        |
| 2851                                                    | COMPOSITE | 5/16              | 8.0 TTG            |                    | U A        | <b>Fujian Xihe Sanitary Ware Technology Co., Ltd ; Nan'an Fujian China</b>           |           |                   |                       |                    |            |
| 2852                                                    | COMPOSITE | 3/8               | 10.0 TTG           |                    | U A        | 5216                                                                                 | COMPOSITE | 5/32              | 4.0 TTG               |                    | U A        |
| 2853                                                    | COMPOSITE | *                 | 12.0 TTG (3)       |                    | U A        | 5090                                                                                 | COMPOSITE | 3/16              | 5.0 TTG               |                    | U A        |
| 2854                                                    | COMPOSITE | *                 | 15.0 TTG (3)       |                    | U A        | 5091                                                                                 | COMPOSITE | 1/4               | 6.0 TTG               |                    | U A        |
| 2855                                                    | COMPOSITE | 3/4               | 19.0 TTG           |                    | U A        | 5092                                                                                 | COMPOSITE | 5/16              | 8.0 TTG               |                    | U A        |
| <b>EFCO Corporation ; Monett, MO</b>                    |           |                   |                    |                    |            | 5217                                                                                 | COMPOSITE | 5/32              | 4.0 TPG (s)           |                    | U A        |
| 4121                                                    | COMPOSITE | 1/8               | 3.0 TTG            |                    | U A        | 5218                                                                                 | COMPOSITE | 1/4               | 6.0 TPG (s)           |                    | U A        |
| 1901                                                    | COMPOSITE | 3/16              | 5.0 TTG            |                    | U A        | <b>Fujiansheng Binchang Metal Products Co., Ltd ; Zhang Zhou City, Fujian, China</b> |           |                   |                       |                    |            |
| 1902                                                    | COMPOSITE | 1/4               | 6.0 TTG            |                    | U A        | 5110                                                                                 | COMPOSITE | 5/32              | 4.0 TTG               |                    | U A        |
| 4154                                                    | COMPOSITE | 5/16              | 8.0 TTG            |                    | U A        | 5111                                                                                 | COMPOSITE | 5/32              | 4.0 TPG (s)           |                    | U A        |
| 2143                                                    | COMPOSITE | 3/16              | 5.0 TPG (s)        |                    | U A        | <b>Future Architectural Glass LLC ; Ras Al Khaimah, United Arab Emirates</b>         |           |                   |                       |                    |            |
| <b>EFI ; Kernersville, NC</b>                           |           |                   |                    |                    |            | 5118                                                                                 | COMPOSITE | (H)               | 10 LTG (b)(A)         | (.030)             | U A        |
| 5014                                                    | COMP+CAN  | 5/32              | 4.0 TTG            |                    | U A        | 5117                                                                                 | COMPOSITE | (H)               | 12 LTG (b)(A)         | (.060)             | U A        |
| 5208                                                    | COMP+CAN  | 3/16              | 5.0 TTG            |                    | U A        | 5232                                                                                 | COMPOSITE | (H)               | 16+ LTG (b)(A)        | (.030)             | U A        |
| 5026                                                    | COMP+CAN  | 1/4               | 6.0 TTG            |                    | U A        | <b>Galaxy Glass &amp; Stone ; Fairfield, NJ</b>                                      |           |                   |                       |                    |            |
| 5209                                                    | COMP+CAN  | 5/16              | 8.0 TTG            |                    | U A        | 3661                                                                                 | COMPOSITE | (H)               | 12-16+ LTG (lu)(A)(6) | (.060)             | U A        |
| 5210                                                    | COMP+CAN  | 3/8               | 10.0 TTG           |                    | U A        | <b>Garibaldi Glass Ind. Inc. ; Burnaby, BC</b>                                       |           |                   |                       |                    |            |
| 5211                                                    | COMP+CAN  | 1/2               | 12.0 TTG           |                    | U A        | 5124                                                                                 | COMP+CAN  | 3/16              | 5.0 TTG               |                    | U A        |
| <b>Engineered Glass Products, L.L.C. ; Chicago, IL</b>  |           |                   |                    |                    |            | 4419                                                                                 | COMP+CAN  | 1/4               | 6.0 TTG               |                    | U A        |
| 4388                                                    | COMPOSITE | 1/8               | 3.0 TTG            | 30x72 A            |            | 5219                                                                                 | COMP+CAN  | 5/16              | 8.0 TTG               |                    | U A        |
| 2589                                                    | COMPOSITE | 5/32              | 4.0 TTG            | 30x72 A            |            | 4420                                                                                 | COMP+CAN  | 3/8               | 10.0 TTG              |                    | U A        |
| 2590                                                    | COMPOSITE | 3/16              | 5.0 TTG            | 30x72 A            |            | 4421                                                                                 | COMP+CAN  | 1/2               | 12.0 TTG              |                    | U A        |
| 2698                                                    | COMPOSITE | 1/4               | 6.0 TTG            | 30x72 A            |            | 5125                                                                                 | COMP+CAN  | *                 | 15.0 TTG (3)          |                    | U A        |
| <b>Fairis C.A. ; Ambato, Tungurahua, Ecuador</b>        |           |                   |                    |                    |            | 4422                                                                                 | COMP+CAN  | 3/4               | 19.0 TTG              |                    | U A        |
| 4425                                                    | COMPOSITE | 5/32              | 4.0 TTG            |                    | U A        | <b>General Glass ; Portland, OR</b>                                                  |           |                   |                       |                    |            |
| 4426                                                    | COMPOSITE | 3/16              | 5.0 TTG            |                    | U A        | 4031                                                                                 | COMPOSITE | 1/8               | 3.0 TTG               |                    | U A        |
| 4427                                                    | COMPOSITE | 1/4               | 6.0 TTG            |                    | U A        | 4032                                                                                 | COMPOSITE | 5/32              | 4.0 TTG               |                    | U A        |
| 4428                                                    | COMPOSITE | 5/16              | 8.0 TTG            |                    | U A        | 4033                                                                                 | COMPOSITE | 3/16              | 5.0 TTG               |                    | U A        |
| 4429                                                    | COMPOSITE | 3/8               | 10.0 TTG           |                    | U A        | 4034                                                                                 | COMPOSITE | 1/4               | 6.0 TTG               |                    | U A        |
| 4722                                                    | COMPOSITE | (S)               | 6 LTG (b)(A)       | (.030)             | U A        | <b>Flat Glass Distributors ; Jacksonville, FL</b>                                    |           |                   |                       |                    |            |
| 4430                                                    | COMPOSITE | (H)               | 10-12 LTG (b)(A)   | (.030)             | U A        | 3822                                                                                 | COMPOSITE | 1/8               | 3.0 TTG               |                    | U A        |
| <b>Flat Glass Distributors ; Jacksonville, FL</b>       |           |                   |                    |                    |            | 3823                                                                                 | COMPOSITE | 3/16              | 5.0 TTG               |                    | U A        |
| 3822                                                    | COMPOSITE | 1/8               | 3.0 TTG            |                    | U A        | 3824                                                                                 | COMPOSITE | 1/4               | 6.0 TTG               |                    | U A        |
| 3823                                                    | COMPOSITE | 3/16              | 5.0 TTG            |                    | U A        | 3825                                                                                 | COMPOSITE | 3/8               | 10.0 TTG              |                    | U A        |
| 3824                                                    | COMPOSITE | 1/4               | 6.0 TTG            |                    | U A        | 3826                                                                                 | COMPOSITE | 1/2               | 12.0 TTG              |                    | U A        |
| 3825                                                    | COMPOSITE | 3/8               | 10.0 TTG           |                    | U A        | 3828                                                                                 | COMPOSITE | 1/8               | 3.0 TPG (m)           |                    | U A        |
| 3826                                                    | COMPOSITE | 1/2               | 12.0 TTG           |                    | U A        | 3830                                                                                 | COMPOSITE | 3/16              | 5.0 TPG (m)           |                    | U A        |
| 3828                                                    | COMPOSITE | 1/8               | 3.0 TPG (m)        |                    | U A        | 3831                                                                                 | COMPOSITE | 1/4               | 6.0 TPG (s)           |                    | U A        |
| 3830                                                    | COMPOSITE | 3/16              | 5.0 TPG (m)        |                    | U A        | 4638                                                                                 | COMPOSITE | 3/8               | 10.0 TPG (s)          |                    | U A        |
| 3831                                                    | COMPOSITE | 1/4               | 6.0 TPG (s)        |                    | U A        |                                                                                      |           |                   |                       |                    |            |
| 4638                                                    | COMPOSITE | 3/8               | 10.0 TPG (s)       |                    | U A        |                                                                                      |           |                   |                       |                    |            |

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| SGCC#                                              | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE               | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                  | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE            | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|----------------------------------------------------|-----------|--------------------------------|------|--------------------|-----------------------|---------------|--------------------------------------------------------|-----------|--------------------------------|------|-----------------|-----------------------|---------------|
| <b>GGI Glass Distributors Corp. ; Secaucus, NJ</b> |           |                                |      |                    |                       |               | <b>GlassFab Tempering Services Inc. ; Tracy, CA</b>    |           |                                |      |                 |                       |               |
| 2928                                               | COMPOSITE | 5/32                           |      | 4.0 TTG            |                       | U A           | 4889                                                   | COMPOSITE | 3/16                           |      | 5.0 TTG         |                       | U A           |
| 2226                                               | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           | 4891                                                   | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 2227                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 4892                                                   | COMPOSITE | 3/8                            |      | 10.0 TTG        |                       | U A           |
| 4248                                               | COMPOSITE | 5/16                           |      | 8.0 TTG            |                       | U A           | 4890                                                   | COMPOSITE | 1/2                            |      | 12.0 TTG        |                       | U A           |
| 2282                                               | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           | 4893                                                   | COMPOSITE | 3/4                            |      | 19.0 TTG        |                       | U A           |
| 2228                                               | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           | 4894                                                   | COMPOSITE | 1/8                            |      | 3.0 TPG (s)     |                       | U A           |
| 3857                                               | COMPOSITE | 5/8                            |      | 16.0 TTG           |                       | U A           | 5128                                                   | COMPOSITE | 5/32                           |      | 4.0 TPG (d)     |                       | U A           |
| 3858                                               | COMPOSITE | 3/4                            |      | 19.0 TTG           |                       | U A           | 4895                                                   | COMPOSITE | 3/16                           |      | 5.0 TPG (m)     |                       | U A           |
| 4774                                               | COMPOSITE | 1                              |      | 25.0 TTG (IN)      |                       | U A           | 4896                                                   | COMPOSITE | 1/4                            |      | 6.0 TPG (m)     |                       | U A           |
| 3970                                               | COMPOSITE | 5/32                           |      | 4.0 TPG (s)        |                       | U A           | 4897                                                   | COMPOSITE | 3/8                            |      | 10.0 TPG (s)    |                       | U A           |
| 3971                                               | COMPOSITE | 3/16                           |      | 5.0 TPG (s)        |                       | U A           | 4898                                                   | COMPOSITE | (S)                            |      | 6 LTG (b)(A)    | (.030)                | U A           |
| 3972                                               | COMPOSITE | 1/4                            |      | 6.0 TPG (s)        |                       | U A           | 4899                                                   | COMPOSITE | (H)                            |      | 8-12 LTG (b)(A) | (.030)                | U A           |
| 3973                                               | COMPOSITE | 3/8                            |      | 10.0 TPG (s)       |                       | U A           | <b>Glasswerks LA, Inc. ; South Gate, CA</b>            |           |                                |      |                 |                       |               |
| 3974                                               | COMPOSITE | 1/2                            |      | 12.0 TPG (s)       |                       | U A           | 4804                                                   | COMPOSITE | 1/8                            |      | 3.0 TTG         |                       | U A           |
| <b>Glas Works, Inc. ; Dania Beach, FL</b>          |           |                                |      |                    |                       |               | 4805                                                   | COMPOSITE | 3/16                           |      | 5.0 TTG         |                       | U A           |
| 5019                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 4806                                                   | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 5020                                               | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           | <b>Glaz-Tech Industries ; Englewood, CO</b>            |           |                                |      |                 |                       |               |
| 5021                                               | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           | 2185                                                   | COMPOSITE | 1/8                            |      | 3.0 TTG         |                       | U A           |
| <b>Glass and Mirror Craft ; Wixom, MI</b>          |           |                                |      |                    |                       |               | 2186                                                   | COMPOSITE | 3/16                           |      | 5.0 TTG         |                       | U A           |
| 4198                                               | COMP+CAN  | 1/8                            |      | 3.0 TTG            |                       | U A           | 2187                                                   | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 5116                                               | COMP+CAN  | 5/32                           |      | 4.0 TTG            |                       | U A           | 5143                                                   | COMPOSITE | 3/8                            |      | 10.0 TTG        |                       | U A           |
| 4199                                               | COMP+CAN  | 3/16                           |      | 5.0 TTG            |                       | U A           | 2189                                                   | COMPOSITE | 1/2                            |      | 12.0 TTG        |                       | U A           |
| 4200                                               | COMP+CAN  | 1/4                            |      | 6.0 TTG            |                       | U A           | 2190                                                   | COMPOSITE | 3/4                            |      | 19.0 TTG        |                       | U A           |
| 4201                                               | COMP+CAN  | 3/8                            |      | 10.0 TTG           |                       | U A           | 2193                                                   | COMPOSITE | 3/16                           |      | 5.0 TPG (s)     |                       | U A           |
| 4202                                               | COMP+CAN  | 1/2                            |      | 12.0 TTG           |                       | U A           | <b>Glenny Glass Co. ; Milford, OH</b>                  |           |                                |      |                 |                       |               |
| 4203                                               | COMP+CAN  | 5/8                            |      | 16.0 TTG           |                       | U A           | 3841                                                   | COMPOSITE | 1/8                            |      | 3.0 TTG         |                       | U A           |
| 4204                                               | COMP+CAN  | 3/4                            |      | 19.0 TTG           |                       | U A           | 3843                                                   | COMPOSITE | 3/16                           |      | 5.0 TTG         |                       | U A           |
| 4924                                               | COMP+CAN  | (H)                            |      | 12-16+ LTG (ip)(A) | (.030)                | U A           | 3844                                                   | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
| <b>Glass Design of Miami, Inc. ; Miami, FL</b>     |           |                                |      |                    |                       |               | 3845                                                   | COMPOSITE | 3/8                            |      | 10.0 TTG        |                       | U A           |
| 3453                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 3846                                                   | COMPOSITE | 1/2                            |      | 12.0 TTG        |                       | U A           |
| 3454                                               | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           | <b>Global Security Glazing ; Selma, AL</b>             |           |                                |      |                 |                       |               |
| 3607                                               | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           | 4764                                                   | COMP+CAN  | 1/8                            |      | 3.0 TTG         |                       | U A           |
| 5237                                               | COMPOSITE | 3/4                            |      | 19.0 TTG           |                       | U A           | 4765                                                   | COMP+CAN  | 3/16                           |      | 5.0 TTG         |                       | U A           |
| <b>Glass Dynamics, Inc. ; Stoneville, NC</b>       |           |                                |      |                    |                       |               | 4766                                                   | COMP+CAN  | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 2728                                               | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           | 4767                                                   | COMP+CAN  | 3/8                            |      | 10.0 TTG        |                       | U A           |
| 2730                                               | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           | 4768                                                   | COMP+CAN  | 1/2                            |      | 12.0 TTG        |                       | U A           |
| 2732                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 4769                                                   | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)    | (.030)                | U A           |
| 5259                                               | COMPOSITE | 5/16                           |      | 8.0 TTG            |                       | U A           | 4770                                                   | COMP+CAN  | (H)                            |      | 12 LTG (b)(A)   | (.060)                | U A           |
| 2729                                               | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           | <b>Goldray Industries Ltd. ; Calgary, AB Canada</b>    |           |                                |      |                 |                       |               |
| 2733                                               | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           | 2444                                                   | COMP+CAN  | 1/8                            |      | 3.0 TTG         |                       | U A           |
| 2731                                               | COMPOSITE | 5/8                            |      | 16.0 TTG           |                       | U A           | 2445                                                   | COMP+CAN  | 5/32                           |      | 4.0 TTG         |                       | U A           |
| 2734                                               | COMPOSITE | 3/4                            |      | 19.0 TTG           |                       | U A           | 2446                                                   | COMP+CAN  | 3/16                           |      | 5.0 TTG         |                       | U A           |
| 4413                                               | COMPOSITE | (S)                            |      | 6 LTG (ip)(A)      | (.035)                | U A           | 2447                                                   | COMP+CAN  | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 4375                                               | COMPOSITE | (S)                            |      | 6 LTG (b)(A)       | (.030)                | U A           | 2448                                                   | COMP+CAN  | 3/8                            |      | 10.0 TTG        |                       | U A           |
| 4414                                               | COMPOSITE | (H)                            |      | 8-16+ LTG (ip)(A)  | (.035)                | U A           | 2449                                                   | COMP+CAN  | 1/2                            |      | 12.0 TTG        |                       | U A           |
| 4376                                               | COMPOSITE | (H)                            |      | 8-16+ LTG (b)(A)   | (.030)                | U A           | <b>Grand Glass Windows and Doors Inc. ; Mobile, AL</b> |           |                                |      |                 |                       |               |
| <b>Glass Enterprises, Inc. ; Bensalem, PA</b>      |           |                                |      |                    |                       |               | 4907                                                   | COMPOSITE | 1/8                            |      | 3.0 TTG         |                       | U A           |
| 4628                                               | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           | 4909                                                   | COMPOSITE | 1/4                            |      | 6.0 TTG         |                       | U A           |
| 4629                                               | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 5071                                                   | COMPOSITE | 1/8                            |      | 3.0 TPG (s)     |                       | U A           |
|                                                    |           |                                |      |                    |                       |               | <b>GSA Armourplate ; Cape Town, South Africa</b>       |           |                                |      |                 |                       |               |
|                                                    |           |                                |      |                    |                       |               | 4887                                                   | COMPOSITE | 5/32                           |      | 4.0 TTG         |                       | U A           |

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| SGCC#                                                                  | TEST STD  | INCHES (MM)       | TYPE              | MAX SIZE  | ANSI  | SGCC#                                                             | TEST STD  | INCHES (MM)       | TYPE                      | MAX SIZE  | ANSI  |
|------------------------------------------------------------------------|-----------|-------------------|-------------------|-----------|-------|-------------------------------------------------------------------|-----------|-------------------|---------------------------|-----------|-------|
|                                                                        |           | (THICKNESS CLASS) |                   | CERTIFIED | CLASS |                                                                   |           | (THICKNESS CLASS) |                           | CERTIFIED | CLASS |
| <b>Guangdong Golden Glass Technologies ; Shantou, Guangdong, China</b> |           |                   |                   |           |       | <b>Guardian Industries Corp. ; Galax, VA</b>                      |           |                   |                           |           |       |
| 3941                                                                   | COMPOSITE | 1/4               | 6.0 TTG           |           | U A   | 4604                                                              | COMP+CAN  | 1/8               | 3.0 TTG                   |           | U A   |
| 3942                                                                   | COMPOSITE | 5/16              | 8.0 TTG           |           | U A   | 4605                                                              | COMP+CAN  | 5/32              | 4.0 TTG                   |           | U A   |
| 3943                                                                   | COMPOSITE | 3/8               | 10.0 TTG          |           | U A   | 4606                                                              | COMP+CAN  | 3/16              | 5.0 TTG                   |           | U A   |
| 3944                                                                   | COMPOSITE | 1/2               | 12.0 TTG          |           | U A   | 4607                                                              | COMP+CAN  | 1/4               | 6.0 TTG                   |           | U A   |
| 3945                                                                   | COMPOSITE | *                 | 15.0 TTG (3)      |           | U A   | 4608                                                              | COMP+CAN  | 5/16              | 8.0 TTG                   |           | U A   |
| 3946                                                                   | COMPOSITE | 3/4               | 19.0 TTG          |           | U A   | 4609                                                              | COMP+CAN  | 3/8               | 10.0 TTG                  |           | U A   |
| 4535                                                                   | COMPOSITE | 7/8               | 22.0 TTG          |           | U A   | 4610                                                              | COMP+CAN  | 1/2               | 12.0 TTG                  |           | U A   |
| 3947                                                                   | COMPOSITE | (H)               | 10-16+ LTG (b)(A) | (.030)    | U A   | 4611                                                              | COMP+CAN  | 3/4               | 19.0 TTG (IN)             |           | U A   |
| 4723                                                                   | COMPOSITE | (H)               | 16+ LTG (ip)(A)   | (.015)    | U A   | 4612                                                              | COMP+CAN  | 1/8               | 3.0 TPG (s)               |           | U A   |
| <b>Guardian Fabrication Inc. ; Webster, MA</b>                         |           |                   |                   |           |       | 4613                                                              | COMP+CAN  | 3/16              | 5.0 TPG (m)               |           | U A   |
| 300                                                                    | COMPOSITE | 1/8               | 3.0 TTG           |           | U A   | 4627                                                              | COMP+CAN  | 3/8               | 10.0 TPG (s)              |           | U A   |
| 1607                                                                   | COMPOSITE | 5/32              | 4.0 TTG           |           | U A   | 4633                                                              | COMP+CAN  | (S)               | 6 LTG (b)(A)              | (.030)    | U A   |
| 1216                                                                   | COMPOSITE | 3/16              | 5.0 TTG           |           | U A   | 4800                                                              | COMP+CAN  | (S)               | 6 LTG (b)(p)(el)(6)(A)    | (.075)    | U A   |
| 662                                                                    | COMPOSITE | 1/4               | 6.0 TTG           |           | U A   | 4658                                                              | COMP+CAN  | (H)               | 8 LTG (b)(A)              | (.030)    | U A   |
| 471                                                                    | COMPOSITE | 3/8               | 10.0 TTG          |           | U A   | 4829                                                              | COMP+CAN  | (H)               | 8-10 LTG (b)(p)(el)(6)(A) | (.075)    | U A   |
| 1235                                                                   | COMPOSITE | 1/2               | 12.0 TTG          |           | U A   | <b>Guardian Industries Corp. ; Geneva, NY</b>                     |           |                   |                           |           |       |
| 3604                                                                   | COMPOSITE | 1/8               | 3.0 TPG (s)       |           | U A   | 2259                                                              | COMPOSITE | 1/8               | 3.0 TTG                   |           | U A   |
| 2451                                                                   | COMPOSITE | 5/32              | 4.0 TPG (m)       |           | U A   | 2260                                                              | COMPOSITE | 5/32              | 4.0 TTG                   |           | U A   |
| 2603                                                                   | COMPOSITE | 3/16              | 5.0 TPG (m)       |           | U A   | 2261                                                              | COMPOSITE | 3/16              | 5.0 TTG                   |           | U A   |
| 3024                                                                   | COMPOSITE | 7/32              | 5.5 TPG (s)       |           | U A   | 2262                                                              | COMPOSITE | 1/4               | 6.0 TTG                   |           | U A   |
| 4656                                                                   | COMPOSITE | 1/4               | 6.0 TPG (s)       |           | U A   | 3672                                                              | COMPOSITE | 5/16              | 8.0 TTG                   |           | U A   |
| <b>Guardian Industries Corp. ; Carleton, MI</b>                        |           |                   |                   |           |       | 2519                                                              | COMPOSITE | 3/8               | 10.0 TTG                  |           | U A   |
| 933                                                                    | COMPOSITE | 1/8               | 3.0 TTG           |           | U A   | 3673                                                              | COMPOSITE | 1/2               | 12.0 TTG                  |           | U A   |
| 934                                                                    | COMPOSITE | 5/32              | 4.0 TTG           |           | U A   | <b>Guardian Industries Corp. ; Kingsburg, CA</b>                  |           |                   |                           |           |       |
| 631                                                                    | COMPOSITE | 3/16              | 5.0 TTG           |           | U A   | 968                                                               | COMPOSITE | 1/8               | 3.0 TTG                   |           | U A   |
| 131                                                                    | COMPOSITE | 1/4               | 6.0 TTG           |           | U A   | 969                                                               | COMPOSITE | 5/32              | 4.0 TTG                   |           | U A   |
| <b>Guardian Industries Corp. ; Corsicana, TX</b>                       |           |                   |                   |           |       | 970                                                               | COMPOSITE | 3/16              | 5.0 TTG                   |           | U A   |
| 1248                                                                   | COMPOSITE | 1/8               | 3.0 TTG           |           | U A   | 971                                                               | COMPOSITE | 1/4               | 6.0 TTG                   |           | U A   |
| 1249                                                                   | COMPOSITE | 5/32              | 4.0 TTG           |           | U A   | 1303                                                              | COMPOSITE | 1/8               | 3.0 TPG (d)               |           | U A   |
| 1250                                                                   | COMPOSITE | 3/16              | 5.0 TTG           |           | U A   | 1301                                                              | COMPOSITE | 5/32              | 4.0 TPG (m)               |           | U A   |
| 1251                                                                   | COMPOSITE | 1/4               | 6.0 TTG           |           | U A   | 1304                                                              | COMPOSITE | 3/16              | 5.0 TPG (m)               |           | U A   |
| 1826                                                                   | COMPOSITE | 5/16              | 8.0 TTG           |           | U A   | 1882                                                              | COMPOSITE | 1/4               | 6.0 TPG (m)               |           | U A   |
| 1253                                                                   | COMPOSITE | 3/8               | 10.0 TTG          |           | U A   | <b>Guardian Industries Corp. ; Richburg, SC</b>                   |           |                   |                           |           |       |
| 1803                                                                   | COMPOSITE | 1/2               | 12.0 TTG          |           | U A   | 1630                                                              | COMPOSITE | 1/8               | 3.0 TTG                   |           | U A   |
| 2458                                                                   | COMPOSITE | 1/8               | 3.0 TPG (m)       |           | U A   | 1631                                                              | COMPOSITE | 5/32              | 4.0 TTG                   |           | U A   |
| 2459                                                                   | COMPOSITE | 5/32              | 4.0 TPG (m)       |           | U A   | 1632                                                              | COMPOSITE | 3/16              | 5.0 TTG                   |           | U A   |
| 2460                                                                   | COMPOSITE | 3/16              | 5.0 TPG (m)       |           | U A   | 1633                                                              | COMPOSITE | 1/4               | 6.0 TTG                   |           | U A   |
| 5142                                                                   | COMPOSITE | 1/4               | 6.0 TPG (m)       |           | U A   | 2382                                                              | COMPOSITE | 5/16              | 8.0 TTG                   |           | U A   |
| 5133                                                                   | COMPOSITE | 3/8               | 10.0 TPG (m)      |           | U A   | 1634                                                              | COMPOSITE | 3/8               | 10.0 TTG                  |           | U A   |
| <b>Guardian Industries Corp. ; DeWitt, IA</b>                          |           |                   |                   |           |       | 1683                                                              | COMPOSITE | 1/8               | 3.0 TPG (m)               |           | U A   |
| 2020                                                                   | COMPOSITE | 1/8               | 3.0 TTG           |           | U A   | 1635                                                              | COMPOSITE | 5/32              | 4.0 TPG (m)               |           | U A   |
| 2021                                                                   | COMPOSITE | 5/32              | 4.0 TTG           |           | U A   | 1865                                                              | COMPOSITE | 3/16              | 5.0 TPG (m)               |           | U A   |
| 2022                                                                   | COMPOSITE | 3/16              | 5.0 TTG           |           | U A   | 3002                                                              | COMPOSITE | 1/4               | 6.0 TPG (m)               |           | U A   |
| 2023                                                                   | COMPOSITE | 1/4               | 6.0 TTG           |           | U A   | 3003                                                              | COMPOSITE | 3/8               | 10.0 TPG (m)              |           | U A   |
| 2024                                                                   | COMPOSITE | 5/16              | 8.0 TTG           |           | U A   | <b>Gulf Glass Industries, LLC ; Sharjah, United Arab Emirates</b> |           |                   |                           |           |       |
| 2545                                                                   | COMPOSITE | 3/8               | 10.0 TTG          |           | U A   | 4796                                                              | COMPOSITE | 1/4               | 6.0 TTG                   |           | U A   |
| 2649                                                                   | COMPOSITE | 1/2               | 12.0 TTG          |           | U A   | 4797                                                              | COMPOSITE | 3/8               | 10.0 TTG                  |           | U A   |
|                                                                        |           |                   |                   |           |       | 4798                                                              | COMPOSITE | *                 | 12.0 TTG (7)              |           | U A   |
|                                                                        |           |                   |                   |           |       | 4799                                                              | COMPOSITE | (H)               | 8 LTG (b)(A)              | (.030)    | U A   |
| <b>Hartung Glass Industries ; Wilsonville, OR</b>                      |           |                   |                   |           |       | <b>Hartung Glass Industries Lami ; Langley, BC Canada</b>         |           |                   |                           |           |       |
|                                                                        |           |                   |                   |           |       | 4686                                                              | COMPOSITE | 3/8               | 10.0 TTG                  |           | U A   |
|                                                                        |           |                   |                   |           |       | 4631                                                              | COMPOSITE | 3/4               | 19.0 TTG                  |           | U A   |
|                                                                        |           |                   |                   |           |       | 4431                                                              | COMPOSITE | (H)               | 16+ LTG (ip)(A)           | (.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 ; Jiangmen, Guangdong, China</b> |           |                                |                    |                       |               |
| 3418                                                          | COMPOSITE | 3/8                            | 10.0 TTG         |                       | U A           | 4303                                                               | COMP+CAN  | 5/32                           | 4.0 TTG            |                       | U A           |
| 3419                                                          | COMPOSITE | 1/2                            | 12.0 TTG         |                       | U A           | 4304                                                               | COMP+CAN  | 3/16                           | 5.0 TTG            |                       | U A           |
| 4240                                                          | COMPOSITE | 3/4                            | 19.0 TTG         |                       | U A           | 4305                                                               | COMP+CAN  | 1/4                            | 6.0 TTG            |                       | U A           |
| <b>Inkan Ltd ; Brampton, ON</b>                               |           |                                |                  |                       |               | 4306                                                               | COMP+CAN  | 5/16                           | 8.0 TTG            |                       | U A           |
| 5135                                                          | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           | 4307                                                               | COMP+CAN  | 3/8                            | 10.0 TTG           |                       | U A           |
| 5136                                                          | COMP+CAN  | 5/16                           | 8.0 TTG          |                       | U A           | 4308                                                               | COMP+CAN  | 1/2                            | 12.0 TTG           |                       | U A           |
| 5137                                                          | COMP+CAN  | 3/8                            | 10.0 TTG         |                       | U A           | 4309                                                               | COMP+CAN  | *                              | 15.0 TTG (3)       |                       | U A           |
| 5138                                                          | COMP+CAN  | 1/2                            | 12.0 TTG         |                       | U A           | 4310                                                               | COMP+CAN  | 3/4                            | 19.0 TTG           |                       | U A           |
| 5139                                                          | COMP+CAN  | 5/8                            | 16.0 TTG         |                       | U A           | 5052                                                               | COMP+CAN  | 1/4                            | 6.0 TBG            |                       | U A           |
| 5140                                                          | COMP+CAN  | 3/4                            | 19.0 TTG         |                       | U A           | 5053                                                               | COMP+CAN  | 5/16                           | 8.0 TBG            |                       | U A           |
| <b>Insulated Glass of America, Inc. ; Dallas, NC</b>          |           |                                |                  |                       |               | 5054                                                               | COMP+CAN  | 3/8                            | 10.0 TBG           |                       | U A           |
| 3859                                                          | COMPOSITE | 1/8                            | 3.0 TTG          |                       | U A           | 5055                                                               | COMP+CAN  | 1/2                            | 12.0 TBG           |                       | U A           |
| 3860                                                          | COMPOSITE | 5/32                           | 4.0 TTG          |                       | U A           | 4312                                                               | COMP+CAN  | (H)                            | 8-16+ LTG (b)(A)   | (.030)                | U A           |
| 3861                                                          | COMPOSITE | 3/16                           | 5.0 TTG          |                       | U A           | 4575                                                               | COMP+CAN  | (H)                            | 10-16+ LTG (ip)(A) | (.060)                | U A           |
| 3862                                                          | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           | <b>Jiangyin Mingyang Glass Production ; Jiangyin City, Jiangsu</b> |           |                                |                    |                       |               |
| 3863                                                          | COMPOSITE | 3/8                            | 10.0 TTG         |                       | U A           | 5415                                                               | COMPOSITE | 1/8                            | 3.0 TTG            |                       | U A           |
| 3864                                                          | COMPOSITE | 1/2                            | 12.0 TTG         |                       | U A           | 5416                                                               | COMPOSITE | 5/32                           | 4.0 TTG            |                       | U A           |
| <b>Insulite Glass Co., Inc. ; Olathe, KS</b>                  |           |                                |                  |                       |               | 5417                                                               | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           |
| 4473                                                          | COMPOSITE | 1/8                            | 3.0 TTG          |                       | U A           | <b>Jiaxing Joinbath Corporation ; Jiaxing, Zhejiang, China</b>     |           |                                |                    |                       |               |
| 4474                                                          | COMPOSITE | 5/32                           | 4.0 TTG          |                       | U A           | 5195                                                               | COMPOSITE | 5/32                           | 4.0 TTG            |                       | U A           |
| 3714                                                          | COMPOSITE | 3/16                           | 5.0 TTG          |                       | U A           | 5196                                                               | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           |
| 3715                                                          | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           | 5146                                                               | COMPOSITE | 5/32                           | 4.0 TPG (m)        |                       | U A           |
| 3716                                                          | COMPOSITE | 3/8                            | 10.0 TTG         |                       | U A           | 5198                                                               | COMPOSITE | 1/4                            | 6.0 TPG (m)        |                       | U A           |
| 3717                                                          | COMPOSITE | 1/2                            | 12.0 TTG         |                       | U A           | 5370                                                               | COMPOSITE | 5/32                           | 4.0 TBG            |                       | U A           |
| 3718                                                          | COMPOSITE | (S)                            | 6 LTG (b)(A)     | (.030)                | U A           | 4828                                                               | COMPOSITE | 3/16                           | 5.0 TBG            |                       | U A           |
| 3720                                                          | COMPOSITE | (H)                            | 8 LTG (b)(A)     | (.060)                | U A           | 4389                                                               | COMPOSITE | 1/4                            | 6.0 TBG            |                       | U A           |
| 3723                                                          | COMPOSITE | (H)                            | 10-12 LTG (b)(A) | (.030)                | U A           | <b>Jin Yao Chang Tempered Glass Co., Ltd ; , Guangdong</b>         |           |                                |                    |                       |               |
| <b>Integral Seal Mfg. Inc. ; Concord, ON Canada</b>           |           |                                |                  |                       |               | 5292                                                               | COMPOSITE | 5/32                           | 4.0 TTG            |                       | U A           |
| 4682                                                          | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           | 5293                                                               | COMPOSITE | 3/16                           | 5.0 TTG            |                       | U A           |
| 4683                                                          | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           | 5294                                                               | COMPOSITE | 5/16                           | 8.0 TTG            |                       | U A           |
| 4684                                                          | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           | <b>JM Glass ; Hayward, CA</b>                                      |           |                                |                    |                       |               |
| <b>Interglass Corp ; Miami, FL</b>                            |           |                                |                  |                       |               | 4928                                                               | COMPOSITE | 3/16                           | 5.0 TTG            |                       | U A           |
| 5032                                                          | COMPOSITE | 3/16                           | 5.0 TTG          |                       | U A           | 4929                                                               | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           |
| 5033                                                          | COMPOSITE | 1/4                            | 6.0 TTG          |                       | U A           | 4930                                                               | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           |
| 5034                                                          | COMPOSITE | 3/8                            | 10.0 TTG         |                       | U A           | 4931                                                               | COMPOSITE | 1/2                            | 12.0 TTG           |                       | U A           |
| 5035                                                          | COMPOSITE | 1/2                            | 12.0 TTG         |                       | U A           | <b>JYC Glass Co. Ltd. ; Foshan, Guangdong, China</b>               |           |                                |                    |                       |               |
| 5036                                                          | COMPOSITE | 3/4                            | 19.0 TTG         |                       | U A           | 3957                                                               | COMPOSITE | 1/8                            | 3.0 TTG            |                       | U A           |
| 5119                                                          | COMPOSITE | 3/16                           | 5.0 TPG (s)      |                       | U A           | 3958                                                               | COMPOSITE | 5/32                           | 4.0 TTG            |                       | U A           |
| 5027                                                          | COMPOSITE | 3/8                            | 10.0 TPG (s)     |                       | U A           | 3959                                                               | COMPOSITE | 3/16                           | 5.0 TTG            |                       | U A           |
| <b>Intex Glass (Xiamen) Co., Ltd. ; Xiamen, Fujian, China</b> |           |                                |                  |                       |               | 3960                                                               | COMPOSITE | 1/4                            | 6.0 TTG            |                       | U A           |
| 2572                                                          | COMP+CAN  | 1/8                            | 3.0 TTG          |                       | U A           | 3961                                                               | COMPOSITE | 5/16                           | 8.0 TTG            |                       | U A           |
| 2573                                                          | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           | 3962                                                               | COMPOSITE | 3/8                            | 10.0 TTG           |                       | U A           |
| 2574                                                          | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           | 3963                                                               | COMPOSITE | 1/2                            | 12.0 TTG           |                       | U A           |
| 2575                                                          | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           | 4161                                                               | COMPOSITE | 5/32                           | 4.0 TPG (m)        |                       | U A           |
| 3025                                                          | COMP+CAN  | 5/16                           | 8.0 TTG          |                       | U A           | 4162                                                               | COMPOSITE | 3/16                           | 5.0 TPG (m)        |                       | U A           |
| 2576                                                          | COMP+CAN  | 3/8                            | 10.0 TTG         |                       | U A           | 4163                                                               | COMPOSITE | 1/4                            | 6.0 TPG (s)        |                       | U A           |
| 2577                                                          | COMP+CAN  | 1/2                            | 12.0 TTG         |                       | U A           | 4165                                                               | COMPOSITE | 3/16                           | 5.0 TBP (m)        |                       | U A           |
| <b>Intigral ; Walton Hills, OH</b>                            |           |                                |                  |                       |               | 4166                                                               | COMPOSITE | 1/4                            | 6.0 TBP (s)        |                       | U A           |
| 2050                                                          | COMP+CAN  | 1/8                            | 3.0 TTG          |                       | U A           | 3991                                                               | COMPOSITE | 5/32                           | 4.0 TBG            |                       | U A           |
| 2051                                                          | COMP+CAN  | 5/32                           | 4.0 TTG          |                       | U A           | 3992                                                               | COMPOSITE | 3/16                           | 5.0 TBG            |                       | U A           |
| 2052                                                          | COMP+CAN  | 3/16                           | 5.0 TTG          |                       | U A           | 3993                                                               | COMPOSITE | 1/4                            | 6.0 TBG            |                       | U A           |
| 2055                                                          | COMP+CAN  | 1/4                            | 6.0 TTG          |                       | U A           | 3994                                                               | COMPOSITE | 5/16                           | 8.0 TBG            |                       | U A           |
| 3631                                                          | COMP+CAN  | 1/8                            | 3.0 TPG (m)      |                       | U A           |                                                                    |           |                                |                    |                       |               |
| 4588                                                          | COMP+CAN  | 5/32                           | 4.0 TPG (m)      |                       | U A           |                                                                    |           |                                |                    |                       |               |



**Certified Products-Alphabetical By Plant**

| SGCC#                                                                     | TEST STD  | INCHES (MM)       | TYPE              | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                    | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS |
|---------------------------------------------------------------------------|-----------|-------------------|-------------------|--------------------|------------|----------------------------------------------------------|-----------|-------------------|------------------|--------------------|------------|
|                                                                           |           | (THICKNESS CLASS) |                   |                    |            |                                                          |           | (THICKNESS CLASS) |                  |                    |            |
| <b>Kawneer - (Cranberry) a division of Alcoa ; Cranberry Township, PA</b> |           |                   |                   |                    |            | <b>Mercer Glass Fab LLC ; Trenton, NJ</b>                |           |                   |                  |                    |            |
| 2488                                                                      | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 4254                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 2489                                                                      | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 4530                                                     | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        |
| 2490                                                                      | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 4255                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 2678                                                                      | COMPOSITE | 5/16              | 8.0 TTG           |                    | U A        | 4256                                                     | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| 4394                                                                      | COMPOSITE | 1/8               | 3.0 TPG (s)       |                    | U A        | 4257                                                     | COMPOSITE | 1/4               | 6.0 TPG (m)      |                    | U A        |
| 4395                                                                      | COMPOSITE | 3/16              | 5.0 TPG (s)       |                    | U A        | 4258                                                     | COMPOSITE | 3/8               | 10.0 TPG (m)     |                    | U A        |
| 2748                                                                      | COMPOSITE | (H)               | 8-12 LTG (ip)(A)  | (.090)             | U A        | <b>Milgard Tempering ; Dixon, CA</b>                     |           |                   |                  |                    |            |
| 2715                                                                      | COMPOSITE | (H)               | 8 & 12 LTG (b)(A) | (.060)             | U A        | 2842                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 2716                                                                      | COMPOSITE | (H)               | 10 LTG (b)(A)     | (.030)             | U A        | <b>Multiver ; Vanier, QC</b>                             |           |                   |                  |                    |            |
| 2719                                                                      | COMPOSITE | (H)               | 12 LTG (b)(A)     | (.090)             | U A        | 2498                                                     | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |
| <b>Kohler Company ; Union City, TN</b>                                    |           |                   |                   |                    |            | 2629                                                     | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        |
| 1979                                                                      | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 4524                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 1980                                                                      | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        | 2499                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 1981                                                                      | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 5226                                                     | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        |
| 1982                                                                      | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 5227                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 4668                                                                      | COMPOSITE | 5/16              | 8.0 TTG           |                    | U A        | 5228                                                     | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| 2434                                                                      | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | <b>Nashville Tempered Glass Corp. ; Nashville, TN</b>    |           |                   |                  |                    |            |
| 4012                                                                      | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        | 1416                                                     | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        |
| 1983                                                                      | COMPOSITE | 1/8               | 3.0 TPG (m)       |                    | U A        | 2497                                                     | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 3532                                                                      | COMPOSITE | 5/32              | 4.0 TPG (m)       |                    | U A        | 1467                                                     | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 1984                                                                      | COMPOSITE | 3/16              | 5.0 TPG (s)       |                    | U A        | 1417                                                     | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 2918                                                                      | COMPOSITE | 1/4               | 6.0 TPG (IN)(m)   |                    | U A        | 2494                                                     | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| <b>Louisville Plate Glass Company ; Louisville, KY</b>                    |           |                   |                   |                    |            | 2420                                                     | COMP+CAN  | 1/8               | 3.0 TPG (s)      |                    | U A        |
| 5093                                                                      | COMPOSITE | (H)               | 10 LTG (lu)(A)(6) | (.060)             | U A        | 2417                                                     | COMP+CAN  | 3/16              | 5.0 TPG (s)      |                    | U A        |
| <b>M/M Tempering Inc. ; Loganville, GA</b>                                |           |                   |                   |                    |            | <b>Nashville Tempered Glass LLC ; Hendersonville, TN</b> |           |                   |                  |                    |            |
| 4280                                                                      | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 2691                                                     | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 4281                                                                      | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | 2692                                                     | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 4282                                                                      | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        | 2693                                                     | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| <b>Maryland Glass &amp; Mirror ; Baltimore, MD</b>                        |           |                   |                   |                    |            | 2694                                                     | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 4318                                                                      | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 4148                                                     | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 4319                                                                      | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 5229                                                     | COMP+CAN  | (S)               | 6 LTG (b)(A)     | (.015)             | U A        |
| 4320                                                                      | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 5230                                                     | COMP+CAN  | (H)               | 10-12 LTG (b)(A) | (.030)             | U A        |
| 4321                                                                      | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | 5231                                                     | COMP+CAN  | (H)               | 12 LTG (ip)(A)   | (.035)             | U A        |
| 4322                                                                      | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        | <b>New Angle Beveling ; Hyde, PA</b>                     |           |                   |                  |                    |            |
| <b>McGrory Glass ; Paulsboro, NJ</b>                                      |           |                   |                   |                    |            | 4593                                                     | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |
| 4925                                                                      | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 4594                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 4813                                                                      | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 4595                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 4814                                                                      | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | 4591                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 4815                                                                      | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        | 4592                                                     | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| 4816                                                                      | COMPOSITE | 5/8               | 16.0 TTG          |                    | U A        | <b>Northwest Glass, Inc. ; Billings, MT</b>              |           |                   |                  |                    |            |
| 4817                                                                      | COMPOSITE | 3/4               | 19.0 TTG          |                    | U A        | 3649                                                     | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |
| 4818                                                                      | COMPOSITE | 1/4               | 6.0 TPG (s)       |                    | U A        | 3650                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 4819                                                                      | COMPOSITE | 3/8               | 10.0 TPG (s)      |                    | U A        | 3651                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 4820                                                                      | COMPOSITE | 1/2               | 12.0 TPG (s)      |                    | U A        | 3652                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 5262                                                                      | COMPOSITE | (s)               | 6 LTG (b)(A)      | (.025)             | U A        | 3653                                                     | COMPOSITE | 1/8               | 3.0 TPG (s)      |                    | U A        |
| 5263                                                                      | COMPOSITE | (H)               | 12 LTG (b)(A)     | (.015)             | U A        | 3655                                                     | COMPOSITE | 3/16              | 5.0 TPG (m)      |                    | U A        |
| <b>Mega Tempering ; Brooklyn, NY</b>                                      |           |                   |                   |                    |            | <b>NY Tempering LLC ; Maspeth, NY</b>                    |           |                   |                  |                    |            |
| 4299                                                                      | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 4900                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| 4300                                                                      | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | 4901                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 4301                                                                      | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        | 4902                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U U        |
|                                                                           |           |                   |                   |                    |            | 4903                                                     | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |

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| SGCC#                                                | TEST STD | INCHES (MM)          | TYPE              | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                  | TEST STD | INCHES (MM)          | TYPE              | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|------------------------------------------------------|----------|----------------------|-------------------|-----------------------|---------------|--------------------------------------------------------|----------|----------------------|-------------------|-----------------------|---------------|
|                                                      |          | (THICKNESS<br>CLASS) |                   |                       |               |                                                        |          | (THICKNESS<br>CLASS) |                   |                       |               |
| <b>Oldcastle BuildingEnvelope® ; Albertville, MN</b> |          |                      |                   |                       |               | <b>Oldcastle BuildingEnvelope® ; Denver, CO</b>        |          |                      |                   |                       |               |
| 3104                                                 | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           | 3310                                                   | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           |
| 3105                                                 | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           | 3311                                                   | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           |
| 3106                                                 | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           | 3312                                                   | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           |
| 3107                                                 | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           | 3313                                                   | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           |
| 4882                                                 | COMP+CAN | 5/16                 | 8.0 TTG           |                       | U A           | 3314                                                   | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           |
| 3108                                                 | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           | 3315                                                   | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           |
| 3109                                                 | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           | 4245                                                   | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           |
| 3110                                                 | COMP+CAN | 5/8                  | 16.0 TTG          |                       | U A           | 3317                                                   | COMP+CAN | 1/8                  | 3.0 TPG (s)       |                       | U A           |
| 3111                                                 | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           | 3318                                                   | COMP+CAN | 5/32                 | 4.0 TPG (d)       |                       | U A           |
| 3112                                                 | COMP+CAN | 5/32                 | 4.0 TPG (s)       |                       | U A           | 3319                                                   | COMP+CAN | 3/16                 | 5.0 TPG (m)       |                       | U A           |
| 3113                                                 | COMP+CAN | 3/16                 | 5.0 TPG (s)       |                       | U A           | 3320                                                   | COMP+CAN | 1/4                  | 6.0 TPG (s)       |                       | U A           |
| 3561                                                 | COMP+CAN | 1/4                  | 6.0 TPG (s)       |                       | U A           | 3321                                                   | COMP+CAN | 3/8                  | 10.0 TPG (s)      |                       | U A           |
| 3127                                                 | COMP+CAN | 3/8                  | 10.0 TPG (m)      |                       | U A           | 4455                                                   | COMP+CAN | (S)                  | 6 LTG (ip)(A)     | (.035)                | U A           |
| <b>Oldcastle BuildingEnvelope® ; Calgary, AB</b>     |          |                      |                   |                       |               | 4533                                                   | COMP+CAN | (S)                  | 6 LTG (b)(A)      | (.030)                | U A           |
| 3263                                                 | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           | 4456                                                   | COMP+CAN | (H)                  | 8-16+ LTG (ip)(A) | (.035)                | U A           |
| 3264                                                 | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           | 4454                                                   | COMP+CAN | (H)                  | 8-16+ LTG (b)(A)  | (.030)                | U A           |
| 3265                                                 | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Fremont, CA</b>       |          |                      |                   |                       |               |
| 3266                                                 | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           | 3191                                                   | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           |
| 3267                                                 | COMP+CAN | 5/16                 | 8.0 TTG           |                       | U A           | 3192                                                   | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           |
| 3268                                                 | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           | 3193                                                   | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           |
| 3269                                                 | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           | 3194                                                   | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           |
| 3270                                                 | COMP+CAN | 5/8                  | 16.0 TTG          |                       | U A           | 5387                                                   | COMP+CAN | 5/16                 | 8.0 TTG           |                       | U A           |
| 3271                                                 | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           | 3195                                                   | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           |
| 3272                                                 | COMP+CAN | 1/8                  | 3.0 TPG (m)       |                       | U A           | 3196                                                   | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           |
| 3273                                                 | COMP+CAN | 5/32                 | 4.0 TPG (d)       |                       | U A           | 4458                                                   | COMP+CAN | 5/8                  | 16.0 TTG          |                       | U A           |
| 3274                                                 | COMP+CAN | 3/16                 | 5.0 TPG (d)       |                       | U A           | 3197                                                   | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           |
| 3275                                                 | COMP+CAN | 1/4                  | 6.0 TPG (m)       |                       | U A           | 3199                                                   | COMP+CAN | 1/8                  | 3.0 TPG (s)       |                       | U A           |
| 3262                                                 | COMP+CAN | 3/8                  | 10.0 TPG (d)      |                       | U A           | 3200                                                   | COMP+CAN | 5/32                 | 4.0 TPG (s)       |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Concord, ON</b>     |          |                      |                   |                       |               | 3201                                                   | COMP+CAN | 3/16                 | 5.0 TPG (m)       |                       | U A           |
| 3439                                                 | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           | 3907                                                   | COMP+CAN | 1/4                  | 6.0 TPG (m)       |                       | U A           |
| 3440                                                 | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           | 3203                                                   | COMP+CAN | 3/8                  | 10.0 TPG (s)      |                       | U A           |
| 3441                                                 | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           | 4531                                                   | COMP+CAN | (S)                  | 6 LTG (b)(A)      | (.030)                | U A           |
| 3442                                                 | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           | 4457                                                   | COMP+CAN | (S)                  | 6 LTG (ip)(A)     | (.060)                | U A           |
| 3443                                                 | COMP+CAN | 5/16                 | 8.0 TTG           |                       | U A           | 4460                                                   | COMP+CAN | (H)                  | 8-16+ LTG (b)(A)  | (.030)                | U A           |
| 3444                                                 | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           | 4461                                                   | COMP+CAN | (H)                  | 8-16+ LTG (ip)(A) | (.060)                | U A           |
| 3445                                                 | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Grand Prairie, TX</b> |          |                      |                   |                       |               |
| 3446                                                 | COMP+CAN | 5/8                  | 16.0 TTG          |                       | U A           | 3250                                                   | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           |
| 3447                                                 | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           | 3251                                                   | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           |
| 4423                                                 | COMP+CAN | 1/8                  | 3.0 TPG (s)       |                       | U A           | 3252                                                   | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           |
| 4424                                                 | COMP+CAN | 3/16                 | 5.0 TPG (s)       |                       | U A           | 3253                                                   | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           |
| 3448                                                 | COMP+CAN | 3/8                  | 10.0 TPG (s)      |                       | U A           | 3255                                                   | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Covington, GA</b>   |          |                      |                   |                       |               | 3256                                                   | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           |
| 3329                                                 | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           | 3257                                                   | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           |
| 3330                                                 | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           | 3425                                                   | COMP+CAN | 1/8                  | 3.0 TPG (s)       |                       | U A           |
| 3331                                                 | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           | 3426                                                   | COMP+CAN | 5/32                 | 4.0 TPG (m)       |                       | U A           |
| 3332                                                 | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           | 3427                                                   | COMP+CAN | 3/16                 | 5.0 TPG (s)       |                       | U A           |
| 3333                                                 | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           | 3428                                                   | COMP+CAN | 3/8                  | 10.0 TPG (s)      |                       | U A           |
| 3334                                                 | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           | 3258                                                   | COMP+CAN | (S)                  | 6 LTG (b)(A)      | (.030)                | U A           |
| 3335                                                 | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           |                                                        |          |                      |                   |                       |               |
| 3336                                                 | COMP+CAN | 1/8                  | 3.0 TPG (s)       |                       | U A           |                                                        |          |                      |                   |                       |               |
| 3337                                                 | COMP+CAN | 5/32                 | 4.0 TPG (s)       |                       | U A           |                                                        |          |                      |                   |                       |               |
| 3338                                                 | COMP+CAN | 3/16                 | 5.0 TPG (m)       |                       | U A           |                                                        |          |                      |                   |                       |               |
| 3339                                                 | COMP+CAN | 1/4                  | 6.0 TPG (m)       |                       | U A           |                                                        |          |                      |                   |                       |               |
| 3340                                                 | COMP+CAN | 3/8                  | 10.0 TPG (s)      |                       | U A           |                                                        |          |                      |                   |                       |               |
| 4391                                                 | COMP+CAN | (S)                  | 6 LTG (b)(A)      | (.030)                | U A           |                                                        |          |                      |                   |                       |               |
| 4392                                                 | COMP+CAN | (H)                  | 10-16+ LTG (b)(A) | (.030)                | U A           |                                                        |          |                      |                   |                       |               |
| 4393                                                 | COMP+CAN | (H)                  | 10-12 LTG (ip)(A) | (.035)                | U A           |                                                        |          |                      |                   |                       |               |

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| SGCC#                                                 | TEST STD | INCHES (MM)          | TYPE              | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                | TEST STD | INCHES (MM)          | TYPE               | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|-------------------------------------------------------|----------|----------------------|-------------------|-----------------------|---------------|------------------------------------------------------|----------|----------------------|--------------------|-----------------------|---------------|
|                                                       |          | (THICKNESS<br>CLASS) |                   |                       |               |                                                      |          | (THICKNESS<br>CLASS) |                    |                       |               |
| <b>Oldcastle BuildingEnvelope® ; Hauppauge, NY</b>    |          |                      |                   |                       |               | <b>Oldcastle BuildingEnvelope® ; Los Angeles, CA</b> |          |                      |                    |                       |               |
| 1546                                                  | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           | 1608                                                 | COMP+CAN | 1/8                  | 3.0 TTG            |                       | U A           |
| 1547                                                  | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           | 1609                                                 | COMP+CAN | 5/32                 | 4.0 TTG            |                       | U A           |
| 1548                                                  | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           | 630                                                  | COMP+CAN | 3/16                 | 5.0 TTG            |                       | U A           |
| 4180                                                  | COMP+CAN | 5/16                 | 8.0 TTG           |                       | U A           | 514                                                  | COMP+CAN | 1/4                  | 6.0 TTG            |                       | U A           |
| 1549                                                  | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           | 4400                                                 | COMP+CAN | 5/16                 | 8.0 TTG            |                       | U A           |
| 1550                                                  | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           | 515                                                  | COMP+CAN | 3/8                  | 10.0 TTG           |                       | U A           |
| 4181                                                  | COMP+CAN | 5/8                  | 16.0 TTG          |                       | U A           | 516                                                  | COMP+CAN | 1/2                  | 12.0 TTG           |                       | U A           |
| 1551                                                  | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           | 4387                                                 | COMP+CAN | 5/8                  | 16.0 TTG           |                       | U A           |
| 3492                                                  | COMP+CAN | 3/16                 | 5.0 TPG (d)       |                       | U A           | 2074                                                 | COMP+CAN | 3/4                  | 19.0 TTG           |                       | U A           |
| 3392                                                  | COMP+CAN | (S)                  | 6 LTG (b)(A)      | (.030)                | U A           | 935                                                  | COMP+CAN | 3/16                 | 5.0 TPG (s)        |                       | U A           |
| 4618                                                  | COMP+CAN | (H)                  | 10-16+ LTG (b)(A) | (.030)                | U A           | 4133                                                 | COMP+CAN | 1/4                  | 6.0 TPG (s)        |                       | U A           |
| 5355                                                  | COMP+CAN | (H)                  | 12 LTG (ip)(A)    | (.035)                | U A           | 3793                                                 | COMP+CAN | 3/8                  | 10.0 TPG (d)       |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Houston, TX</b>      |          |                      |                   |                       |               | 4346                                                 | COMP+CAN | (S)                  | 6 LTG (b)(A)       | (.030)                | U A           |
| 3156                                                  | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           | 4576                                                 | COMP+CAN | (S)                  | 6 LTG (ip)(A)      | (.035)                | U A           |
| 3157                                                  | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           | 4563                                                 | COMP+CAN | (H)                  | 8-16+ LTG (b)(A)   | (.030)                | U A           |
| 3158                                                  | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           | 4561                                                 | COMP+CAN | (H)                  | 10-16+ LTG (ip)(A) | (.035)                | U A           |
| 3159                                                  | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Miami, FL</b>       |          |                      |                    |                       |               |
| 3160                                                  | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           | 3496                                                 | COMP+CAN | 1/8                  | 3.0 TTG            |                       | U A           |
| 3161                                                  | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           | 3497                                                 | COMP+CAN | 3/16                 | 5.0 TTG            |                       | U A           |
| 3163                                                  | COMP+CAN | 5/32                 | 4.0 TPG (d)       |                       | U A           | 3498                                                 | COMP+CAN | 1/4                  | 6.0 TTG            |                       | U A           |
| 3164                                                  | COMP+CAN | 3/16                 | 5.0 TPG (m)       |                       | U A           | 3499                                                 | COMP+CAN | 3/8                  | 10.0 TTG           |                       | U A           |
| 3165                                                  | COMP+CAN | 1/4                  | 6.0 TPG (m)       |                       | U A           | 3500                                                 | COMP+CAN | 1/2                  | 12.0 TTG           |                       | U A           |
| 3166                                                  | COMP+CAN | 3/8                  | 10.0 TPG (s)      |                       | U A           | 3501                                                 | COMP+CAN | 1/8                  | 3.0 TPG (s)        |                       | U A           |
| 4402                                                  | COMP+CAN | (H)                  | 8-16+ LTG (b)(A)  | (.030)                | U A           | 3502                                                 | COMP+CAN | 3/16                 | 5.0 TPG (m)        |                       | U A           |
| 4401                                                  | COMP+CAN | (H)                  | 12 LTG (ip)(A)    | (.090)                | U A           | 4477                                                 | COMP+CAN | 1/4                  | 6.0 TPG (d)        |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Indianapolis, IN</b> |          |                      |                   |                       |               | 3503                                                 | COMP+CAN | 3/8                  | 10.0 TPG (s)       |                       | U A           |
| 2210                                                  | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           | 4397                                                 | COMP+CAN | (S)                  | 6 LTG (ip)(A)      | (.030)                | U A           |
| 2216                                                  | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           | 4001                                                 | COMP+CAN | (S)                  | 6 LTG (b)(A)       | (.030)                | U A           |
| 2211                                                  | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           | 4399                                                 | COMP+CAN | (H)                  | 8-16+ LTG (ip)(A)  | (.030)                | U A           |
| 2212                                                  | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           | 4398                                                 | COMP+CAN | (H)                  | 8-16+ LTG (b)(A)   | (.030)                | U A           |
| 2213                                                  | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Moorestown, NJ</b>  |          |                      |                    |                       |               |
| 2214                                                  | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           | 3180                                                 | COMP+CAN | 1/8                  | 3.0 TTG            |                       | U A           |
| 4384                                                  | COMP+CAN | 1/8                  | 3.0 TPG (s)       |                       | U A           | 3181                                                 | COMP+CAN | 5/32                 | 4.0 TTG            |                       | U A           |
| 2215                                                  | COMP+CAN | 3/16                 | 5.0 TPG (s)       |                       | U A           | 3182                                                 | COMP+CAN | 3/16                 | 5.0 TTG            |                       | U A           |
| 3259                                                  | COMP+CAN | 3/8                  | 10.0 TPG (s)      |                       | U A           | 3183                                                 | COMP+CAN | 1/4                  | 6.0 TTG            |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Langley, BC</b>      |          |                      |                   |                       |               | 3184                                                 | COMP+CAN | 3/8                  | 10.0 TTG           |                       | U A           |
| 3286                                                  | COMP+CAN | 1/8                  | 3.0 TTG           |                       | U A           | 3185                                                 | COMP+CAN | 1/2                  | 12.0 TTG           |                       | U A           |
| 3287                                                  | COMP+CAN | 5/32                 | 4.0 TTG           |                       | U A           | 4054                                                 | COMP+CAN | 5/8                  | 16.0 TTG           |                       | U A           |
| 3288                                                  | COMP+CAN | 3/16                 | 5.0 TTG           |                       | U A           | 3186                                                 | COMP+CAN | 1/8                  | 3.0 TPG (m)        |                       | U A           |
| 3289                                                  | COMP+CAN | 1/4                  | 6.0 TTG           |                       | U A           | 3187                                                 | COMP+CAN | 5/32                 | 4.0 TPG (d)        |                       | U A           |
| 3290                                                  | COMP+CAN | 5/16                 | 8.0 TTG           |                       | U A           | 3188                                                 | COMP+CAN | 3/16                 | 5.0 TPG (m)        |                       | U A           |
| 3291                                                  | COMP+CAN | 3/8                  | 10.0 TTG          |                       | U A           | 3189                                                 | COMP+CAN | 1/4                  | 6.0 TPG (m)        |                       | U A           |
| 3292                                                  | COMP+CAN | 1/2                  | 12.0 TTG          |                       | U A           | 3190                                                 | COMP+CAN | 3/8                  | 10.0 TPG (s)       |                       | U A           |
| 3293                                                  | COMP+CAN | 5/8                  | 16.0 TTG          |                       | U A           |                                                      |          |                      |                    |                       |               |
| 3294                                                  | COMP+CAN | 3/4                  | 19.0 TTG          |                       | U A           |                                                      |          |                      |                    |                       |               |
| 3295                                                  | COMP+CAN | 1/8                  | 3.0 TPG (m)       |                       | U A           |                                                      |          |                      |                    |                       |               |
| 3296                                                  | COMP+CAN | 5/32                 | 4.0 TPG (d)       |                       | U A           |                                                      |          |                      |                    |                       |               |
| 3297                                                  | COMP+CAN | 3/16                 | 5.0 TPG (d)       |                       | U A           |                                                      |          |                      |                    |                       |               |
| 4710                                                  | COMP+CAN | 3/8                  | 10.0 TPG (s)      |                       | U A           |                                                      |          |                      |                    |                       |               |
| 4475                                                  | COMP+CAN | (S)                  | 6 LTG (b)(A)      | (.015)                | U A           |                                                      |          |                      |                    |                       |               |
| 4476                                                  | COMP+CAN | (H)                  | 8-16+ LTG (b)(A)  | (.015)                | U A           |                                                      |          |                      |                    |                       |               |
| 5215                                                  | COMP+CAN | (H)                  | 16+ LTG (ip)(A)   | (.035)                | 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>Oldcastle BuildingEnvelope® ; Perrysburg, OH</b>          |          |                                |                   |                       |               | <b>Oldcastle BuildingEnvelope® ; Schofield, WI</b> |          |                                |                  |                       |               |
| 3233                                                         | COMP+CAN | 1/8                            | 3.0 TTG           |                       | U A           | 3167                                               | COMP+CAN | 1/8                            | 3.0 TTG          |                       | U A           |
| 3234                                                         | COMP+CAN | 5/32                           | 4.0 TTG           |                       | U A           | 3168                                               | COMP+CAN | 5/32                           | 4.0 TTG          |                       | U A           |
| 3235                                                         | COMP+CAN | 3/16                           | 5.0 TTG           |                       | U A           | 3169                                               | COMP+CAN | 3/16                           | 5.0 TTG          |                       | U A           |
| 3236                                                         | COMP+CAN | 1/4                            | 6.0 TTG           |                       | U A           | 3170                                               | COMP+CAN | 1/4                            | 6.0 TTG          |                       | U A           |
| 4443                                                         | COMP+CAN | 5/16                           | 8.0 TTG           |                       | U A           | 3171                                               | COMP+CAN | 5/16                           | 8.0 TTG          |                       | U A           |
| 3237                                                         | COMP+CAN | 3/8                            | 10.0 TTG          |                       | U A           | 3172                                               | COMP+CAN | 3/8                            | 10.0 TTG         |                       | U A           |
| 3238                                                         | COMP+CAN | 1/2                            | 12.0 TTG          |                       | U A           | 3173                                               | COMP+CAN | 1/2                            | 12.0 TTG         |                       | U A           |
| 3239                                                         | COMP+CAN | 5/8                            | 16.0 TTG          |                       | U A           | 3177                                               | COMP+CAN | 5/32                           | 4.0 TPG (d)      |                       | U A           |
| 3240                                                         | COMP+CAN | 3/4                            | 19.0 TTG          |                       | U A           | 3178                                               | COMP+CAN | 3/16                           | 5.0 TPG (d)      |                       | U A           |
| 3242                                                         | COMP+CAN | 1/8                            | 3.0 TPG (s)       |                       | U A           | 3179                                               | COMP+CAN | 1/4                            | 6.0 TPG (d)      |                       | U A           |
| 3243                                                         | COMP+CAN | 3/16                           | 5.0 TPG (m)       |                       | U A           | 3176                                               | COMP+CAN | (S)                            | 6 LTG (b)(A)     | (.030)                | U A           |
| 3244                                                         | COMP+CAN | 1/4                            | 6.0 TPG (m)       |                       | U A           | 4558                                               | COMP+CAN | (H)                            | 8-16+ LTG (b)(A) | (.030)                | U A           |
| 3245                                                         | COMP+CAN | 3/8                            | 10.0 TPG (m)      |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Shawnee, OK</b>   |          |                                |                  |                       |               |
| 4700                                                         | COMP+CAN | (S)                            | 6 LTG (b)(A)      | (.030)                | U A           | 3095                                               | COMP+CAN | 1/8                            | 3.0 TTG          |                       | U A           |
| 4444                                                         | COMP+CAN | (H)                            | 8-16+ LTG (ip)(A) | (.035)                | U A           | 3096                                               | COMP+CAN | 5/32                           | 4.0 TTG          |                       | U A           |
| 4446                                                         | COMP+CAN | (H)                            | 8-16+ LTG (b)(A)  | (.030)                | U A           | 3097                                               | COMP+CAN | 3/16                           | 5.0 TTG          |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Phoenix, AZ</b>             |          |                                |                   |                       |               | 3098                                               | COMP+CAN | 1/4                            | 6.0 TTG          |                       | U A           |
| 3128                                                         | COMP+CAN | 1/8                            | 3.0 TTG           |                       | U A           | 3099                                               | COMP+CAN | 3/8                            | 10.0 TTG         |                       | U A           |
| 3129                                                         | COMP+CAN | 5/32                           | 4.0 TTG           |                       | U A           | 3100                                               | COMP+CAN | 1/2                            | 12.0 TTG         |                       | U A           |
| 3130                                                         | COMP+CAN | 3/16                           | 5.0 TTG           |                       | U A           | 3101                                               | COMP+CAN | 1/8                            | 3.0 TPG (m)      |                       | U A           |
| 3131                                                         | COMP+CAN | 1/4                            | 6.0 TTG           |                       | U A           | 3102                                               | COMP+CAN | 5/32                           | 4.0 TPG (m)      |                       | U A           |
| 3132                                                         | COMP+CAN | 3/8                            | 10.0 TTG          |                       | U A           | 3103                                               | COMP+CAN | 3/16                           | 5.0 TPG (m)      |                       | U A           |
| 3133                                                         | COMP+CAN | 1/2                            | 12.0 TTG          |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Tampa, FL</b>     |          |                                |                  |                       |               |
| 3134                                                         | COMP+CAN | 1/8                            | 3.0 TPG (s)       |                       | U A           | 3116                                               | COMP+CAN | 1/8                            | 3.0 TTG          |                       | U A           |
| 3135                                                         | COMP+CAN | 5/32                           | 4.0 TPG (s)       |                       | U A           | 3118                                               | COMP+CAN | 3/16                           | 5.0 TTG          |                       | U A           |
| 3136                                                         | COMP+CAN | 3/16                           | 5.0 TPG (m)       |                       | U A           | 3119                                               | COMP+CAN | 1/4                            | 6.0 TTG          |                       | U A           |
| 3999                                                         | COMP+CAN | 1/4                            | 6.0 TPG (s)       |                       | U A           | 3120                                               | COMP+CAN | 3/8                            | 10.0 TTG         |                       | U A           |
| 3729                                                         | COMP+CAN | 3/8                            | 10.0 TPG (s)      |                       | U A           | 3121                                               | COMP+CAN | 1/2                            | 12.0 TTG         |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Pointe-aux-Trembles, QC</b> |          |                                |                   |                       |               | 3122                                               | COMP+CAN | 1/8                            | 3.0 TPG (s)      |                       | U A           |
| 1996                                                         | COMP+CAN | 1/8                            | 3.0 TTG           |                       | U A           | 3124                                               | COMP+CAN | 3/16                           | 5.0 TPG (m)      |                       | U A           |
| 4247                                                         | COMP+CAN | 5/32                           | 4.0 TTG           |                       | U A           | 3125                                               | COMP+CAN | 1/4                            | 6.0 TPG (m)      |                       | U A           |
| 1997                                                         | COMP+CAN | 3/16                           | 5.0 TTG           |                       | U A           | 4340                                               | COMP+CAN | 3/8                            | 10.0 TPG (s)     |                       | U A           |
| 2543                                                         | COMP+CAN | 1/4                            | 6.0 TTG           |                       | U A           | 4448                                               | COMP+CAN | (S)                            | 6 LTG (b)(A)     | (.030)                | U A           |
| 2884                                                         | COMP+CAN | 5/16                           | 8.0 TTG           |                       | U A           | 4449                                               | COMP+CAN | (H)                            | 8-16+ LTG (b)(A) | (.030)                | U A           |
| 2544                                                         | COMP+CAN | 3/8                            | 10.0 TTG          |                       | U A           | 5051                                               | COMP+CAN | (H)                            | 12 LTG (ip)(A)   | (.035)                | U A           |
| 2062                                                         | COMP+CAN | 1/2                            | 12.0 TTG          |                       | U A           | <b>Oldcastle BuildingEnvelope® ; Vancouver, WA</b> |          |                                |                  |                       |               |
| 2063                                                         | COMP+CAN | 5/8                            | 16.0 TTG          |                       | U A           | 3219                                               | COMP+CAN | 1/8                            | 3.0 TTG          |                       | U A           |
| 2885                                                         | COMP+CAN | 3/4                            | 19.0 TTG          |                       | U A           | 3220                                               | COMP+CAN | 5/32                           | 4.0 TTG          |                       | U A           |
| 5025                                                         | COMP+CAN | (S)                            | 6 LTG (b)(A)      | (.030)                | U A           | 3221                                               | COMP+CAN | 3/16                           | 5.0 TTG          |                       | U A           |
| 5024                                                         | COMP+CAN | (S)                            | 6 LTG (b)(A)      | (.015)(C1)            | U B           | 3222                                               | COMP+CAN | 1/4                            | 6.0 TTG          |                       | U A           |
| 4432                                                         | COMP+CAN | (S)                            | 6 LTG (ip)(A)     | (.035)                | U A           | 3223                                               | COMP+CAN | 5/16                           | 8.0 TTG          |                       | U A           |
| 4435                                                         | COMP+CAN | (H)                            | 8-16+ LTG (b)(A)  | (.030)                | U A           | 3224                                               | COMP+CAN | 3/8                            | 10.0 TTG         |                       | U A           |
| 4433                                                         | COMP+CAN | (H)                            | 8-16+ LTG (ip)(A) | (.035)                | U A           | 3225                                               | COMP+CAN | 1/2                            | 12.0 TTG         |                       | U A           |
| <b>Oldcastle BuildingEnvelope® ; Rock Hill, SC</b>           |          |                                |                   |                       |               | 3226                                               | COMP+CAN | 1/8                            | 3.0 TPG (s)      |                       | U A           |
| 3276                                                         | COMP+CAN | 1/8                            | 3.0 TTG           |                       | U A           | 3227                                               | COMP+CAN | 5/32                           | 4.0 TPG (d)      |                       | U A           |
| 3462                                                         | COMP+CAN | 5/32                           | 4.0 TTG           |                       | U A           | 3228                                               | COMP+CAN | 3/16                           | 5.0 TPG (m)      |                       | U A           |
| 3277                                                         | COMP+CAN | 3/16                           | 5.0 TTG           |                       | U A           | 3229                                               | COMP+CAN | 1/4                            | 6.0 TPG (m)      |                       | U A           |
| 3278                                                         | COMP+CAN | 1/4                            | 6.0 TTG           |                       | U A           | 3230                                               | COMP+CAN | 3/8                            | 10.0 TPG (m)     |                       | U A           |
| 4787                                                         | COMP+CAN | 5/16                           | 8.0 TTG           |                       | U A           |                                                    |          |                                |                  |                       |               |
| 3279                                                         | COMP+CAN | 3/8                            | 10.0 TTG          |                       | U A           |                                                    |          |                                |                  |                       |               |
| 3280                                                         | COMP+CAN | 1/2                            | 12.0 TTG          |                       | U A           |                                                    |          |                                |                  |                       |               |
| 3281                                                         | COMP+CAN | 1/8                            | 3.0 TPG (s)       |                       | U A           |                                                    |          |                                |                  |                       |               |
| 4396                                                         | COMP+CAN | 5/32                           | 4.0 TPG (d)       |                       | U A           |                                                    |          |                                |                  |                       |               |
| 3283                                                         | COMP+CAN | 3/16                           | 5.0 TPG (d)       |                       | U A           |                                                    |          |                                |                  |                       |               |
| 3284                                                         | COMP+CAN | 1/4                            | 6.0 TPG (d)       |                       | U A           |                                                    |          |                                |                  |                       |               |
| 3285                                                         | COMP+CAN | 3/8                            | 10.0 TPG (d)      |                       | U A           |                                                    |          |                                |                  |                       |               |

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| SGCC#                                                               | TEST STD  | INCHES (MM)       | TYPE              | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                         | TEST STD  | INCHES (MM)       | TYPE                | MAX SIZE CERTIFIED | ANSI CLASS |
|---------------------------------------------------------------------|-----------|-------------------|-------------------|--------------------|------------|---------------------------------------------------------------|-----------|-------------------|---------------------|--------------------|------------|
|                                                                     |           | (THICKNESS CLASS) |                   |                    |            |                                                               |           | (THICKNESS CLASS) |                     |                    |            |
| <b>Oldcastle BuildingEnvelope® ; Warrenton, MO</b>                  |           |                   |                   |                    |            | <b>PGT Industries ; Nokomis, FL</b>                           |           |                   |                     |                    |            |
| 3144                                                                | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        | 2389                                                          | COMPOSITE | 1/8               | 3.0 TTG             |                    | U A        |
| 3145                                                                | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        | 2390                                                          | COMPOSITE | 3/16              | 5.0 TTG             |                    | U A        |
| 3146                                                                | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        | 2391                                                          | COMPOSITE | 1/4               | 6.0 TTG             |                    | U A        |
| 3147                                                                | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        | 3880                                                          | COMPOSITE | 1/8               | 3.0 TPG (s)         |                    | U A        |
| 3796                                                                | COMP+CAN  | 5/16              | 8.0 TTG           |                    | U A        | 3881                                                          | COMPOSITE | 3/16              | 5.0 TPG (s)         |                    | U A        |
| 3148                                                                | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        | 3482                                                          | COMPOSITE | (H)               | 8-12 LTG (ip)(A)    | (.090)             | U A        |
| 3149                                                                | COMP+CAN  | 1/2               | 12.0 TTG          |                    | U A        | 2426                                                          | COMPOSITE | (H)               | 8-12 LTG (b)(A)     | (.060)             | U A        |
| 3151                                                                | COMP+CAN  | 1/8               | 3.0 TPG (s)       |                    | U A        | 4801                                                          | COMPOSITE | (H)               | 8-10 LPG (s)(b)(A)  | (.060)             | U A        |
| 3152                                                                | COMP+CAN  | 5/32              | 4.0 TPG (s)       |                    | U A        | 4812                                                          | COMPOSITE | (H)               | 8-10 LPG (s)(ip)(A) | (.090)             | U A        |
| 3153                                                                | COMP+CAN  | 3/16              | 5.0 TPG (m)       |                    | U A        | <b>Phoenicia Flat Glass Industries ; Nazaret, Ilit Israel</b> |           |                   |                     |                    |            |
| 3154                                                                | COMP+CAN  | 1/4               | 6.0 TPG (m)       |                    | U A        | 5290                                                          | COMPOSITE | (S)               | 6 LTG (b)(A)        | (.060)             | U A        |
| 3155                                                                | COMP+CAN  | 3/8               | 10.0 TPG (d)      |                    | U A        | <b>PPG Inds. Inc. ; Barrie, ON</b>                            |           |                   |                     |                    |            |
| <b>Oldcastle BuildingEnvelope® ; Wright City, MO</b>                |           |                   |                   |                    |            | 5207                                                          | COMP+CAN  | 1/8               | 3.0 TTG             |                    | U A        |
| 3137                                                                | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        | 5204                                                          | COMP+CAN  | 5/32              | 4.0 TTG             |                    | U A        |
| 3138                                                                | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        | 5205                                                          | COMP+CAN  | 3/16              | 5.0 TTG             |                    | U A        |
| 3139                                                                | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        | 5206                                                          | COMP+CAN  | 1/4               | 6.0 TTG             |                    | U A        |
| 3140                                                                | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        | <b>PPG Inds. Inc. ; Burlington, IA</b>                        |           |                   |                     |                    |            |
| 3141                                                                | COMP+CAN  | 5/16              | 8.0 TTG           |                    | U A        | 1605                                                          | COMP+CAN  | 1/8               | 3.0 TTG             |                    | U A        |
| 3142                                                                | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        | 1606                                                          | COMP+CAN  | 5/32              | 4.0 TTG             |                    | U A        |
| 3143                                                                | COMP+CAN  | 1/2               | 12.0 TTG          |                    | U A        | 1603                                                          | COMP+CAN  | 3/16              | 5.0 TTG             |                    | U A        |
| 4526                                                                | COMP+CAN  | (S)               | 6 LTG (b)(A)      | (.030)             | U A        | 1604                                                          | COMP+CAN  | 1/4               | 6.0 TTG             |                    | U A        |
| 4528                                                                | COMP+CAN  | (S)               | 6 LTG (ip)(A)     | (.035)             | U A        | <b>PPG Inds. Inc. ; Carlisle, PA</b>                          |           |                   |                     |                    |            |
| 4529                                                                | COMP+CAN  | (H)               | 8-16+ LTG (ip)(A) | (.035)             | U A        | 250                                                           | COMP+CAN  | 1/8               | 3.0 TTG             |                    | U A        |
| 4527                                                                | COMP+CAN  | (H)               | 8-16+ LTG (b)(A)  | (.030)             | U A        | 675                                                           | COMP+CAN  | 5/32              | 4.0 TTG             |                    | U A        |
| <b>Paragon Tempered Glass ; Antwerp, OH</b>                         |           |                   |                   |                    |            | 249                                                           | COMP+CAN  | 3/16              | 5.0 TTG             |                    | U A        |
| 2684                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 382                                                           | COMP+CAN  | 1/4               | 6.0 TTG             |                    | U A        |
| 2685                                                                | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        | <b>PPG Inds., Inc. ; Wichita Falls, TX</b>                    |           |                   |                     |                    |            |
| 2686                                                                | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 1110                                                          | COMPOSITE | 1/8               | 3.0 TTG             |                    | U A        |
| 2687                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 1111                                                          | COMPOSITE | 5/32              | 4.0 TTG             |                    | U A        |
| 2688                                                                | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | 1112                                                          | COMPOSITE | 3/16              | 5.0 TTG             |                    | U A        |
| 5242                                                                | COMPOSITE | 3/16              | 5.0 TBG           |                    | U A        | 1113                                                          | COMPOSITE | 1/4               | 6.0 TTG             |                    | U A        |
| 4811                                                                | COMPOSITE | 1/4               | 6.0 TBG           |                    | U A        | 3577                                                          | COMPOSITE | 5/16              | 8.0 TTG             |                    | U A        |
| <b>Patio Enclosures ; Macedonia, OH</b>                             |           |                   |                   |                    |            | 3578                                                          | COMPOSITE | 3/8               | 10.0 TTG            |                    | U A        |
| 2056                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | <b>Prelco Inc. ; Riviere-du-loup, QC</b>                      |           |                   |                     |                    |            |
| 2057                                                                | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        | 2034                                                          | COMP+CAN  | 1/8               | 3.0 TTG             |                    | U A        |
| 3015                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 2035                                                          | COMP+CAN  | 5/32              | 4.0 TTG             |                    | U A        |
| <b>Pennsylvania Insulating Glass ; Lewistown, PA</b>                |           |                   |                   |                    |            | 2713                                                          | COMP+CAN  | 3/16              | 5.0 TTG             |                    | U A        |
| 3918                                                                | COMPOSITE | (S)               | 5-6 LTG (b)(A)    | (.030)             | U A        | 2015                                                          | COMP+CAN  | 1/4               | 6.0 TTG             |                    | U A        |
| 3919                                                                | COMPOSITE | (H)               | 8-12 LTG (b)(A)   | (.030)             | U A        | 2751                                                          | COMP+CAN  | 5/16              | 8.0 TTG             |                    | U A        |
| <b>Perficom, S.A. de C.V. ; San Juan Del Rio, Querétaro, Mexico</b> |           |                   |                   |                    |            | 2381                                                          | COMP+CAN  | 3/8               | 10.0 TTG            |                    | U A        |
| 4512                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 2048                                                          | COMP+CAN  | 1/2               | 12.0 TTG            |                    | U A        |
| <b>PFG Glass ; Langley, BC</b>                                      |           |                   |                   |                    |            | 4904                                                          | COMP+CAN  | 3/4               | 19.0 TTG            |                    | U A        |
| 3538                                                                | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        | 4905                                                          | COMP+CAN  | (S)               | 6 LTG (b)(A)        | (.030)             | U A        |
| 3539                                                                | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        | 4906                                                          | COMP+CAN  | (H)               | 8-16+ LTG (b)(A)    | (.030)             | U A        |
| 3540                                                                | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        | <b>Prelco Inc. ; Saint-Jacques, NB</b>                        |           |                   |                     |                    |            |
| 3541                                                                | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        | 4911                                                          | COMP+CAN  | 1/8               | 3.0 TTG             |                    | U A        |
| 3542                                                                | COMP+CAN  | 5/16              | 8.0 TTG           |                    | U A        | 4912                                                          | COMP+CAN  | 5/32              | 4.0 TTG             |                    | U A        |
| 3543                                                                | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        | 4913                                                          | COMP+CAN  | 3/16              | 5.0 TTG             |                    | U A        |
| 3544                                                                | COMP+CAN  | 1/2               | 12.0 TTG          |                    | U A        | 4914                                                          | COMP+CAN  | 1/4               | 6.0 TTG             |                    | U A        |
| 3547                                                                | COMP+CAN  | 1/8               | 3.0 TPG (s)       |                    | U A        | 4915                                                          | COMP+CAN  | 5/16              | 8.0 TTG             |                    | U A        |
| 3548                                                                | COMP+CAN  | 5/32              | 4.0 TPG (d)       |                    | U A        | 4916                                                          | COMP+CAN  | 3/8               | 10.0 TTG            |                    | U A        |
| 3549                                                                | COMP+CAN  | 3/16              | 5.0 TPG (m)       |                    | U A        | 4917                                                          | COMP+CAN  | 1/2               | 12.0 TTG            |                    | U A        |
| 3711                                                                | COMP+CAN  | 1/4               | 6.0 TPG (m)       |                    | U A        |                                                               |           |                   |                     |                    |            |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                                                                  | TEST STD      | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                                       | TEST STD     | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS |
|--------------------------------------------------------------------------------------------------------|---------------|-------------------|------------------|--------------------|------------|-----------------------------------------------------------------------------|--------------|-------------------|------------------|--------------------|------------|
|                                                                                                        |               | (THICKNESS CLASS) |                  |                    |            |                                                                             |              | (THICKNESS CLASS) |                  |                    |            |
| <b>Productos De Valor Agregado en Cristal S.A. de C.V. ; San Juan Ixhuatepec, Tlalnepantla, Mexico</b> |               |                   |                  |                    |            | <b>Ready Glass &amp; Mirror, Inc. ; Hialeah, FL</b>                         |              |                   |                  |                    |            |
| 4639                                                                                                   | COMPOSITE     | 3/16              | 5.0 TTG          |                    | U A        | 3745                                                                        | COMPOSITE    | 3/16              | 5.0 TTG          |                    | U A        |
| 4645                                                                                                   | COMPOSITE     | 1/4               | 6.0 TTG          |                    | U A        | 3746                                                                        | COMPOSITE    | 1/4               | 6.0 TTG          |                    | U A        |
| 4788                                                                                                   | COMPOSITE     | 5/16              | 8.0 TTG          |                    | U A        | 3747                                                                        | COMPOSITE    | 3/8               | 10.0 TTG         |                    | U A        |
| 4640                                                                                                   | COMPOSITE     | 3/8               | 10.0 TTG         |                    | U A        | 3748                                                                        | COMPOSITE    | 1/2               | 12.0 TTG         |                    | U A        |
| 4641                                                                                                   | COMPOSITE     | 1/2               | 12.0 TTG         |                    | U A        | <b>Reem Emirates Aluminum &amp; Glass ; Abu Dhabi, United Arab Emirates</b> |              |                   |                  |                    |            |
| 4642                                                                                                   | COMPOSITE     | 3/4               | 19.0 TTG         |                    | U A        | 4675                                                                        | COMPOSITE    | 1/4               | 6.0 TTG          |                    | U A        |
| <b>Protective Insulating Glass ; New Braunfels, TX</b>                                                 |               |                   |                  |                    |            | 4676                                                                        | COMPOSITE    | 5/16              | 8.0 TTG          |                    | U A        |
| 5235                                                                                                   | COMPOSITE (S) |                   | 5 LTG (b)(A)     | (.030)             | U A        | 4677                                                                        | COMPOSITE    | 3/8               | 10.0 TTG         |                    | U A        |
| 5236                                                                                                   | COMPOSITE (H) |                   | 8 LTG (b)(A)     | (.030)             | U A        | <b>RF Supply, Inc. ; Bradenton, FL</b>                                      |              |                   |                  |                    |            |
| <b>PT Abebersa Pratama ; Bekasi, Indonesia</b>                                                         |               |                   |                  |                    |            | 4225                                                                        | COMPOSITE    | 1/4               | 6.0 TTG          |                    | U A        |
| 3905                                                                                                   | COMPOSITE     | 5/32              | 4.0 TTG          |                    | U A        | 4226                                                                        | COMPOSITE    | 3/8               | 10.0 TTG         |                    | U A        |
| 3906                                                                                                   | COMPOSITE     | 3/16              | 5.0 TTG          |                    | U A        | 4227                                                                        | COMPOSITE    | 1/2               | 12.0 TTG         |                    | U A        |
| <b>Pulp Studio Inc. ; Los Angeles, CA</b>                                                              |               |                   |                  |                    |            | <b>Robover Inc. ; Quebec City, QC</b>                                       |              |                   |                  |                    |            |
| 4711                                                                                                   | COMPOSITE (H) |                   | 10-12 LTG (b)(A) | (.075)             | U A        | 5199                                                                        | COMP+CAN     | 1/8               | 3.0 TTG          |                    | U A        |
| <b>Qinhuangdao Detai Tempered Glass Co., Ltd. ; Qinhuangdao, Hebei, China</b>                          |               |                   |                  |                    |            | 5200                                                                        | COMP+CAN     | 5/32              | 4.0 TTG          |                    | U A        |
| 4156                                                                                                   | COMPOSITE     | 1/8               | 3.0 TTG          |                    | U A        | 5201                                                                        | COMP+CAN     | 3/16              | 5.0 TTG          |                    | U A        |
| <b>Qinhuangdao High Tech Energy Saving Dorwin Co., Ltd. ; Qinhuangdao, Hebei, China</b>                |               |                   |                  |                    |            | 5202                                                                        | COMP+CAN     | 1/4               | 6.0 TTG          |                    | U A        |
| 4635                                                                                                   | COMPOSITE     | 1/8               | 3.0 TTG          |                    | U A        | <b>SAAND London ; London, ON Canada</b>                                     |              |                   |                  |                    |            |
| <b>Qinhuangdao Jingxin Glass Co., Ltd. ; Qinhuangdao City, Hebei Province</b>                          |               |                   |                  |                    |            | 3978                                                                        | COMP+CAN     | 1/8               | 3.0 TTG          |                    | U A        |
| 5280                                                                                                   | COMPOSITE     | 1/8               | 3.0 TTG          |                    | U A        | 4278                                                                        | COMP+CAN     | 5/32              | 4.0 TTG          |                    | U A        |
| <b>Qinhuangdao Kunping Safety Glass Co. Ltd. ; Qinhuangdao, Hebei, China</b>                           |               |                   |                  |                    |            | 3979                                                                        | COMP+CAN     | 3/16              | 5.0 TTG          |                    | U A        |
| 3730                                                                                                   | COMPOSITE     | 1/8               | 3.0 TTG          |                    | U A        | 3980                                                                        | COMP+CAN     | 1/4               | 6.0 TTG          |                    | U A        |
| <b>Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd ; Qinhuangdao, Hebei, China</b>           |               |                   |                  |                    |            | 3981                                                                        | COMP+CAN     | 3/8               | 10.0 TTG         |                    | U A        |
| 5129                                                                                                   | COMP+CAN      | 1/2               | 12.0 TTG         |                    | U          | <b>SAAND Ottawa ; Stittsville, ON</b>                                       |              |                   |                  |                    |            |
| 5130                                                                                                   | COMP+CAN      | 5/8               | 16.0 TTG         |                    | U          | 4949                                                                        | COMP+CAN     | 1/8               | 3.0 TTG          |                    | U A        |
| <b>Qinhuangdao Qicaishi ; Qinhuangdao, Hebei, China</b>                                                |               |                   |                  |                    |            | 4950                                                                        | COMP+CAN     | 5/32              | 4.0 TTG          |                    | U A        |
| 5141                                                                                                   | COMPOSITE     | 1/8               | 3.0 TTG          |                    | U A        | 4951                                                                        | COMP+CAN     | 3/16              | 5.0 TTG          |                    | U A        |
| <b>QinHuangDao Tianrui Tempered Technology Glass Co. ; Qinhuangdao, Hebei, China</b>                   |               |                   |                  |                    |            | 4952                                                                        | COMP+CAN     | 1/4               | 6.0 TTG          |                    | U A        |
| 3690                                                                                                   | COMPOSITE     | 1/8               | 3.0 TTG          |                    | U A        | 4953                                                                        | COMP+CAN     | 3/8               | 10.0 TTG         |                    | U A        |
| <b>Quaker Window Products, Inc. ; Freeburg, MO</b>                                                     |               |                   |                  |                    |            | 4954                                                                        | COMP+CAN     | 1/2               | 12.0 TTG         |                    | U A        |
| 2985                                                                                                   | COMP+CAN      | 1/8               | 3.0 TTG          |                    | U A        | <b>SAAND Rexdale ; Rexdale, ON</b>                                          |              |                   |                  |                    |            |
| 5297                                                                                                   | COMP+CAN      | 5/32              | 4.0 TTG          |                    | U A        | 4995                                                                        | COMP+CAN     | 1/8               | 3.0 TTG          |                    | U A        |
| 2986                                                                                                   | COMP+CAN      | 3/16              | 5.0 TTG          |                    | U A        | 4996                                                                        | COMP+CAN     | 5/32              | 4.0 TTG          |                    | U A        |
| 3485                                                                                                   | COMP+CAN      | 1/4               | 6.0 TTG          |                    | U A        | 4997                                                                        | COMP+CAN     | 3/16              | 5.0 TTG          |                    | U A        |
| 2968                                                                                                   | COMP+CAN      | 1/8               | 3.0 TPG (m)      |                    | U A        | 4998                                                                        | COMP+CAN     | 1/4               | 6.0 TTG          |                    | U A        |
| 2969                                                                                                   | COMP+CAN      | 5/32              | 4.0 TPG (IN)(m)  |                    | U A        | 4999                                                                        | COMP+CAN     | 3/8               | 10.0 TTG         |                    | U A        |
| 3486                                                                                                   | COMP+CAN      | 3/16              | 5.0 TPG (m)      |                    | U A        | 5000                                                                        | COMP+CAN     | 1/2               | 12.0 TTG         |                    | U A        |
| 2970                                                                                                   | COMP+CAN      | 1/4               | 6.0 TPG (IN)(m)  |                    | U A        | 5008                                                                        | COMP+CAN     | 5/8               | 15.0 TTG (3)     |                    | U A        |
| <b>Quality Glass &amp; Mirror, Inc. ; Mount Prospect, IL</b>                                           |               |                   |                  |                    |            | 5007                                                                        | COMP+CAN     | 3/4               | 19.0 TTG         |                    | U A        |
| 2981                                                                                                   | COMPOSITE     | 3/16              | 5.0 TTG          |                    | U A        | 5003                                                                        | COMP+CAN     | 1/8               | 3.0 TPG (s)      |                    | U A        |
| 2982                                                                                                   | COMPOSITE     | 1/4               | 6.0 TTG          |                    | U A        | 5004                                                                        | COMP+CAN     | 5/32              | 4.0 TPG (s)      |                    | U A        |
| 2983                                                                                                   | COMPOSITE     | 3/8               | 10.0 TTG         |                    | U A        | 5005                                                                        | COMP+CAN     | 3/16              | 5.0 TPG (s)      |                    | U A        |
| 2984                                                                                                   | COMPOSITE     | 1/2               | 12.0 TTG         |                    | U A        | 5006                                                                        | COMP+CAN     | 3/8               | 10.0 TPG (s)     |                    | U A        |
| 3805                                                                                                   | COMPOSITE     | 3/4               | 19.0 TTG         |                    | U A        | 5001                                                                        | COMP+CAN (S) |                   | 4-6 LTG (b)(A)   | (.030)             | U A        |
|                                                                                                        |               |                   |                  |                    |            | 5002                                                                        | COMP+CAN (H) |                   | 8-16+ LTG (b)(A) | (.030)             | U A        |
|                                                                                                        |               |                   |                  |                    |            | <b>SAAND Toronto ; Toronto, ON Canada</b>                                   |              |                   |                  |                    |            |
|                                                                                                        |               |                   |                  |                    |            | 2481                                                                        | COMP+CAN     | 1/8               | 3.0 TTG          |                    | U A        |
|                                                                                                        |               |                   |                  |                    |            | 2482                                                                        | COMP+CAN     | 5/32              | 4.0 TTG          |                    | U A        |
|                                                                                                        |               |                   |                  |                    |            | 3023                                                                        | COMP+CAN     | 3/16              | 5.0 TTG          |                    | U A        |
|                                                                                                        |               |                   |                  |                    |            | 2484                                                                        | COMP+CAN     | 1/4               | 6.0 TTG          |                    | U A        |
|                                                                                                        |               |                   |                  |                    |            | 4356                                                                        | COMP+CAN     | 5/16              | 8.0 TTG          |                    | U A        |
|                                                                                                        |               |                   |                  |                    |            | 4357                                                                        | COMP+CAN     | 3/8               | 10.0 TTG         |                    | U A        |
|                                                                                                        |               |                   |                  |                    |            | 4358                                                                        | COMP+CAN     | 1/2               | 12.0 TTG         |                    | U A        |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                               | TEST STD  | INCHES (MM)       | TYPE              | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                             | TEST STD  | INCHES (MM)       | TYPE            | MAX SIZE CERTIFIED | ANSI CLASS |
|---------------------------------------------------------------------|-----------|-------------------|-------------------|--------------------|------------|---------------------------------------------------|-----------|-------------------|-----------------|--------------------|------------|
|                                                                     |           | (THICKNESS CLASS) |                   |                    |            |                                                   |           | (THICKNESS CLASS) |                 |                    |            |
| <b>SAGE Electrochromics Inc. ; Faribault, MN</b>                    |           |                   |                   |                    |            | <b>SIGCO, Inc. ; Westbrook, ME</b>                |           |                   |                 |                    |            |
| 5016                                                                | COMP+CAN  | (H)               | 8-12 LSP (ip)(A)  | (.030)             | U A        | 2961                                              | COMPOSITE | 1/8               | 3.0 TTG         |                    | U A        |
| <b>Saint Gobain Mexico, S.A. de C.V. ; Cuautla, Morelos, Mexico</b> |           |                   |                   |                    |            | 2962                                              | COMPOSITE | 5/32              | 4.0 TTG         |                    | U A        |
| 2743                                                                | COMPOSITE | (S)               | 6 LTG (b)(A)      | (.030)             | U A        | 2963                                              | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        |
| 2269                                                                | ANSI ONLY | (S)               | 6 LTG (b)(A)      | (.015)(C1)         | U B        | 2964                                              | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        |
| 2332                                                                | COMPOSITE | (H)               | 8, 12 LTG (b)(A)  | (.030)             | U A        | 5213                                              | COMPOSITE | 5/16              | 8.0 TTG         |                    | U A        |
| 2267                                                                | ANSI ONLY | (H)               | 8-10 LTG (b)(A)   | (.015)(C1)         | U B        | 2965                                              | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        |
| 3479                                                                | COMPOSITE | (H)               | 10 LTG (b)(A)     | (.090)             | U A        | 2966                                              | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        |
| <b>Saint-Gobain SOVIS ; Thierry, France</b>                         |           |                   |                   |                    |            | 4326                                              | COMPOSITE | 5/8               | 16.0 TTG        |                    | U A        |
| 2769                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 4327                                              | COMPOSITE | 3/4               | 19.0 TTG        |                    | U A        |
| 2248                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 4543                                              | COMPOSITE | 1/8               | 3.0 TPG (m)     |                    | U A        |
| 1992                                                                | COMPOSITE | 5/32              | 4.0 TBG           |                    | U A        | 2967                                              | COMPOSITE | 5/32              | 4.0 TPG (s)     |                    | U A        |
| 2770                                                                | COMPOSITE | 3/16              | 5.0 TBG           |                    | U A        | 3028                                              | COMPOSITE | 3/16              | 5.0 TPG (m)     |                    | U A        |
| 1864                                                                | COMPOSITE | 1/4               | 6.0 TBG           |                    | U A        | 4206                                              | COMPOSITE | 3/8               | 10.0 TPG (s)    |                    | U A        |
| <b>SCHOTT Gemtron - Sweetwater ; Sweetwater, TN</b>                 |           |                   |                   |                    |            | <b>Simonton Windows ; Ellenboro, WV</b>           |           |                   |                 |                    |            |
| 1334                                                                | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        | 2887                                              | COMPOSITE | 1/8               | 3.0 TTG         |                    | U A        |
| 1332                                                                | COMP+CAN  | 5/32              | 4.0 TTG           |                    | U A        | 2888                                              | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        |
| 1201                                                                | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        | <b>Simonton Windows ; Paris, IL</b>               |           |                   |                 |                    |            |
| 1477                                                                | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        | 4979                                              | COMPOSITE | 1/8               | 3.0 TTG         |                    | U A        |
| 1422                                                                | COMP+CAN  | 1/8               | 3.0 TPG (s)       |                    | U A        | 4978                                              | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        |
| 1424                                                                | COMP+CAN  | 5/32              | 4.0 TPG (s)       |                    | U A        | <b>Solar Seal Company ; South Easton, MA</b>      |           |                   |                 |                    |            |
| <b>SCHOTT Gemtron (Canada) Corporation ; Midland, ON Canada</b>     |           |                   |                   |                    |            | 3001                                              | COMPOSITE | 1/8               | 3.0 TTG         |                    | U A        |
| 3067                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        | 1871                                              | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        |
| 3659                                                                | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        | 1035                                              | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        |
| 3636                                                                | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 1036                                              | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        |
| 3637                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 1037                                              | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        |
| <b>Shanghai Mingte Glass Technology Co., Ltd. ; Shanghai, China</b> |           |                   |                   |                    |            | 1939                                              | COMPOSITE | 3/16              | 5.0 TPG (s)     |                    | U A        |
| 4933                                                                | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        | <b>Solar Seal Connecticut ; Hamden, CT</b>        |           |                   |                 |                    |            |
| 4934                                                                | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        | 4523                                              | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        |
| 4935                                                                | COMP+CAN  | 1/2               | 12.0 TTG          |                    | U A        | <b>Swift Glass Co., Inc. ; Elmira Heights, NY</b> |           |                   |                 |                    |            |
| <b>Shanghai SYP Building Glass ; Shanghai, China</b>                |           |                   |                   |                    |            | 1555                                              | COMPOSITE | 1/8               | 3.0 TTG         |                    | U A        |
| 2779                                                                | COMPOSITE | (S)               | 6 LTG (b)(A)      | (.030)             | U A        | 1556                                              | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        |
| 4353                                                                | COMPOSITE | (H)               | 8 LTG (b)(A)      | (.030)             | U A        | 1557                                              | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        |
| 4807                                                                | COMPOSITE | (H)               | 8-16+ LTG (ip)(A) | (.035)             | U A        | 1558                                              | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        |
| 2780                                                                | COMPOSITE | (H)               | 10-16+ LTG (b)(A) | (.015)             | U A        | 1559                                              | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        |
| <b>Shanghai SYP Engineering Glass ; Shanghai, China</b>             |           |                   |                   |                    |            | <b>Syracuse Glass Co., Inc. ; Syracuse, NY</b>    |           |                   |                 |                    |            |
| 4067                                                                | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        | 2654                                              | COMPOSITE | 1/8               | 3.0 TTG         |                    | U A        |
| 4068                                                                | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        | 2957                                              | COMPOSITE | 3/16              | 5.0 TTG         |                    | U A        |
| 4069                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        | 2656                                              | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        |
| 4070                                                                | COMPOSITE | 5/16              | 8.0 TTG           |                    | U A        | 2958                                              | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        |
| 4071                                                                | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        | 2657                                              | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        |
| 4072                                                                | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        | <b>Tacoma Glass Mfg. Inc. ; Burlington, WA</b>    |           |                   |                 |                    |            |
| 4073                                                                | COMPOSITE | *                 | 15.0 TTG (3)      |                    | U A        | 5165                                              | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        |
| 4074                                                                | COMPOSITE | 3/4               | 19.0 TTG          |                    | U A        | 5166                                              | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        |
|                                                                     |           |                   |                   |                    |            | 5167                                              | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        |
|                                                                     |           |                   |                   |                    |            | 5168                                              | COMPOSITE | 3/4               | 19.0 TTG        |                    | U A        |
|                                                                     |           |                   |                   |                    |            | <b>Tacoma Glass Mfg. Inc. ; Lakewood, WA</b>      |           |                   |                 |                    |            |
|                                                                     |           |                   |                   |                    |            | 4730                                              | COMPOSITE | 1/4               | 6.0 TTG         |                    | U A        |
|                                                                     |           |                   |                   |                    |            | 4731                                              | COMPOSITE | 3/8               | 10.0 TTG        |                    | U A        |
|                                                                     |           |                   |                   |                    |            | 4732                                              | COMPOSITE | 1/2               | 12.0 TTG        |                    | U A        |
|                                                                     |           |                   |                   |                    |            | 5112                                              | COMPOSITE | (S)               | 6 LTG (b)(A)    | (.030)             | U A        |
|                                                                     |           |                   |                   |                    |            | 4735                                              | COMPOSITE | (H)               | 8-12 LTG (b)(A) | (.030)             | U A        |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                                    | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                                               | TEST STD  | INCHES (MM)       | TYPE              | MAX SIZE CERTIFIED | ANSI CLASS |
|--------------------------------------------------------------------------|-----------|-------------------|------------------|--------------------|------------|-------------------------------------------------------------------------------------|-----------|-------------------|-------------------|--------------------|------------|
|                                                                          |           | (THICKNESS CLASS) |                  |                    |            |                                                                                     |           | (THICKNESS CLASS) |                   |                    |            |
| <b>Tai Shan City Da Heng Art Glass Ltd. ; Tai Shan, Guangdong, China</b> |           |                   |                  |                    |            | <b>Texas Tempered, a Trulite Glass and Aluminum Solutions Company ; Houston, TX</b> |           |                   |                   |                    |            |
| 3787                                                                     | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        | 4847                                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| 3788                                                                     | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 4848                                                                                | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 3789                                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        | 4849                                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| <b>Tai Sheng (Dong Guan) Glass Co.,Ltd ; Dongguan, Guangdong, China</b>  |           |                   |                  |                    |            | 4850                                                                                | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        |
| 4870                                                                     | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 4851                                                                                | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        |
| 4872                                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | 5365                                                                                | COMPOSITE | 3/4               | 19.0 TTG          |                    | U A        |
| 4873                                                                     | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        | <b>TG Changjiang Glass Co., Ltd ; Kunshan City, Jiangsu, China</b>                  |           |                   |                   |                    |            |
| 5067                                                                     | COMPOSITE | 5/32              | 4.0 TPG (m)      |                    | U A        | 5177                                                                                | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        |
| 5068                                                                     | COMPOSITE | 1/4               | 6.0 TPG (m)      |                    | U A        | 5178                                                                                | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        |
| <b>Taiwan Glass Industry Corp. ; Taipei, Taiwan, China</b>               |           |                   |                  |                    |            | 5179                                                                                | COMP+CAN  | 5/16              | 8.0 TTG           |                    | U A        |
| 3886                                                                     | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 5176                                                                                | COMP+CAN  | (H)               | 10-16+ LTG (b)(A) | (.015)             | U A        |
| 3887                                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        | <b>The Original Frameless Shower Door ; Coral Springs, FL</b>                       |           |                   |                   |                    |            |
| 3888                                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | 4661                                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 3889                                                                     | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        | 4662                                                                                | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        |
| 3890                                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        | 4663                                                                                | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        |
| 3891                                                                     | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        | <b>Thermal Seal Insulating Glass ; Uxbridge, MA</b>                                 |           |                   |                   |                    |            |
| 3892                                                                     | COMPOSITE | (S)               | 6 LTG (b)(A)     | (.015)             | U A        | 4830                                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| 3893                                                                     | COMPOSITE | (H)               | 12 LTG (b)(A)    | (.015)             | U A        | 4822                                                                                | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        |
| <b>Techni-Glass, Inc. ; Surgoinville, TN</b>                             |           |                   |                  |                    |            | 4823                                                                                | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 2547                                                                     | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        | 4824                                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 2548                                                                     | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        | 4825                                                                                | COMPOSITE | 3/8               | 10.0 TTG          |                    | U A        |
| 2549                                                                     | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | 4826                                                                                | COMPOSITE | 1/2               | 12.0 TTG          |                    | U A        |
| 2975                                                                     | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 4831                                                                                | COMPOSITE | 1/8               | 3.0 TPG (s)       |                    | U A        |
| 3062                                                                     | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        | <b>Thermo BSL ; Riviere-du-loup, QC</b>                                             |           |                   |                   |                    |            |
| 4509                                                                     | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        | 4290                                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| 4510                                                                     | COMP+CAN  | 5/8               | 16.0 TTG         |                    | U A        | 4291                                                                                | COMPOSITE | 5/32              | 4.0 TTG           |                    | U A        |
| 3061                                                                     | COMP+CAN  | 1/8               | 3.0 TPG (m)      |                    | U A        | 4292                                                                                | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 5050                                                                     | COMP+CAN  | 5/32              | 4.0 TPG (m)      |                    | U A        | 4293                                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 2550                                                                     | COMP+CAN  | 3/16              | 5.0 TPG (m)      |                    | U A        | <b>Thermoseal Industries, LLC ; Gloucester City, NJ</b>                             |           |                   |                   |                    |            |
| 3060                                                                     | COMP+CAN  | 1/4               | 6.0 TPG (m)      |                    | U A        | 4468                                                                                | COMPOSITE | 1/8               | 3.0 TTG           |                    | U A        |
| <b>Tecnoglass S.A. ; Barranquilla, Colombia</b>                          |           |                   |                  |                    |            | 4470                                                                                | COMPOSITE | 3/16              | 5.0 TTG           |                    | U A        |
| 2133                                                                     | COMP+CAN  | 1/8               | 3.0 TTG          |                    | U A        | 4471                                                                                | COMPOSITE | 1/4               | 6.0 TTG           |                    | U A        |
| 2287                                                                     | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        | <b>Thompson I.G. LLC. ; Fenton, MI</b>                                              |           |                   |                   |                    |            |
| 1993                                                                     | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | 5303                                                                                | COMP+CAN  | 1/8               | 3.0 TTG           |                    | U A        |
| 1994                                                                     | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 5304                                                                                | COMP+CAN  | 3/16              | 5.0 TTG           |                    | U A        |
| 2134                                                                     | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        | 5305                                                                                | COMP+CAN  | 1/4               | 6.0 TTG           |                    | U A        |
| 1995                                                                     | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        | 5298                                                                                | COMP+CAN  | 3/8               | 10.0 TTG          |                    | U A        |
| 2135                                                                     | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        | 5299                                                                                | COMP+CAN  | 1/2               | 12.0 TTG          |                    | U A        |
| 2365                                                                     | COMP+CAN  | 5/8               | 16.0 TTG         |                    | U A        | 5300                                                                                | COMP+CAN  | (S)               | 6 LTG (b)(A)      | (.030)             | U A        |
| 2894                                                                     | COMP+CAN  | 3/4               | 19.0 TTG         |                    | U A        | 5302                                                                                | COMP+CAN  | (H)               | 8 LTG (b)(A)      | (.060)             | U A        |
| 4003                                                                     | COMP+CAN  | (H)               | 8-16+ LTG (b)(A) | (.030)             | U A        | 5301                                                                                | COMP+CAN  | (H)               | 10-12 LTG (b)(A)  | (.030)             | U A        |
| <b>Tempco Glass ; Flushing, NY</b>                                       |           |                   |                  |                    |            |                                                                                     |           |                   |                   |                    |            |
| 5009                                                                     | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |                                                                                     |           |                   |                   |                    |            |
| 5010                                                                     | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |                                                                                     |           |                   |                   |                    |            |
| 5011                                                                     | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |                                                                                     |           |                   |                   |                    |            |
| 5012                                                                     | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |                                                                                     |           |                   |                   |                    |            |
| 5013                                                                     | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |                                                                                     |           |                   |                   |                    |            |



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| SGCC#                                                                      | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS | SGCC#                                                        | TEST STD  | INCHES (MM)       | TYPE             | MAX SIZE CERTIFIED | ANSI CLASS |
|----------------------------------------------------------------------------|-----------|-------------------|------------------|--------------------|------------|--------------------------------------------------------------|-----------|-------------------|------------------|--------------------|------------|
|                                                                            |           | (THICKNESS CLASS) |                  |                    |            |                                                              |           | (THICKNESS CLASS) |                  |                    |            |
| <b>Tianjin CSG Energy Conservation Glass Co., Ltd ; Tianjin, China</b>     |           |                   |                  |                    |            | <b>Triview Glass Industries ; City of Industry, CA</b>       |           |                   |                  |                    |            |
| 4021                                                                       | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 5039                                                         | COMP+CAN  | 5/32              | 4.0 TTG          |                    | U A        |
| 4022                                                                       | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        | 5040                                                         | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        |
| 4023                                                                       | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | 5041                                                         | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        |
| 4024                                                                       | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        | 5042                                                         | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        |
| 4025                                                                       | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        | 5043                                                         | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        |
| 4026                                                                       | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        | 5044                                                         | COMP+CAN  | 1/2               | 12.0 TTG         |                    | U A        |
| 4027                                                                       | COMPOSITE | *                 | 15.0 TTG (3)     |                    | U A        | 5045                                                         | COMP+CAN  | 5/8               | 16.0 TTG         |                    | U A        |
| 4028                                                                       | COMPOSITE | 3/4               | 19.0 TTG         |                    | U A        | 5046                                                         | COMP+CAN  | 3/4               | 19.0 TTG         |                    | U A        |
| 4030                                                                       | COMPOSITE | (H)               | 8 LTG (b)(A)     | (.030)             | U A        | 5047                                                         | COMP+CAN  | (S)               | 6 LTG (b)(A)     | (.030)             | U A        |
| 4106                                                                       | COMPOSITE | (H)               | 10 LTG (b)(A)    | (.045)             | U A        | 5048                                                         | COMP+CAN  | (H)               | 8 LTG (b)(A)     | (.060)             | U A        |
| 4107                                                                       | COMPOSITE | (H)               | 12 LTG (b)(A)    | (.060)             | U A        | <b>Troy Systems LLC ; Manassas, VA</b>                       |           |                   |                  |                    |            |
| 4108                                                                       | COMPOSITE | (H)               | 16+ LTG (b)(A)   | (.090)             | U A        | 4918                                                         | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| <b>TianJin Dong Sung Home Building Materials Co. Ltd. ; Tianjin, China</b> |           |                   |                  |                    |            | 4061                                                         | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 2889                                                                       | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        | 4062                                                         | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 4035                                                                       | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 4063                                                         | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| 2890                                                                       | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        | 5123                                                         | COMPOSITE | 3/8               | 10.0 TPG (s)     |                    | U A        |
| 3094                                                                       | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | <b>Trulite Glass and Aluminum Solutions ; Atlanta, GA</b>    |           |                   |                  |                    |            |
| 3460                                                                       | COMPOSITE | 5/32              | 4.0 TPG (d)      |                    | U A        | 2959                                                         | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |
| 3431                                                                       | COMPOSITE | 3/16              | 5.0 TPG (m)      |                    | U A        | 862                                                          | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| <b>Tianjin Northglass Industrial Technical Co., Ltd ; Tianjin, China</b>   |           |                   |                  |                    |            | 863                                                          | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 5220                                                                       | COMPOSITE | 5/16              | 8.0 TTG          |                    | U A        | 865                                                          | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 5221                                                                       | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        | 866                                                          | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| 5223                                                                       | COMPOSITE | (H)               | 18+ LTG (ip)(A)  | (.015)             | U A        | 4089                                                         | COMPOSITE | 5/8               | 16.0 TTG         |                    | U A        |
| <b>Tianjin SYP Engineering Glass ; Tianjin, China</b>                      |           |                   |                  |                    |            | 2960                                                         | COMPOSITE | 3/4               | 19.0 TTG         |                    | U A        |
| 4075                                                                       | COMP+CAN  | 3/16              | 5.0 TTG          |                    | U A        | 4090                                                         | COMPOSITE | 1/8               | 3.0 TPG (s)      |                    | U A        |
| 4076                                                                       | COMP+CAN  | 1/4               | 6.0 TTG          |                    | U A        | 3554                                                         | COMPOSITE | 3/16              | 5.0 TPG (s)      |                    | U A        |
| 4077                                                                       | COMP+CAN  | 5/16              | 8.0 TTG          |                    | U A        | 4555                                                         | COMPOSITE | 1/4               | 6.0 TPG (m)      |                    | U A        |
| 4078                                                                       | COMP+CAN  | 3/8               | 10.0 TTG         |                    | U A        | 4554                                                         | COMPOSITE | 3/8               | 10.0 TPG (s)     |                    | U A        |
| 4079                                                                       | COMP+CAN  | *                 | 12.0 TTG (3)     |                    | U A        | 3536                                                         | COMPOSITE | (S)               | 6 LTG (b)(A)     | (.030)             | U A        |
| 4080                                                                       | COMP+CAN  | *                 | 15.0 TTG (3)     |                    | U A        | <b>Trulite Glass and Aluminum Solutions ; Aurora, CO</b>     |           |                   |                  |                    |            |
| 4081                                                                       | COMP+CAN  | 3/4               | 19.0 TTG         |                    | U A        | 5341                                                         | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        |
| 4083                                                                       | COMP+CAN  | (S)               | 6 LTG (b)(A)     | (.030)             | U A        | 5348                                                         | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        |
| 4084                                                                       | COMP+CAN  | (H)               | 8-16+ LTG (b)(A) | (.015)             | U A        | 5342                                                         | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        |
| <b>Tri-Star Glass ; Grand Prairie, TX</b>                                  |           |                   |                  |                    |            | 5343                                                         | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        |
| 5108                                                                       | ANSI ONLY | 3/16              | 5.0 TTG          |                    | U A        | 5344                                                         | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        |
| 5109                                                                       | ANSI ONLY | 1/4               | 6.0 TTG          |                    | U A        | 5345                                                         | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        |
| <b>Tri-Star Glass ; Tulsa, OK</b>                                          |           |                   |                  |                    |            | 5346                                                         | COMPOSITE | 3/4               | 19.0 TTG         |                    | U A        |
| 4004                                                                       | COMPOSITE | 1/8               | 3.0 TTG          |                    | U A        | 5347                                                         | COMPOSITE | 1/8               | 3.0 TPG          |                    | U A        |
| 4005                                                                       | COMPOSITE | 5/32              | 4.0 TTG          |                    | U A        | 5350                                                         | COMPOSITE | 3/8               | 10.0 TPG (s)     |                    | U A        |
| 4006                                                                       | COMPOSITE | 3/16              | 5.0 TTG          |                    | U A        | <b>Trulite Glass and Aluminum Solutions ; Carbondale, PA</b> |           |                   |                  |                    |            |
| 4007                                                                       | COMPOSITE | 1/4               | 6.0 TTG          |                    | U A        | 4977                                                         | COMPOSITE | (S)               | 5 LTG (b)(A)     | (.015)(C1)         | U B        |
| 4008                                                                       | COMPOSITE | 3/8               | 10.0 TTG         |                    | U A        | 5214                                                         | COMPOSITE | (S)               | 6 LTG (b)(A)     | (.030)             | U A        |
| 4009                                                                       | COMPOSITE | 1/2               | 12.0 TTG         |                    | U A        | 4976                                                         | COMPOSITE | (H)               | 8 LTG (b)(A)     | (.090)             | U A        |
| 4010                                                                       | COMPOSITE | 5/32              | 4.0 TPG (s)      |                    | U A        | 4232                                                         | COMPOSITE | (H)               | 10-12 LTG (b)(A) | (.030)             | U A        |
| 4011                                                                       | COMPOSITE | 3/16              | 5.0 TPG (s)      |                    | U A        |                                                              |           |                   |                  |                    |            |
| 5441                                                                       | COMPOSITE | (S)               | 6 LTG (b)(A)     | (.030)             | U A        |                                                              |           |                   |                  |                    |            |
| 4411                                                                       | COMPOSITE | (H)               | 10-12 LTG (b)(A) | (.030)             | U A        |                                                              |           |                   |                  |                    |            |

**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 ; City of Industry, CA</b> |           |                                |      |                   |                       |               | <b>Trulite Glass and Aluminum Solutions ; Houston, TX</b>      |           |                                |      |               |                       |               |
| 4182                                                               | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 5432                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG       |                       | U A           |
| 4183                                                               | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           | 3925                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG       |                       | U A           |
| 4184                                                               | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 3926                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG       |                       | U A           |
| 4185                                                               | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 3927                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG      |                       | U A           |
| 4186                                                               | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 3928                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG      |                       | U A           |
| 4187                                                               | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 5433                                                           | COMPOSITE | 1/8                            |      | 3.0 TPG (s)   |                       | U A           |
| 4522                                                               | COMPOSITE | 5/8                            |      | 16.0 TTG          |                       | U A           | 3931                                                           | COMPOSITE | 3/16                           |      | 5.0 TPG (s)   |                       | U A           |
| 4371                                                               | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           | 5434                                                           | COMPOSITE | (S)                            |      | 6 LTG (b)(A)  | (.035)                | U A           |
| 4188                                                               | COMPOSITE | 1/8                            |      | 3.0 TPG (s)       |                       | U A           | 4667                                                           | COMPOSITE | (H)                            |      | 12 LTG (b)(A) | (.030)                | U A           |
| 4372                                                               | COMPOSITE | 5/32                           |      | 4.0 TPG (s)       |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; Indianapolis, IN</b> |           |                                |      |               |                       |               |
| 4373                                                               | COMPOSITE | 3/16                           |      | 5.0 TPG (s)       |                       | U A           | 4749                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG       |                       | U A           |
| 4189                                                               | COMPOSITE | 1/4                            |      | 6.0 TPG (s)       |                       | U A           | 4752                                                           | COMPOSITE | 5/32                           |      | 4.0 TTG       |                       | U A           |
| 4374                                                               | COMPOSITE | 3/8                            |      | 10.0 TPG (s)      |                       | U A           | 4922                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG       |                       | U A           |
| 4233                                                               | COMPOSITE | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           | 4923                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG       |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Columbus, OH</b>         |           |                                |      |                   |                       |               | 4754                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG      |                       | U A           |
| 4745                                                               | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 4753                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG      |                       | U A           |
| 4746                                                               | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 4750                                                           | COMPOSITE | 3/16                           |      | 5.0 TPG (s)   |                       | U A           |
| 4747                                                               | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; Knoxville, TN</b>    |           |                                |      |               |                       |               |
| 4748                                                               | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 4209                                                           | COMP+CAN  | 1/8                            |      | 3.0 TTG       |                       | U A           |
| 3407                                                               | COMPOSITE | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           | 4827                                                           | COMP+CAN  | 5/32                           |      | 4.0 TTG       |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Fall River, MA</b>       |           |                                |      |                   |                       |               | 4152                                                           | COMP+CAN  | 3/16                           |      | 5.0 TTG       |                       | U A           |
| 1518                                                               | COMP+CAN  | 1/8                            |      | 3.0 TTG           |                       | U A           | 4153                                                           | COMP+CAN  | 1/4                            |      | 6.0 TTG       |                       | U A           |
| 3553                                                               | COMP+CAN  | 5/32                           |      | 4.0 TTG           |                       | U A           | 4158                                                           | COMP+CAN  | 3/8                            |      | 10.0 TTG      |                       | U A           |
| 3648                                                               | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           | 4159                                                           | COMP+CAN  | 1/2                            |      | 12.0 TTG      |                       | U A           |
| 1520                                                               | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 4207                                                           | COMP+CAN  | 1/8                            |      | 3.0 TPG (m)   |                       | U A           |
| 1521                                                               | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           | 4981                                                           | COMP+CAN  | 5/32                           |      | 4.0 TPG (d)   |                       | U A           |
| 1522                                                               | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           | 4160                                                           | COMP+CAN  | 3/16                           |      | 5.0 TPG (d)   |                       | U A           |
| 4964                                                               | COMP+CAN  | 1/8                            |      | 3.0 TPG (s)       |                       | U A           | 4980                                                           | COMP+CAN  | 1/4                            |      | 6.0 TPG (d)   |                       | U A           |
| 2160                                                               | COMP+CAN  | 5/32                           |      | 4.0 TPG (s)       |                       | U A           | 5134                                                           | COMP+CAN  | 3/8                            |      | 10.0 TPG (s)  |                       | U A           |
| 1523                                                               | COMP+CAN  | 3/16                           |      | 5.0 TPG (m)       |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; Las Vegas, NV</b>    |           |                                |      |               |                       |               |
| 4965                                                               | COMP+CAN  | 3/8                            |      | 10.0 TPG (s)      |                       | U A           | 4210                                                           | COMPOSITE | 1/8                            |      | 3.0 TTG       |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Fort Worth, TX</b>       |           |                                |      |                   |                       |               | 4211                                                           | COMPOSITE | 5/32                           |      | 4.0 TTG       |                       | U A           |
| 3603                                                               | COMPOSITE | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           | 4212                                                           | COMPOSITE | 3/16                           |      | 5.0 TTG       |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Grenada, MS</b>          |           |                                |      |                   |                       |               | 4213                                                           | COMPOSITE | 1/4                            |      | 6.0 TTG       |                       | U A           |
| 2787                                                               | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 4214                                                           | COMPOSITE | 3/8                            |      | 10.0 TTG      |                       | U A           |
| 2788                                                               | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 4215                                                           | COMPOSITE | 1/2                            |      | 12.0 TTG      |                       | U A           |
| 2789                                                               | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 4216                                                           | COMPOSITE | 3/4                            |      | 19.0 TTG      |                       | U A           |
| 2840                                                               | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 4217                                                           | COMPOSITE | 1/8                            |      | 3.0 TPG (s)   |                       | U A           |
| 4601                                                               | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 4218                                                           | COMPOSITE | 5/32                           |      | 4.0 TPG (m)   |                       | U A           |
| 4743                                                               | COMPOSITE | (S)                            |      | 5-6 LTG (b)(A)    | (.030)                | U A           | 4219                                                           | COMPOSITE | 3/16                           |      | 5.0 TPG (m)   |                       | U A           |
| 4755                                                               | COMPOSITE | (H)                            |      | 8 LTG (b)(A)      | (.090)                | U A           | 4220                                                           | COMPOSITE | 1/4                            |      | 6.0 TPG (m)   |                       | U A           |
| 4744                                                               | COMPOSITE | (H)                            |      | 10-16+ LTG (b)(A) | (.030)                | U A           | 4221                                                           | COMPOSITE | 3/8                            |      | 10.0 TPG (s)  |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Hebron, OH</b>           |           |                                |      |                   |                       |               |                                                                |           |                                |      |               |                       |               |
| 3663                                                               | COMP+CAN  | 1/8                            |      | 3.0 TTG           |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 3091                                                               | COMP+CAN  | 5/32                           |      | 4.0 TTG           |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 2197                                                               | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 2198                                                               | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 2199                                                               | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 2200                                                               | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 3768                                                               | COMP+CAN  | 1/8                            |      | 3.0 TPG (m)       |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 2768                                                               | COMP+CAN  | 5/32                           |      | 4.0 TPG (d)       |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 2592                                                               | COMP+CAN  | 3/16                           |      | 5.0 TPG (d)       |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 3081                                                               | COMP+CAN  | 1/4                            |      | 6.0 TPG (d)       |                       | U A           |                                                                |           |                                |      |               |                       |               |
| 3082                                                               | COMP+CAN  | 3/8                            |      | 10.0 TPG (m)      |                       | U A           |                                                                |           |                                |      |               |                       |               |

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**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 ; Lithia Springs, GA</b> |           |                                |      |                   |                       |               | <b>Trulite Glass and Aluminum Solutions ; Richmond, VA</b>              |           |                                |      |              |                       |               |
| 4982                                                             | COMP+CAN  | 1/8                            |      | 3.0 TTG           |                       | U A           | 5243                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG      |                       | U A           |
| 4983                                                             | COMP+CAN  | 5/32                           |      | 4.0 TTG           |                       | U A           | 2522                                                                    | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           |
| 4984                                                             | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           | 1957                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           |
| 4985                                                             | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           | 5307                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           |
| 5094                                                             | COMP+CAN  | 5/16                           |      | 8.0 TTG           |                       | U A           | 1959                                                                    | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           |
| 4986                                                             | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           | 2999                                                                    | COMPOSITE | 3/16                           |      | 5.0 TPG (m)  |                       | U A           |
| 4987                                                             | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; San Antonio, TX</b>           |           |                                |      |              |                       |               |
| 4988                                                             | COMP+CAN  | 1/8                            |      | 3.0 TPG (m)       |                       | U A           | 3645                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG      |                       | U A           |
| 4989                                                             | COMP+CAN  | 5/32                           |      | 4.0 TPG (d)       |                       | U A           | 3646                                                                    | COMPOSITE | 5/32                           |      | 4.0 TTG      |                       | U A           |
| 4990                                                             | COMP+CAN  | 3/16                           |      | 5.0 TPG (d)       |                       | U A           | 3839                                                                    | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           |
| 4991                                                             | COMP+CAN  | 1/4                            |      | 6.0 TPG (m)       |                       | U A           | 3326                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           |
| 4992                                                             | COMP+CAN  | 3/8                            |      | 10.0 TPG (s)      |                       | U A           | 3327                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           |
| 5358                                                             | COMP+CAN  | (S)                            |      | 5-6 LTG (b)(A)    | (.030)                | U A           | 4277                                                                    | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           |
| 5356                                                             | COMP+CAN  | (S)                            |      | 6 LTG (ip)(A)     | (.035)                | U A           | 3818                                                                    | COMPOSITE | 1/8                            |      | 3.0 TPG (s)  |                       | U A           |
| 5357                                                             | COMP+CAN  | (H)                            |      | 8-16+ LTG (ip)(A) | (.035)                | U A           | 3647                                                                    | COMPOSITE | 5/32                           |      | 4.0 TPG (m)  |                       | U A           |
| 5359                                                             | COMP+CAN  | (H)                            |      | 8-16+ LTG (b)(A)  | (.030)                | U A           | 4342                                                                    | COMPOSITE | 3/16                           |      | 5.0 TPG (d)  |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; New Berlin, WI</b>     |           |                                |      |                   |                       |               | 3819                                                                    | COMPOSITE | 1/4                            |      | 6.0 TPG (s)  |                       | U A           |
| 5316                                                             | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 3820                                                                    | COMPOSITE | 3/8                            |      | 10.0 TPG (s) |                       | U A           |
| 5317                                                             | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           | <b>Trulite Glass and Aluminum Solutions ; Youngsville, NC</b>           |           |                                |      |              |                       |               |
| 5318                                                             | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 4437                                                                    | COMPOSITE | (S)                            |      | 6 LTG (b)(A) | (.030)                | U A           |
| 5319                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | <b>Trulite Glass and Aluminum Solutions - East ; Salt Lake City, UT</b> |           |                                |      |              |                       |               |
| 5320                                                             | COMPOSITE | 5/16                           |      | 8.0 TTG           |                       | U A           | 4265                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG      |                       | U A           |
| 5321                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 4478                                                                    | COMPOSITE | 5/32                           |      | 4.0 TTG      |                       | U A           |
| 5322                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 4266                                                                    | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           |
| 5323                                                             | COMPOSITE | 5/8                            |      | 16.0 TTG          |                       | U A           | 4267                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           |
| 5324                                                             | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           | 4994                                                                    | COMP+CAN  | 5/16                           |      | 8.0 TTG      |                       | U A           |
| 5325                                                             | COMPOSITE | 3/16                           |      | 5.0 TPG (s)       |                       | U A           | 4268                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           |
| 5326                                                             | COMPOSITE | 1/4                            |      | 6.0 TPG (s)       |                       | U A           | 4269                                                                    | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           |
| 5327                                                             | COMPOSITE | 3/8                            |      | 10.0 TPG (m)      |                       | U A           | 4270                                                                    | COMPOSITE | 1/8                            |      | 3.0 TPG (s)  |                       | U A           |
| 5328                                                             | COMPOSITE | 1/2                            |      | 12.0 TPG (s)      |                       | U A           | 4271                                                                    | COMPOSITE | 5/32                           |      | 4.0 TPG (s)  |                       | U A           |
| 3430                                                             | COMPOSITE | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           | 4272                                                                    | COMPOSITE | 3/16                           |      | 5.0 TPG (m)  |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Orlando, FL</b>        |           |                                |      |                   |                       |               | 4479                                                                    | COMPOSITE | 3/8                            |      | 10.0 TPG (s) |                       | U A           |
| 5183                                                             | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | <b>Tweddell's Inc. ; Santa Ana, CA</b>                                  |           |                                |      |              |                       |               |
| 5185                                                             | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 4993                                                                    | COMP+CAN  | 3/16                           |      | 5.0 TTG      |                       | U A           |
| 5184                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | <b>United Plate Glass Co., Inc. ; Butler, PA</b>                        |           |                                |      |              |                       |               |
| 5186                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 2467                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG      |                       | U A           |
| 5187                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 2468                                                                    | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           |
| 5188                                                             | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           | 2469                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           |
| 5189                                                             | COMPOSITE | 1/8                            |      | 3.0 TPG (s)       |                       | U A           | 2470                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           |
| 5190                                                             | COMPOSITE | 3/16                           |      | 5.0 TPG (m)       |                       | U A           | 2471                                                                    | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           |
| 5191                                                             | COMPOSITE | 1/4                            |      | 6.0 TPG (m)       |                       | U A           | <b>United Plate Glass Company of Charlotte ; Lincolnton, NC</b>         |           |                                |      |              |                       |               |
| 5192                                                             | COMPOSITE | 3/8                            |      | 10.0 TPG (s)      |                       | U A           | 3948                                                                    | COMPOSITE | 1/8                            |      | 3.0 TTG      |                       | U A           |
| 3461                                                             | COMPOSITE | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           | 4197                                                                    | COMPOSITE | 5/32                           |      | 4.0 TTG      |                       | U A           |
| <b>Trulite Glass and Aluminum Solutions ; Pittsburgh, PA</b>     |           |                                |      |                   |                       |               | 3949                                                                    | COMPOSITE | 3/16                           |      | 5.0 TTG      |                       | U A           |
| 1784                                                             | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           | 3950                                                                    | COMPOSITE | 1/4                            |      | 6.0 TTG      |                       | U A           |
| 1785                                                             | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           | 3951                                                                    | COMPOSITE | 3/8                            |      | 10.0 TTG     |                       | U A           |
| 1786                                                             | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           | 3952                                                                    | COMPOSITE | 1/2                            |      | 12.0 TTG     |                       | U A           |
| 3495                                                             | COMPOSITE | 5/16                           |      | 8.0 TTG           |                       | U A           | 3954                                                                    | COMPOSITE | 1/8                            |      | 3.0 TPG (d)  |                       | U A           |
| 1787                                                             | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           | 4636                                                                    | COMPOSITE | 5/32                           |      | 4.0 TPG (d)  |                       | U A           |
| 1788                                                             | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           | 3955                                                                    | COMPOSITE | 3/16                           |      | 5.0 TPG (d)  |                       | U A           |
| 4134                                                             | COMPOSITE | 5/8                            |      | 16.0 TTG          |                       | U A           | <b>Unitex Glass Chengdu Co., Ltd ; Chendu, Sichuan, China</b>           |           |                                |      |              |                       |               |
| 4135                                                             | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           | 5407                                                                    | ANSI ONLY | 3/16                           |      | 5.0 TTG      |                       | U A           |
| 4452                                                             | COMPOSITE | 1/8                            |      | 3.0 TPG (s)       |                       | U A           | 5408                                                                    | ANSI ONLY | 1/4                            |      | 6.0 TTG      |                       | U A           |
| 1790                                                             | COMPOSITE | 3/16                           |      | 5.0 TPG (s)       |                       | U A           | 5414                                                                    | ANSI ONLY | 3/8                            |      | 10.0 TTG     |                       | U A           |
| 4453                                                             | COMPOSITE | 3/8                            |      | 10.0 TPG (s)      |                       | U A           |                                                                         |           |                                |      |              |                       |               |

**Certified Products-Alphabetical By Plant**

| SGCC#                                                                         | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE               | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS | SGCC#                                                                       | TEST STD  | INCHES<br>(THICKNESS<br>CLASS) | (MM) | TYPE           | MAX SIZE<br>CERTIFIED | ANSI<br>CLASS |
|-------------------------------------------------------------------------------|-----------|--------------------------------|------|--------------------|-----------------------|---------------|-----------------------------------------------------------------------------|-----------|--------------------------------|------|----------------|-----------------------|---------------|
| <b>Upstate Glass Tempering Inc. ; Middletown, NY</b>                          |           |                                |      |                    |                       |               | <b>Virginia Glass Products Corp. ; Martinsville, VA</b>                     |           |                                |      |                |                       |               |
| 4926                                                                          | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           | 12                                                                          | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 5157                                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 14                                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 4927                                                                          | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           | 93                                                                          | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 5158                                                                          | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           | 94                                                                          | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| <b>Vetreria Valentini S.R.L. ; Brescia, Italy</b>                             |           |                                |      |                    |                       |               | 2182                                                                        | COMPOSITE | 5/8                            |      | 16.0 TTG       |                       | U A           |
| 2423                                                                          | COMPOSITE | 5/32                           |      | 4.0 TTG            |                       | U A           | 95                                                                          | COMPOSITE | 3/4                            |      | 19.0 TTG       |                       | U A           |
| 4246                                                                          | COMPOSITE | 5/32                           |      | 4.0 TBG            |                       | U A           | 5194                                                                        | COMPOSITE | (H)                            |      | 12 LTG (ip)(A) | (.060)                | U A           |
| 2898                                                                          | COMPOSITE | 1/4                            |      | 6.0 TBG            |                       | U A           | 5383                                                                        | COMPOSITE | (H)                            |      | 12 LTG (ev)(A) | (.030)                | U A           |
| <b>Vidrio Bisel S.A. de C.V. ; Santa Catarina, Nuevo Leon, Mexico</b>         |           |                                |      |                    |                       |               | <b>Vitemex ; Reynosa, Tamaulipas</b>                                        |           |                                |      |                |                       |               |
| 4966                                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 5393                                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 4967                                                                          | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           | 5394                                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 4968                                                                          | COMPOSITE | (S)                            |      | 6 LTG (b)(A)       | (.030)                | U A           | 5395                                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 4969                                                                          | COMPOSITE | (S)                            |      | 6 LTG (b)(A)       | (.015)(C1)            | U B           | <b>Vitra Vidrios Transformados SA de CV ; Cortes, Honduras</b>              |           |                                |      |                |                       |               |
| 5056                                                                          | COMPOSITE | (H)                            |      | 10 LTG (b)(A)      | (.030)                | U A           | 5037                                                                        | COMPOSITE | 5/32                           |      | 4.0 TTG        |                       | U A           |
| <b>Vidrios El Castillo SC de RL de CV ; Escobedo, Nuevo Leon, Mexico</b>      |           |                                |      |                    |                       |               | 4651                                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 3984                                                                          | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           | 4652                                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 3985                                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 4653                                                                        | COMPOSITE | 5/16                           |      | 8.0 TTG        |                       | U A           |
| 3986                                                                          | COMPOSITE | 3/8                            |      | 10.0 TTG           |                       | U A           | 4654                                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 3987                                                                          | COMPOSITE | 1/2                            |      | 12.0 TTG           |                       | U A           | 4655                                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 3988                                                                          | COMPOSITE | 3/4                            |      | 19.0 TTG           |                       | U A           | <b>Viwinco, Inc. ; Morgantown, PA</b>                                       |           |                                |      |                |                       |               |
| 4712                                                                          | COMPOSITE | (S)                            |      | 6 LTG (b)(A)       | (.015)(C1)            | U B           | 3074                                                                        | COMPOSITE | 1/8                            |      | 3.0 TTG        |                       | U A           |
| 4713                                                                          | COMPOSITE | (S)                            |      | 6 LTG (b)(A)       | (.030)                | U A           | 3405                                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
| <b>Vidrios Marte SA de CV ; Azcapotzalco, Distrito Federal Mexico, Mexico</b> |           |                                |      |                    |                       |               | 3406                                                                        | COMPOSITE | (S)                            |      | 6 LTG (b)(A)   | (.090)                | U A           |
| 4041                                                                          | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           | 3408                                                                        | COMPOSITE | (H)                            |      | 8 LTG (b)(A)   | (.090)                | U A           |
| 4042                                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | <b>W. A. Wilson Inc. ; Wheeling, WV</b>                                     |           |                                |      |                |                       |               |
| <b>View Inc. ; Olive Branch, MS</b>                                           |           |                                |      |                    |                       |               | 4169                                                                        | COMPOSITE | 1/8                            |      | 3.0 TTG        |                       | U A           |
| 4725                                                                          | COMPOSITE | 1/8                            |      | 3.0 TTG            |                       | U A           | 4170                                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 4726                                                                          | COMPOSITE | 5/32                           |      | 4.0 TTG            |                       | U A           | 4171                                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 4727                                                                          | COMPOSITE | 3/16                           |      | 5.0 TTG            |                       | U A           | 4172                                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 4728                                                                          | COMPOSITE | 1/4                            |      | 6.0 TTG            |                       | U A           | 4173                                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| <b>Viracon Inc. ; Owatonna, MN</b>                                            |           |                                |      |                    |                       |               | 5173                                                                        | COMPOSITE | 1/8"                           |      | 3.0 TPG (d)    |                       | U A           |
| 4354                                                                          | COMP+CAN  | 5/32                           |      | 4.0 TTG            |                       | U A           | 4175                                                                        | COMPOSITE | 3/16                           |      | 5.0 TPG (d)    |                       | U A           |
| 1403                                                                          | COMP+CAN  | 3/16                           |      | 5.0 TTG            |                       | U A           | 4176                                                                        | COMPOSITE | 3/8                            |      | 10.0 TPG (s)   |                       | U A           |
| 1404                                                                          | COMP+CAN  | 1/4                            |      | 6.0 TTG            |                       | U A           | <b>White Aluminum Enterprises LLC ; Abu Dhabi, United Arab Emirates</b>     |           |                                |      |                |                       |               |
| 3689                                                                          | COMP+CAN  | 5/16                           |      | 8.0 TTG            |                       | U A           | 4598                                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 1508                                                                          | COMP+CAN  | 3/8                            |      | 10.0 TTG           |                       | U A           | 4597                                                                        | COMPOSITE | 5/16                           |      | 8.0 TTG        |                       | U A           |
| 1509                                                                          | COMP+CAN  | 1/2                            |      | 12.0 TTG           |                       | U A           | <b>Wholesale Glass Dist. ; Memphis, TN</b>                                  |           |                                |      |                |                       |               |
| 1637                                                                          | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)       | (.030)                | U A           | 4379                                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 4249                                                                          | COMP+CAN  | (H)                            |      | 8-16+ LTG (b)(A)   | (.030)                | U A           | 4380                                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 4250                                                                          | COMP+CAN  | (H)                            |      | 12-16+ LTG (ip)(A) | (.060)                | U A           | 4381                                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| <b>Viracon Inc. ; Statesboro, GA</b>                                          |           |                                |      |                    |                       |               | 4382                                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 2314                                                                          | COMP+CAN  | 3/16                           |      | 5.0 TTG            |                       | U A           | <b>WSD Glass, Inc. ; Winston-Salem, NC</b>                                  |           |                                |      |                |                       |               |
| 2310                                                                          | COMP+CAN  | 1/4                            |      | 6.0 TTG            |                       | U A           | 4048                                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
| 4720                                                                          | COMP+CAN  | 5/16                           |      | 8.0 TTG            |                       | U A           | 4049                                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
| 2311                                                                          | COMP+CAN  | 3/8                            |      | 10.0 TTG           |                       | U A           | 4052                                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |
| 5017                                                                          | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)       | (.030)                | U A           | 4050                                                                        | COMPOSITE | 1/2                            |      | 12.0 TTG       |                       | U A           |
| 4779                                                                          | COMP+CAN  | (H)                            |      | 8-16+ LTG (b)(A)   | (.030)                | U A           | 4051                                                                        | COMPOSITE | 3/16                           |      | 5.0 TPG (s)    |                       | U A           |
| 4784                                                                          | COMP+CAN  | (H)                            |      | 12 LTG (ip)(A)     | (.090)                | U A           | <b>Wuhan Aozheng Science and Technology Co., Ltd. ; Wuhan, Hubei, China</b> |           |                                |      |                |                       |               |
|                                                                               |           |                                |      |                    |                       |               | 5238                                                                        | COMPOSITE | 3/16                           |      | 5.0 TTG        |                       | U A           |
|                                                                               |           |                                |      |                    |                       |               | 5239                                                                        | COMPOSITE | 1/4                            |      | 6.0 TTG        |                       | U A           |
|                                                                               |           |                                |      |                    |                       |               | 5240                                                                        | COMPOSITE | 5/16                           |      | 8.0 TTG        |                       | U A           |
|                                                                               |           |                                |      |                    |                       |               | 5241                                                                        | COMPOSITE | 3/8                            |      | 10.0 TTG       |                       | U A           |

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**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>Wujiang Golden Glass Technologies, Ltd. ; Wujiang City,</b>                           |           |                                |      |                   |                       |               |       |          |                                |      |      |                       |               |
| 5251                                                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 5252                                                                                     | COMPOSITE | 5/16                           |      | 8.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 5253                                                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 5254                                                                                     | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 5255                                                                                     | COMPOSITE | 5/8                            |      | 15.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 5256                                                                                     | COMPOSITE | 3/4                            |      | 19.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 5257                                                                                     | COMPOSITE | (H)                            |      | 8 LTG (b)(A)      | (.030)                | U A           |       |          |                                |      |      |                       |               |
| 5258                                                                                     | COMPOSITE | (H)                            |      | 10 LTG (ip)(A)    | (.035)                | U A           |       |          |                                |      |      |                       |               |
| <b>Xinyi Group (Glass) Co., Ltd. ; Dongguan, Guangdong, China</b>                        |           |                                |      |                   |                       |               |       |          |                                |      |      |                       |               |
| 3085                                                                                     | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 3053                                                                                     | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 4648                                                                                     | COMP+CAN  | 5/16                           |      | 8.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 3054                                                                                     | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 3055                                                                                     | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 4179                                                                                     | COMP+CAN  | *                              |      | 15.0 TTG (3)      |                       | U A           |       |          |                                |      |      |                       |               |
| 3056                                                                                     | COMP+CAN  | (S)                            |      | 6 LTG (b)(A)      | (.030)                | U A           |       |          |                                |      |      |                       |               |
| 3489                                                                                     | COMP+CAN  | (H)                            |      | 8-16+ LTG (b)(A)  | (.030)                | U A           |       |          |                                |      |      |                       |               |
| <b>Yao Xiang Glass Product Co. Ltd. ; Foshan, Guangdong, China</b>                       |           |                                |      |                   |                       |               |       |          |                                |      |      |                       |               |
| 3736                                                                                     | COMP+CAN  | 5/32                           |      | 4.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 3737                                                                                     | COMP+CAN  | 3/16                           |      | 5.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 3738                                                                                     | COMP+CAN  | 1/4                            |      | 6.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 3739                                                                                     | COMP+CAN  | 5/16                           |      | 8.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 3740                                                                                     | COMP+CAN  | 3/8                            |      | 10.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 3741                                                                                     | COMP+CAN  | 1/2                            |      | 12.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 3742                                                                                     | COMP+CAN  | 3/16                           |      | 5.0 TBG           |                       | U A           |       |          |                                |      |      |                       |               |
| 3743                                                                                     | COMP+CAN  | 1/4                            |      | 6.0 TBG           |                       | U A           |       |          |                                |      |      |                       |               |
| <b>Yong Feng Tai Foshan City Glas Co., LTD. ; Foshan, Guangdong, China</b>               |           |                                |      |                   |                       |               |       |          |                                |      |      |                       |               |
| 4875                                                                                     | ANSI ONLY | 3/16                           |      | 5.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 4876                                                                                     | ANSI ONLY | 1/4                            |      | 6.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 4877                                                                                     | ANSI ONLY | 5/16                           |      | 8.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| <b>Zhangjiagang Weiyu Fabricated Glass Co. Ltd. ; Zhangjiagang, Jiangsu, China</b>       |           |                                |      |                   |                       |               |       |          |                                |      |      |                       |               |
| 4093                                                                                     | COMPOSITE | 1/8                            |      | 3.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 4602                                                                                     | COMPOSITE | 5/32                           |      | 4.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 4094                                                                                     | COMPOSITE | 3/16                           |      | 5.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| 4095                                                                                     | COMPOSITE | 1/4                            |      | 6.0 TTG           |                       | U A           |       |          |                                |      |      |                       |               |
| <b>Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd ; Hangzhou, Zhejiang, China</b> |           |                                |      |                   |                       |               |       |          |                                |      |      |                       |               |
| 5080                                                                                     | COMPOSITE | 3/8                            |      | 10.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 5081                                                                                     | COMPOSITE | 1/2                            |      | 12.0 TTG          |                       | U A           |       |          |                                |      |      |                       |               |
| 5233                                                                                     | COMPOSITE | (H)                            |      | 10-16+ LTG (b)(A) | (.030)                | U A           |       |          |                                |      |      |                       |               |

**Certified Products-Alphabetical By Plant**

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

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

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

**Pattern Glass Attribute Codes**

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

**Miscellaneous Codes**

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

**Glass Standard Attribute Codes**

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

**Laminated Glass Attribute Codes**

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

***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                     | Greenland, TN                     | 598           | COMP+CAN        | 285 U         | A                             |                       |
| AGC Flat Glass North America                     | Quakertown, PA                    | 2507          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Flat Glass North America                     | Spring Hill, KS                   | 1702          | COMP+CAN        | 500 U         | A                             |                       |
| Aldora Aluminum and Glass Products Inc.          | Charleston, SC                    | 4328          | COMPOSITE       | 285 U         | A                             |                       |
| Aldora Aluminum and Glass Products, Inc.         | Miramar, FL                       | 4715          | COMPOSITE       | 285 U         | A                             |                       |
| American Insulated Glass Inc.                    | Conley, GA                        | 5283          | COMPOSITE       | 165 U         | A                             |                       |
| Amsco Windows                                    | Salt Lake City, UT                | 2578          | COMPOSITE       | 750 U         | A                             |                       |
| Anthony International                            | Madison, GA                       | 3249          | COMPOSITE       | 165 U         | A                             |                       |
| Anthony International                            | San Fernando, CA                  | 520           | ANSI ONLY       | 250 U         | A                             |                       |
| Architectural Glass Products, LLC                | St. Louis, MO                     | 4571          | COMPOSITE       | 100 U         | A                             |                       |
| Arlene Stained Glass & Door                      | Houston, TX                       | 5127          | COMPOSITE       | 175 U         | A                             |                       |
| 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                                      | Loveland, CO                      | 3579          | COMPOSITE       | 900 U         | A                             |                       |
| Cardinal CG                                      | Galt, CA                          | 2357          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal CG                                      | Waxahachie, TX                    | 2699          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal CG                                      | Tumwater, WA                      | 2007          | COMP+CAN        | 195 U         | A                             |                       |
| Cardinal CG                                      | Northfield, MN                    | 1985          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                      | Casa Grande, AZ                   | 2878          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal CG                                      | Buford, GA                        | 1921          | COMP+CAN        | 165 U         | A                             |                       |
| Cardinal CG                                      | Mazomanie, WI                     | 4780          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                      | Moreno Valley, CA                 | 2293          | CPSC ONLY       | 250 U         |                               |                       |
| Cardinal CG                                      | Spring Green, WI                  | 2067          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal CT                                      | Mount Airy, NC                    | 4578          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                      | Utica, OH                         | 4620          | COMPOSITE       | 100 U         | A                             |                       |
| Cardinal CT                                      | Adel, GA                          | 5095          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                      | Easton, PA                        | 4756          | COMPOSITE       | 100 U         | A                             |                       |
| Cardinal CT - S                                  | Irving TX                         | 5101          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal CT - W                                  | Irving TX                         | 5245          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal FG                                      | Durant, OK                        | 2909          | COMP+CAN        | 900 U         | A                             |                       |
| Cardinal IG                                      | Fremont, IN                       | 2176          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                      | Fargo, ND                         | 2235          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                      | Tomah, WI                         | 2317          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal IG                                      | Vinton, VA                        | 2919          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                      | Waxahachie, TX                    | 2328          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal IG                                      | Hood River, OR                    | 2831          | COMP+CAN        | 750 U         | A                             |                       |
| Cardinal IG                                      | Spring Green, WI                  | 1831          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal IG                                      | Mountain Top, PA                  | 3068          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                      | Greenfield, IA                    | 1827          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal IG                                      | Los Angeles, CA                   | 5085          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal LG                                      | Ocala, FL                         | 3505          | COMPOSITE       | 285 U         | A                             |                       |
| Cardinal TG                                      | Tomah, WI                         | 1804          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal TG                                      | Chehalis, WA                      | 3455          | COMP+CAN        | 750 U         | A                             |                       |
| Changshu Hard Glass Co., Ltd.                    | Changshu, Jiangsu, China          | 2904          | COMPOSITE       | 125 U         | A                             |                       |
| Changshu Xingfu Glass Building Material Co., LTD | Changshu, Jiangsu, 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.                 | Changshu, Jiangsu Province, China | 4936          | COMPOSITE       | 125 U         |                               |                       |

***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> |                          |               |                 |               |                               |                       |
| ClearEdge Glass                            | Baton Rouge, LA          | 5308          | COMPOSITE       |               | 900 U                         | A                     |
| Cleer Vision Tempered Glass                | Elkhart, IN              | 4546          | COMPOSITE       |               | 200 U                         | A                     |
| Columbia Commercial Bldg Prod.             | Rockwall, TX             | 4919          | COMP+CAN        |               | 175 U                         | A                     |
| Commercial Insulating Glass Co.            | Sarasota, FL             | 1889          | COMPOSITE       |               | 285 30x76                     | A                     |
| Commercial Insulating Glass Co.            | Cumberland City, TN      | 3806          | COMPOSITE       |               | 165 U                         | A                     |
| Consolidated Glass Corp.                   | New Castle, PA           | 1998          | COMPOSITE       |               | 285 U                         | A                     |
| Contour Industries, Inc.                   | Surgoinsville, TN        | 1680          | COMP+CAN        |               | 285 U                         | A                     |
| Contract Glass                             | Wilmington, MA           | 4970          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                       | Valencia, CA             | 3464          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division            | Tuscaloosa, AL           | 3420          | COMPOSITE       |               | 165 U                         | A                     |
| Dalian Huaying Glass Products Co., Ltd.    | Dalian, Liaoning, China  | 5260          | COMPOSITE       |               | 900 U                         | A                     |
| Dallas Flat Glass                          | Carrollton, TX           | 4790          | COMPOSITE       |               | 175 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.   | Huzhou, Zhejiang, China  | 4055          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                 | Van Buren, AR            | 4838          | COMPOSITE       |               | 900 U                         | A                     |
| EFCO Corporation                           | Monett, MO               | 4121          | COMPOSITE       |               | 175 U                         | A                     |
| Engineered Glass Products, L.L.C.          | Chicago, IL              | 4388          | COMPOSITE       |               | 200 30x72                     | A                     |
| Flat Glass Distributors                    | Jacksonville, FL         | 3822          | COMPOSITE       |               | 285 U                         | A                     |
| General Glass                              | Portland, OR             | 4031          | COMPOSITE       |               | 750 U                         | A                     |
| Glass and Mirror Craft                     | Wixom, MI                | 4198          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Dynamics, Inc.                       | Stoneville, NC           | 2728          | COMPOSITE       |               | 285 U                         | A                     |
| Glasswerks LA, Inc.                        | South Gate, CA           | 4804          | COMPOSITE       |               | 250 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 Fabrication Inc.                  | Webster, MA              | 300           | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Industries Corp.                  | Corsicana, TX            | 1248          | COMPOSITE       |               | 175 U                         | A                     |
| Guardian Industries Corp.                  | Galax, VA                | 4604          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                  | Richburg, SC             | 1630          | COMPOSITE       |               | 285 U                         | A                     |
| Guardian Industries Corp.                  | DeWitt, IA               | 2020          | COMPOSITE       |               | 500 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.                  | Kingsburg, CA            | 968           | COMPOSITE       |               | 125 U                         | A                     |
| Insulated Glass of America, Inc.           | Dallas, NC               | 3859          | COMPOSITE       |               | 165 U                         | A                     |
| Insulite Glass Co., Inc.                   | Olathe, KS               | 4473          | COMPOSITE       |               | 150 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.             | Xiamen, Fujian, China    | 2572          | COMP+CAN        |               | 200 U                         | A                     |
| Intigral                                   | Walton Hills, OH         | 2050          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangyin Mingyang Glass Production         | Jiangyin City, Jiangsu   | 5415          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                         | Foshan, Guangdong, China | 3957          | COMPOSITE       |               | 125 U                         | A                     |
| Kawneer - (Cranberry) a division of Alcoa  | Cranberry Township, PA   | 2488          | COMPOSITE       |               | 100 U                         | A                     |
| Kohler Company                             | Union City, TN           | 1979          | COMPOSITE       |               | 165 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          | COMP+CAN        |               | 285 U                         | A                     |
| New Angle Beveling                         | Hyde, PA                 | 4593          | COMPOSITE       |               | 100 U                         | A                     |
| Northwest Glass, Inc.                      | Billings, MT             | 3649          | COMPOSITE       |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Vancouver, WA            | 3219          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Los Angeles, CA          | 1608          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Phoenix, AZ              | 3128          | COMP+CAN        |               | 125 U                         | A                     |



**Certified Products-By Product Type**

|                                                      |                                     | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|------------------------------------------------------|-------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/8 Inch Tempered Transparent Glass</i>           |                                     |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope®                          | Shawnee, OK                         | 3095          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Houston, TX                         | 3156          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Rock Hill, SC                       | 3276          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Tampa, FL                           | 3116          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Covington, GA                       | 3329          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Perrysburg, OH                      | 3233          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Indianapolis, IN                    | 2210          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Denver, CO                          | 3310          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Schofield, WI                       | 3167          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Albertville, MN                     | 3104          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Warrenton, MO                       | 3144          | COMP+CAN        | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Hauppauge, NY                       | 1546          | COMP+CAN        | 400 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Calgary, AB                         | 3263          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Concord, ON                         | 3439          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Langley, BC                         | 3286          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Moorestown, NJ                      | 3180          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Wright City, MO                     | 3137          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Grand Prairie, TX                   | 3250          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Fremont, CA                         | 3191          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Pointe-aux-Trembles, QC             | 1996          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                          | Miami, FL                           | 3496          | COMP+CAN        | 285 U         | A                             |                       |
| Paragon Tempered Glass                               | Antwerp, OH                         | 2684          | COMPOSITE       | 500 U         | A                             |                       |
| Patio Enclosures                                     | Macedonia, OH                       | 2056          | COMPOSITE       | 200 U         | A                             |                       |
| Perficom, S.A. de C.V.                               | San Juan Del Rio, Querétaro, Mexico | 4512          | COMPOSITE       | 175 U         | A                             |                       |
| PFG Glass                                            | Langley, BC                         | 3538          | COMP+CAN        | 750 U         | A                             |                       |
| PGT Industries                                       | Nokomis, FL                         | 2389          | COMPOSITE       | 285 U         | A                             |                       |
| PPG Inds. Inc.                                       | Barrie, ON                          | 5207          | COMP+CAN        | 800 U         | A                             |                       |
| PPG Inds. Inc.                                       | Burlington, IA                      | 1605          | COMP+CAN        | 500 U         | A                             |                       |
| PPG Inds. Inc.                                       | Carlisle, PA                        | 250           | COMP+CAN        | 400 U         | A                             |                       |
| PPG Inds., Inc.                                      | Wichita Falls, TX                   | 1110          | COMPOSITE       | 175 U         | A                             |                       |
| Prelco Inc.                                          | Saint-Jacques, NB                   | 4911          | COMP+CAN        | 800 U         | A                             |                       |
| Prelco Inc.                                          | Riviere-du-loup, QC                 | 2034          | COMP+CAN        | 800 U         | A                             |                       |
| Qinhuangdao Detai Tempered Glass Co., Ltd.           | Qinhuangdao, Hebei, China           | 4156          | COMPOSITE       | 100 U         | A                             |                       |
| Qinhuangdao High Tech Energy Saving Dorwin Co., Ltd. | Qinhuangdao, Hebei, China           | 4635          | COMPOSITE       | 100 U         | A                             |                       |
| Qinhuangdao Jingxin Glass Co., Ltd.                  | Qinhuangdao City, Hebei Province    | 5280          | COMPOSITE       | 400 U         | A                             |                       |
| Qinhuangdao Kunping Safety Glass Co. Ltd.            | Qinhuangdao, Hebei, China           | 3730          | COMPOSITE       | 100 U         | A                             |                       |
| Qinhuangdao Qicaishi                                 | Qinhuangdao, Hebei, China           | 5141          | COMPOSITE       | 100 U         | A                             |                       |
| QinHuangDao Tianrui Tempered Technology Glass Co.    | Qinhuangdao, Hebei, China           | 3690          | COMPOSITE       | 100 U         | A                             |                       |
| Quaker Window Products, Inc.                         | Freeburg, MO                        | 2985          | COMP+CAN        | 150 U         | A                             |                       |
| Robover Inc.                                         | Quebec City, QC                     | 5199          | COMP+CAN        | 800 U         | A                             |                       |
| SAAND London                                         | London, ON Canada                   | 3978          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Ottawa                                         | Stittsville, ON                     | 4949          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Rexdale                                        | Rexdale, ON                         | 4995          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Toronto                                        | Toronto, ON Canada                  | 2481          | COMP+CAN        | 400 U         | A                             |                       |
| 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                             |                       |

**Certified Products-By Product Type**

|                                                                |                                               | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------------------|-----------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 1/8 Inch Tempered Transparent Glass                            |                                               |               |                 |               |                               |                       |
| Simonton Windows                                               | Paris, IL                                     | 4979          | COMPOSITE       |               | 150 U                         | A                     |
| Simonton Windows                                               | Ellenboro, WV                                 | 2887          | COMPOSITE       |               | 100 U                         | A                     |
| Solar Seal Company                                             | South Easton, MA                              | 3001          | COMPOSITE       |               | 100 U                         | A                     |
| Swift Glass Co., Inc.                                          | Elmira Heights, NY                            | 1555          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                                       | Syracuse, NY                                  | 2654          | COMPOSITE       |               | 400 U                         | A                     |
| Tai Shan City Da Heng Art Glass Ltd.                           | Tai Shan, Guangdong, China                    | 3787          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                             | Surgoinsville, TN                             | 2547          | COMP+CAN        |               | 285 U                         | A                     |
| Tecnoglass S.A.                                                | Barranquilla, Colombia                        | 2133          | COMP+CAN        |               | 285 U                         | A                     |
| Tempco Glass                                                   | Flushing, NY                                  | 5009          | COMPOSITE       |               | 400 U                         | A                     |
| Texas Tempered, a Trulite Glass and Aluminum Solutions Company | Houston, TX                                   | 4847          | COMPOSITE       |               | 175 U                         | A                     |
| Thermal Seal Insulating Glass                                  | Uxbridge, MA                                  | 4830          | COMPOSITE       |               | 285 U                         | A                     |
| Thermo BSL                                                     | Riviere-du-loup, QC                           | 4290          | COMPOSITE       |               | 800 U                         | A                     |
| Thermoseal Industries, LLC                                     | Gloucester City, NJ                           | 4468          | COMPOSITE       |               | 100 U                         | A                     |
| Thompson I.G. LLC.                                             | Fenton, MI                                    | 5303          | COMP+CAN        |               | 400 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd.             | Tianjin, China                                | 2889          | COMPOSITE       |               | 250 U                         | A                     |
| Tri-Star Glass                                                 | Tulsa, OK                                     | 4004          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Lithia Springs, GA                            | 4982          | COMP+CAN        |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Columbus, OH                                  | 4745          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Knoxville, TN                                 | 4209          | COMP+CAN        |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Hebron, OH                                    | 3663          | COMP+CAN        |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Richmond, VA                                  | 5243          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Pittsburgh, PA                                | 1784          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Las Vegas, NV                                 | 4210          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | New Berlin, WI                                | 5316          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Orlando, FL                                   | 5183          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | City of Industry, CA                          | 4182          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Atlanta, GA                                   | 2959          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Aurora, CO                                    | 5341          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Houston, TX                                   | 5432          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | San Antonio, TX                               | 3645          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Grenada, MS                                   | 2787          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Indianapolis, IN                              | 4749          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Fall River, MA                                | 1518          | COMP+CAN        |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East                    | Salt Lake City, UT                            | 4265          | 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       |               | 165 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       |               | 175 U                         | A                     |
| Vidrios Marte SA de CV                                         | Azcapotzalco, Distrito Federal Mexico, 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                     |
| 5/32 Inch Tempered Transparent Glass                           |                                               |               |                 |               |                               |                       |
| AGC Flat Glass North America                                   | Greenland, TN                                 | 955           | COMP+CAN        |               | 285 U                         | A                     |
| AGC Flat Glass North America                                   | Quakertown, PA                                | 3421          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Flat Glass North America                                   | Spring Hill, KS                               | 1703          | COMP+CAN        |               | 500 U                         | A                     |

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

|                                             |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|---------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/32 Inch Tempered Transparent Glass</i> |                            |               |                 |               |                               |                       |
| Aldora Aluminum and Glass Products Inc.     | Charleston, SC             | 4329          | COMPOSITE       | 285 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                       | Madison, GA                | 3027          | COMPOSITE       | 165 U         | A                             |                       |
| Anthony International                       | San Fernando, CA           | 2289          | ANSI ONLY       | 250 U         | A                             |                       |
| Cardinal CG                                 | Mazomanie, WI              | 4781          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                 | Loveland, CO               | 3580          | COMPOSITE       | 900 U         | A                             |                       |
| Cardinal CG                                 | Buford, GA                 | 1922          | COMP+CAN        | 165 U         | A                             |                       |
| Cardinal CG                                 | Casa Grande, AZ            | 2879          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal CG                                 | Galt, CA                   | 2358          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal CG                                 | Spring Green, WI           | 2068          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal CG                                 | Waxahachie, TX             | 2700          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal CG                                 | Northfield, MN             | 1986          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                 | Tumwater, WA               | 2008          | COMP+CAN        | 195 U         | A                             |                       |
| Cardinal CG                                 | Moreno Valley, CA          | 2294          | CPSC ONLY       | 250 U         |                               |                       |
| Cardinal CT                                 | Mount Airy, NC             | 4579          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                 | Easton, PA                 | 4757          | COMPOSITE       | 100 U         | A                             |                       |
| Cardinal CT                                 | Adel, GA                   | 5096          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                 | Utica, OH                  | 4621          | COMPOSITE       | 100 U         | A                             |                       |
| Cardinal CT - S                             | Irving TX                  | 5102          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal CT - W                             | Irving TX                  | 5246          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal FG                                 | Durant, OK                 | 2910          | COMP+CAN        | 900 U         | A                             |                       |
| Cardinal IG                                 | Fargo, ND                  | 2234          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                 | Fremont, IN                | 2177          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                 | Waxahachie, TX             | 2329          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal IG                                 | Vinton, VA                 | 2920          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                 | Mountain Top, PA           | 3069          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                 | Tomah, WI                  | 2318          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal IG                                 | Hood River, OR             | 2858          | COMP+CAN        | 750 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                                 | Los Angeles, CA            | 5086          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal LG                                 | Ocala, FL                  | 3506          | COMPOSITE       | 285 U         | A                             |                       |
| Cardinal Tempering                          | Louisville, KY             | 3871          | COMPOSITE       | 900 U         | A                             |                       |
| Cardinal TG                                 | Tomah, WI                  | 1805          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal TG                                 | Chehalis, WA               | 3456          | COMP+CAN        | 750 U         | A                             |                       |
| Changshu Hard Glass Co., Ltd.               | Changshu, Jiangsu, China   | 2987          | COMPOSITE       | 125 U         | A                             |                       |
| Chicago Tempered Glass, Inc.                | Chicago, IL                | 3086          | COMPOSITE       | 200 U         | A                             |                       |
| Cleer Vision Tempered Glass                 | Elkhart, IN                | 4547          | COMPOSITE       | 200 U         | A                             |                       |
| Consolidated Glass Corp.                    | New Castle, PA             | 1999          | COMPOSITE       | 285 U         | A                             |                       |
| Contour Industries, Inc.                    | Surgoinsville, TN          | 4285          | COMP+CAN        | 285 U         | A                             |                       |
| Contract Glass                              | Wilmington, MA             | 4971          | COMPOSITE       | 100 U         | A                             |                       |
| Contractors Wardrobe                        | Valencia, CA               | 3465          | COMP+CAN        | 250 U         | A                             |                       |
| Custom Glass Solutions Millbury Corp.       | Millbury, OH               | 1575          | COMPOSITE       | 200 U         | A                             |                       |
| Deqing Sanxing Plastic Chemical Co. Ltd.    | Huzhou, Zhejiang, China    | 4056          | COMPOSITE       | 750 U         | A                             |                       |
| Diamond Sea Glaze                           | Langley, BC Canada         | 4499          | COMPOSITE       | 750 U         | A                             |                       |
| Dongguan CSG Architectural Glass Co., Ltd.  | Dongguan, Guangdong, China | 3932          | COMP+CAN        | 125 U         | A                             |                       |
| Dongguan Trillion Aluminum Glass Co., Ltd   | Dongguan, Guangdong, China | 5028          | COMPOSITE       | 285 U         | A                             |                       |
| EFI                                         | Kernersville, NC           | 5014          | COMP+CAN        | 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>       |                                |               |                 |               |                               |                       |
| 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<br>Tempered Glass Factory | Foshan, Guangdong, China       | 4673          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Fujian Xihe Sanitary Ware<br>Technology Co., Ltd  | Nan'an Fujian China            | 5216          | COMPOSITE       |               | 285 U                         | A                     |
| Fujiansheng Binchang Metal Products<br>Co., Ltd   | Zhang Zhou City, Fujian, China | 5110          | COMPOSITE       |               | 285 U                         | A                     |
| General Glass                                     | Portland, OR                   | 4032          | COMPOSITE       |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                      | Secaucus, NJ                   | 2928          | COMPOSITE       |               | 100 U                         | A                     |
| Glass and Mirror Craft                            | Wixom, MI                      | 5116          | COMP+CAN        |               | 150 U                         | A                     |
| Goldray Industries Ltd.                           | Calgary, AB Canada             | 2445          | COMP+CAN        |               | 195 U                         | A                     |
| GSA Armourplate                                   | Cape Town, South Africa        | 4887          | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Fabrication Inc.                         | Webster, MA                    | 1607          | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Industries Corp.                         | Galax, VA                      | 4605          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                         | Kingsburg, CA                  | 969           | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                         | DeWitt, IA                     | 2021          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Industries Corp.                         | Carleton, MI                   | 934           | COMPOSITE       |               | 200 U                         | A                     |
| Guardian Industries Corp.                         | Geneva, NY                     | 2260          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                         | Corsicana, TX                  | 1249          | COMPOSITE       |               | 175 U                         | A                     |
| Guardian Industries Corp.                         | Richburg, SC                   | 1631          | COMPOSITE       |               | 285 U                         | A                     |
| Insulated Glass of America, Inc.                  | Dallas, NC                     | 3860          | COMPOSITE       |               | 165 U                         | A                     |
| Insulite Glass Co., Inc.                          | Olathe, KS                     | 4474          | COMPOSITE       |               | 150 U                         | A                     |
| Integral Seal Mfg. Inc.                           | Concord, ON Canada             | 4682          | COMP+CAN        |               | 100 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.                    | Xiamen, Fujian, China          | 2573          | COMP+CAN        |               | 200 U                         | A                     |
| Intigral                                          | Walton Hills, OH               | 2051          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass                    | Jiangmen, Guangdong, China     | 4303          | COMP+CAN        |               | 125 U                         | A                     |
| Jiangyin Mingyang Glass Production                | Jiangyin City, Jiangsu         | 5416          | COMPOSITE       |               | 125 U                         | A                     |
| Jiaxing Joinbath Corporation                      | Jiaxing, Zhejiang, China       | 5195          | COMPOSITE       |               | 125 U                         | A                     |
| Jin Yao Chang Tempered Glass Co.,<br>Ltd          | , Guangdong                    | 5292          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                | Foshan, Guangdong, China       | 3958          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                                    | Union City, TN                 | 1980          | COMPOSITE       |               | 165 U                         | A                     |
| Multiver                                          | Vanier, QC                     | 2629          | COMPOSITE       |               | 400 U                         | A                     |
| Nashville Tempered Glass Corp.                    | Nashville, TN                  | 2497          | COMP+CAN        |               | 285 U                         | A                     |
| Nashville Tempered Glass LLC                      | Hendersonville, TN             | 2691          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Fremont, CA                    | 3192          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Covington, GA                  | 3330          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Rock Hill, SC                  | 3462          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Moorestown, NJ                 | 3181          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Langley, BC                    | 3287          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Calgary, AB                    | 3264          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Concord, ON                    | 3440          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Perrysburg, OH                 | 3234          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Los Angeles, CA                | 1609          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Albertville, MN                | 3105          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Houston, TX                    | 3157          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Grand Prairie, TX              | 3251          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Phoenix, AZ                    | 3129          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Denver, CO                     | 3311          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Vancouver, WA                  | 3220          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Schofield, WI                  | 3168          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                       | Indianapolis, IN               | 2216          | COMP+CAN        |               | 150 U                         | A                     |

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

|                                                       |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 5/32 Inch Tempered Transparent Glass                  |                            |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope®                           | Wright City, MO            | 3138          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Pointe-aux-Trembles, QC    | 4247          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Warrenton, MO              | 3145          | COMP+CAN        |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                           | Shawnee, OK                | 3096          | COMP+CAN        |               | 175 U                         | A                     |
| Paragon Tempered Glass                                | Antwerp, OH                | 2685          | COMPOSITE       |               | 500 U                         | A                     |
| Patio Enclosures                                      | Macedonia, OH              | 2057          | COMPOSITE       |               | 200 U                         | A                     |
| PFG Glass                                             | Langley, BC                | 3539          | COMP+CAN        |               | 750 U                         | A                     |
| PPG Inds. Inc.                                        | Barrie, ON                 | 5204          | COMP+CAN        |               | 800 U                         | A                     |
| PPG Inds. Inc.                                        | Carlisle, PA               | 675           | COMP+CAN        |               | 400 U                         | A                     |
| PPG Inds. Inc.                                        | Burlington, IA             | 1606          | COMP+CAN        |               | 500 U                         | A                     |
| PPG Inds., Inc.                                       | Wichita Falls, TX          | 1111          | COMPOSITE       |               | 175 U                         | A                     |
| Prelco Inc.                                           | Riviere-du-loup, QC        | 2035          | COMP+CAN        |               | 800 U                         | A                     |
| Prelco Inc.                                           | Saint-Jacques, NB          | 4912          | COMP+CAN        |               | 800 U                         | A                     |
| PT Abebersa Pratama                                   | Bekasi, Indonesia          | 3905          | COMPOSITE       |               | 125 U                         | A                     |
| Quaker Window Products, Inc.                          | Freeburg, MO               | 5297          | COMP+CAN        |               | 150 U                         | A                     |
| Robover Inc.                                          | Quebec City, QC            | 5200          | COMP+CAN        |               | 800 U                         | A                     |
| SAAND London                                          | London, ON Canada          | 4278          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Ottawa                                          | Stittsville, ON            | 4950          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Rexdale                                         | Rexdale, ON                | 4996          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Toronto                                         | Toronto, ON Canada         | 2482          | COMP+CAN        |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                           | Sweetwater, TN             | 1332          | COMP+CAN        |               | 285 U                         | A                     |
| SCHOTT Gemtron (Canada)<br>Corporation                | Midland, ON Canada         | 3659          | COMPOSITE       |               | 100 U                         | A                     |
| Shanghai SYP Engineering Glass                        | Shanghai, China            | 4067          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                           | Westbrook, ME              | 2962          | COMPOSITE       |               | 100 U                         | A                     |
| Tai Shan City Da Heng Art Glass Ltd.                  | Tai Shan, Guangdong, China | 3788          | COMPOSITE       |               | 750 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                   | Dongguan, Guangdong, China | 4870          | COMPOSITE       |               | 285 U                         | A                     |
| Taiwan Glass Industry Corp.                           | Taipei, Taiwan, China      | 3886          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                    | Surgoinsville, TN          | 2548          | COMP+CAN        |               | 285 U                         | A                     |
| Tecnoglass S.A.                                       | Barranquilla, Colombia     | 2287          | COMP+CAN        |               | 285 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 Energy Conservation<br>Glass Co., Ltd     | Tianjin, China             | 4021          | COMPOSITE       |               | 100 U                         | A                     |
| TianJin Dong Sung Home Building<br>Materials Co. Ltd. | Tianjin, China             | 4035          | COMPOSITE       |               | 250 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                  | New Berlin, WI             | 5317          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | City of Industry, CA       | 4183          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Knoxville, TN              | 4827          | COMP+CAN        |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Hebron, OH                 | 3091          | COMP+CAN        |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Las Vegas, NV              | 4211          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Aurora, CO                 | 5348          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Fall River, MA             | 3553          | COMP+CAN        |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | San Antonio, TX            | 3646          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Indianapolis, IN           | 4752          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Lithia Springs, GA         | 4983          | COMP+CAN        |               | 165 U                         | A                     |
| Trulite Glass and Aluminum<br>Solutions - East        | Salt Lake City, UT         | 4478          | COMPOSITE       |               | 250 U                         | A                     |
| United Plate Glass Company of<br>Charlotte            | Lincolnton, NC             | 4197          | COMPOSITE       |               | 165 U                         | A                     |
| Vetreria Valentini S.R.L.                             | Brescia, Italy             | 2423          | COMPOSITE       |               | 400 U                         | A                     |
| View Inc.                                             | Olive Branch, MS           | 4726          | 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>5/32 Inch Tempered Transparent Glass</i>  |                              |               |                 |               |                               |                       |
| 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.             | Foshan, Guangdong, China     | 3736          | COMP+CAN        | 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                 | Quakertown, PA               | 2509          | COMPOSITE       | 100 U         | A                             |                       |
| AGC Flat Glass North America                 | Greenland, TN                | 220           | COMP+CAN        | 285 U         | A                             |                       |
| AGC Flat Glass North America                 | Spring Hill, KS              | 1704          | COMP+CAN        | 500 U         | A                             |                       |
| Al Abbar Architectural Glass                 | Dubai, United Arab Emirates  | 4846          | COMPOSITE       | 100 U         | A                             |                       |
| Aldora Aluminum and Glass Products Inc.      | Charleston, SC               | 4330          | COMPOSITE       | 285 U         | A                             |                       |
| Aldora Aluminum and Glass Products, Inc.     | Miramar, FL                  | 4716          | COMPOSITE       | 285 U         | A                             |                       |
| All Team Glass & Mirror, Ltd.                | Woodbridge, ON Canada        | 1755          | COMPOSITE       | 100 U         | A                             |                       |
| American Insulated Glass Inc.                | Conley, GA                   | 5284          | COMPOSITE       | 165 U         | A                             |                       |
| American Shower Door                         | Los Angeles, CA              | 4616          | COMPOSITE       | 250 U         | A                             |                       |
| Amsco Windows                                | Salt Lake City, UT           | 2580          | COMPOSITE       | 750 U         | A                             |                       |
| Anthony International                        | Madison, GA                  | 2352          | COMPOSITE       | 165 U         | A                             |                       |
| Anthony International                        | San Fernando, CA             | 999           | ANSI ONLY       | 250 U         | A                             |                       |
| Architectural Glass Products, LLC            | St. Louis, MO                | 4572          | COMPOSITE       | 100 U         | A                             |                       |
| Arlene Stained Glass & Door                  | Houston, TX                  | 3583          | COMPOSITE       | 175 U         | A                             |                       |
| 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                                  | Waxahachie, TX               | 2701          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal CG                                  | Moreno Valley, CA            | 2295          | CPSC ONLY       | 250 U         |                               |                       |
| Cardinal CG                                  | Northfield, MN               | 1987          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                  | Galt, CA                     | 2359          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal CG                                  | Spring Green, WI             | 2069          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal CG                                  | Loveland, CO                 | 3581          | COMPOSITE       | 900 U         | A                             |                       |
| Cardinal CG                                  | Tumwater, WA                 | 2009          | COMP+CAN        | 195 U         | A                             |                       |
| Cardinal CG                                  | Buford, GA                   | 1923          | COMP+CAN        | 165 U         | A                             |                       |
| Cardinal CG                                  | Mazomanie, WI                | 5306          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                  | Casa Grande, AZ              | 2880          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal CT                                  | Adel, GA                     | 5097          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                  | Mount Airy, NC               | 4580          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                  | Easton, PA                   | 4758          | COMPOSITE       | 100 U         | A                             |                       |
| Cardinal CT                                  | Utica, OH                    | 4622          | COMPOSITE       | 100 U         | A                             |                       |
| Cardinal CT - S                              | Irving TX                    | 5103          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal CT - W                              | Irving TX                    | 5247          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal FG                                  | Durant, OK                   | 2911          | COMP+CAN        | 900 U         | A                             |                       |
| Cardinal IG                                  | Greenfield, IA               | 1829          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal IG                                  | Spring Green, WI             | 1833          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal IG                                  | Hood River, OR               | 2833          | COMP+CAN        | 750 U         | A                             |                       |
| Cardinal IG                                  | Tomah, WI                    | 2319          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal IG                                  | Waxahachie, TX               | 2330          | COMP+CAN        | 175 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                                  | Vinton, VA                   | 2921          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                  | Los Angeles, CA              | 5087          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal IG                                  | Fargo, ND                    | 2233          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal LG                                  | Ocala, FL                    | 3507          | 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>     |                             |               |                 |               |                               |                       |
| Cardinal LG                                     | Amery, WI                   | 5193          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal Tempering                              | Louisville, KY              | 3872          | COMPOSITE       |               | 900 U                         | A                     |
| Cardinal TG                                     | Chehalis, WA                | 3458          | COMP+CAN        |               | 750 U                         | A                     |
| Cardinal TG                                     | Tomah, WI                   | 1806          | COMP+CAN        |               | 600 U                         | A                     |
| Changshu Hard Glass Co., Ltd.                   | Changshu, Jiangsu, China    | 2988          | COMPOSITE       |               | 125 U                         | A                     |
| Chicago Tempered Glass, Inc.                    | Chicago, IL                 | 3087          | COMPOSITE       |               | 200 U                         | A                     |
| ClearEdge Glass                                 | Baton Rouge, LA             | 5310          | COMPOSITE       |               | 900 U                         | A                     |
| Columbia Commercial Bldg Prod.                  | 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       |               | 285 30x76                     | A                     |
| Consolidated Glass Corp.                        | New Castle, PA              | 2005          | COMPOSITE       |               | 285 U                         | A                     |
| Contour Industries, Inc.                        | Surgoinsville, TN           | 1678          | COMP+CAN        |               | 285 U                         | A                     |
| Contract Glass                                  | Wilmington, MA              | 4972          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                            | Valencia, CA                | 3466          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                 | Tuscaloosa, AL              | 1910          | COMPOSITE       |               | 165 U                         | A                     |
| Custom Glass Solutions Millbury Corp.           | Millbury, OH                | 1576          | COMPOSITE       |               | 200 U                         | A                     |
| D3 Glass, LLC                                   | Fort Myers, FL              | 4834          | COMPOSITE       |               | 285 U                         | A                     |
| Dalian Huaying Glass Products Co., Ltd.         | Dalian, Liaoning, China     | 5261          | COMPOSITE       |               | 900 U                         | A                     |
| 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.        | Huzhou, Zhejiang, China     | 4057          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                               | Langley, BC Canada          | 4500          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                      | Van Buren, AR               | 3912          | COMPOSITE       |               | 900 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.      | Dongguan, Guangdong, China  | 3933          | COMP+CAN        |               | 125 U                         | A                     |
| Downey Glass Industries, LLC                    | Pompano Beach, FL           | 2661          | COMPOSITE       |               | 285 U                         | A                     |
| EFCO Corporation                                | Monett, MO                  | 1901          | COMPOSITE       |               | 175 U                         | A                     |
| EFI                                             | Kernersville, NC            | 5208          | COMP+CAN        |               | 165 U                         | A                     |
| Engineered Glass Products, L.L.C.               | Chicago, IL                 | 2590          | COMPOSITE       |               | 200 30x72                     | A                     |
| Fairis C.A.                                     | Ambato, Tungurahua, Ecuador | 4426          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Distributors                         | Jacksonville, FL            | 3823          | COMPOSITE       |               | 285 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory  | Foshan, Guangdong, China    | 4669          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. | Foshan, Guangdong, China    | 5388          | COMPOSITE       |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd   | Nan'an Fujian China         | 5090          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                       | Burnaby, BC                 | 5124          | COMP+CAN        |               | 750 U                         | A                     |
| General Glass                                   | Portland, OR                | 4033          | COMPOSITE       |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                    | Secaucus, NJ                | 2226          | COMPOSITE       |               | 100 U                         | A                     |
| Glass and Mirror Craft                          | Wixom, MI                   | 4199          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Dynamics, Inc.                            | Stoneville, NC              | 2730          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Enterprises, Inc.                         | Bensalem, PA                | 4628          | COMPOSITE       |               | 100 U                         | A                     |
| GlassFab Tempering Services Inc.                | Tracy, CA                   | 4889          | COMPOSITE       |               | 125 U                         | A                     |
| Glasswerks LA, Inc.                             | South Gate, CA              | 4805          | COMPOSITE       |               | 250 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 Fabrication Inc.                       | Webster, MA                 | 1216          | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Industries Corp.                       | Kingsburg, CA               | 970           | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                       | Carleton, MI                | 631           | 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> |
|---------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>3/16 Inch Tempered Transparent Glass</i> |                            |               |                 |               |                               |                       |
| Guardian Industries Corp.                   | DeWitt, IA                 | 2022          | COMPOSITE       | 500 U         | A                             |                       |
| Guardian Industries Corp.                   | Geneva, NY                 | 2261          | COMPOSITE       | 400 U         | A                             |                       |
| Guardian Industries Corp.                   | Richburg, SC               | 1632          | COMPOSITE       | 285 U         | A                             |                       |
| Guardian Industries Corp.                   | Corsicana, TX              | 1250          | COMPOSITE       | 175 U         | A                             |                       |
| Guardian Industries Corp.                   | Galax, VA                  | 4606          | COMP+CAN        | 285 U         | A                             |                       |
| Insulated Glass of America, Inc.            | Dallas, NC                 | 3861          | COMPOSITE       | 165 U         | A                             |                       |
| Insulite Glass Co., Inc.                    | Olathe, KS                 | 3714          | COMPOSITE       | 150 U         | A                             |                       |
| Integral Seal Mfg. Inc.                     | Concord, ON Canada         | 4683          | COMP+CAN        | 100 U         | A                             |                       |
| Interglass Corp                             | Miami, FL                  | 5032          | COMPOSITE       | 285 U         | A                             |                       |
| Intex Glass (Xiamen) Co., Ltd.              | Xiamen, Fujian, China      | 2574          | COMP+CAN        | 200 U         | A                             |                       |
| Intigral                                    | Walton Hills, OH           | 2052          | COMP+CAN        | 200 U         | A                             |                       |
| Jiangmen SYP Engineering Glass              | Jiangmen, Guangdong, China | 4304          | COMP+CAN        | 125 U         | A                             |                       |
| Jin Yao Chang Tempered Glass Co., Ltd       | , Guangdong                | 5293          | COMPOSITE       | 125 U         | A                             |                       |
| JM Glass                                    | Hayward, CA                | 4928          | COMPOSITE       | 125 U         | A                             |                       |
| JYC Glass Co. Ltd.                          | Foshan, Guangdong, China   | 3959          | COMPOSITE       | 125 U         | A                             |                       |
| Kawneer - (Cranberry) a division of Alcoa   | Cranberry Township, PA     | 2489          | COMPOSITE       | 100 U         | A                             |                       |
| Kohler Company                              | Union City, TN             | 1981          | COMPOSITE       | 165 U         | A                             |                       |
| Maryland Glass & Mirror                     | Baltimore, MD              | 4319          | COMPOSITE       | 100 U         | A                             |                       |
| McGrory Glass                               | Paulsboro, NJ              | 4925          | COMPOSITE       | 100 U         | A                             |                       |
| Multiver                                    | Vanier, QC                 | 4524          | COMPOSITE       | 400 U         | A                             |                       |
| Nashville Tempered Glass Corp.              | Nashville, TN              | 1467          | COMP+CAN        | 285 U         | A                             |                       |
| Nashville Tempered Glass LLC                | Hendersonville, TN         | 2692          | COMP+CAN        | 285 U         | A                             |                       |
| New Angle Beveling                          | 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®                 | Pointe-aux-Trembles, QC    | 1997          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Miami, FL                  | 3497          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Hauppauge, NY              | 1547          | COMP+CAN        | 400 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Houston, TX                | 3158          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Covington, GA              | 3331          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Wright City, MO            | 3139          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Warrenton, MO              | 3146          | COMP+CAN        | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Vancouver, WA              | 3221          | COMP+CAN        | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Phoenix, AZ                | 3130          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Moorestown, NJ             | 3182          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Los Angeles, CA            | 630           | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Albertville, MN            | 3106          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Langley, BC                | 3288          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Concord, ON                | 3441          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Denver, CO                 | 3312          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Shawnee, OK                | 3097          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Rock Hill, SC              | 3277          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Fremont, CA                | 3193          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Tampa, FL                  | 3118          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Calgary, AB                | 3265          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Indianapolis, IN           | 2211          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Grand Prairie, TX          | 3252          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Schofield, WI              | 3169          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                 | Perrysburg, OH             | 3235          | COMP+CAN        | 100 U         | A                             |                       |
| Paragon Tempered Glass                      | Antwerp, OH                | 2686          | COMPOSITE       | 500 U         | A                             |                       |
| PFG Glass                                   | Langley, BC                | 3540          | COMP+CAN        | 750 U         | A                             |                       |



**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>                       |                                              |               |                 |               |                               |                       |
| PGT Industries                                                    | Nokomis, FL                                  | 2390          | COMPOSITE       |               | 285 U                         | A                     |
| PPG Inds. Inc.                                                    | Barrie, ON                                   | 5205          | COMP+CAN        |               | 800 U                         | A                     |
| PPG Inds. Inc.                                                    | Burlington, IA                               | 1603          | COMP+CAN        |               | 500 U                         | A                     |
| PPG Inds. Inc.                                                    | Carlisle, PA                                 | 249           | COMP+CAN        |               | 400 U                         | A                     |
| PPG Inds., Inc.                                                   | Wichita Falls, TX                            | 1112          | COMPOSITE       |               | 175 U                         | A                     |
| Prelco Inc.                                                       | Riviere-du-loup, QC                          | 2713          | COMP+CAN        |               | 800 U                         | A                     |
| Prelco Inc.                                                       | Saint-Jacques, NB                            | 4913          | COMP+CAN        |               | 800 U                         | A                     |
| Productos De Valor Agregado en<br>Cristal S.A. de C.V.            | San Juan Ixhuatepec,<br>Tlalnepantla, Mexico | 4639          | COMPOSITE       |               | 175 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                     |
| Robover Inc.                                                      | Quebec City, QC                              | 5201          | COMP+CAN        |               | 800 U                         | A                     |
| SAAND London                                                      | London, ON Canada                            | 3979          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Ottawa                                                      | Stittsville, ON                              | 4951          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Rexdale                                                     | Rexdale, ON                                  | 4997          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Toronto                                                     | Toronto, ON Canada                           | 3023          | COMP+CAN        |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                                       | Sweetwater, TN                               | 1201          | COMP+CAN        |               | 285 U                         | A                     |
| SCHOTT Gemtron (Canada)<br>Corporation                            | Midland, ON Canada                           | 3636          | COMPOSITE       |               | 100 U                         | A                     |
| Shanghai SYP Engineering Glass                                    | Shanghai, China                              | 4068          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                                       | Westbrook, ME                                | 2963          | COMPOSITE       |               | 100 U                         | A                     |
| Simonton Windows                                                  | Ellenboro, WV                                | 2888          | COMPOSITE       |               | 100 U                         | A                     |
| Simonton Windows                                                  | Paris, IL                                    | 4978          | COMPOSITE       |               | 150 U                         | A                     |
| Solar Seal Company                                                | South Easton, MA                             | 1871          | COMPOSITE       |               | 100 U                         | A                     |
| Swift Glass Co., Inc.                                             | Elmira Heights, NY                           | 1556          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                                          | Syracuse, NY                                 | 2957          | COMPOSITE       |               | 400 U                         | A                     |
| Tai Shan City Da Heng Art Glass Ltd.                              | Tai Shan, Guangdong, China                   | 3789          | COMPOSITE       |               | 750 U                         | A                     |
| Taiwan Glass Industry Corp.                                       | Taipei, Taiwan, China                        | 3887          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                                | Surgoinsville, TN                            | 2549          | COMP+CAN        |               | 285 U                         | A                     |
| Tecnoglass S.A.                                                   | Barranquilla, Colombia                       | 1993          | COMP+CAN        |               | 285 U                         | A                     |
| Tempco Glass                                                      | Flushing, NY                                 | 5010          | COMPOSITE       |               | 400 U                         | A                     |
| Texas Tempered, a Trulite Glass and<br>Aluminum Solutions Company | Houston, TX                                  | 4848          | COMPOSITE       |               | 175 U                         | A                     |
| TG Changjiang Glass Co., Ltd                                      | Kunshan City, Jiangsu, China                 | 5177          | COMP+CAN        |               | 750 U                         | A                     |
| Thermal Seal Insulating Glass                                     | Uxbridge, MA                                 | 4823          | COMPOSITE       |               | 285 U                         | A                     |
| Thermo BSL                                                        | Riviere-du-loup, QC                          | 4292          | COMPOSITE       |               | 800 U                         | A                     |
| Thermoseal Industries, LLC                                        | Gloucester City, NJ                          | 4470          | COMPOSITE       |               | 100 U                         | A                     |
| Thompson I.G. LLC.                                                | Fenton, MI                                   | 5304          | COMP+CAN        |               | 400 U                         | A                     |
| Tianjin CSG Energy Conservation<br>Glass Co., Ltd                 | Tianjin, China                               | 4022          | COMPOSITE       |               | 100 U                         | A                     |
| TianJin Dong Sung Home Building<br>Materials Co. Ltd.             | Tianjin, China                               | 2890          | COMPOSITE       |               | 250 U                         | A                     |
| Tianjin SYP Engineering Glass                                     | Tianjin, China                               | 4075          | COMP+CAN        |               | 125 U                         | A                     |
| Tri-Star Glass                                                    | Grand Prairie, TX                            | 5108          | ANSI ONLY       |               | 175 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 and Aluminum Solutions                              | Atlanta, GA                                  | 862           | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Aurora, CO                                   | 5342          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | San Antonio, TX                              | 3839          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Lithia Springs, GA                           | 4984          | COMP+CAN        |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Fall River, MA                               | 3648          | COMP+CAN        |               | 400 U                         | A                     |

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|                                                |                              | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|------------------------------------------------|------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/16 Inch Tempered Transparent Glass           |                              |               |                 |               |                               |                       |
| Trulite Glass and Aluminum Solutions           | City of Industry, CA         | 4184          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Hebron, OH                   | 2197          | COMP+CAN        |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Houston, TX                  | 3925          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Knoxville, TN                | 4152          | COMP+CAN        |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Richmond, VA                 | 2522          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Columbus, OH                 | 4746          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Las Vegas, NV                | 4212          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Orlando, FL                  | 5185          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | New Berlin, WI               | 5318          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Indianapolis, IN             | 4922          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Grenada, MS                  | 2788          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Pittsburgh, PA               | 1785          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East    | Salt Lake City, UT           | 4266          | 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       |               | 165 U                         | A                     |
| Unitex Glass Chengdu Co., Ltd                  | Chendu, Sichuan, China       | 5407          | ANSI ONLY       |               | 200 U                         | A                     |
| View Inc.                                      | Olive Branch, MS             | 4727          | COMPOSITE       |               | 175 U                         | A                     |
| Viracon Inc.                                   | Statesboro, GA               | 2314          | COMP+CAN        |               | 165 U                         | A                     |
| Viracon Inc.                                   | Owatonna, MN                 | 1403          | COMP+CAN        |               | 150 U                         | A                     |
| Virginia Glass Products Corp.                  | Martinsville, VA             | 12            | COMPOSITE       |               | 100 U                         | A                     |
| Vitra Vidrios Transformados SA de CV           | Cortes, Honduras             | 4651          | COMPOSITE       |               | 285 U                         | A                     |
| Viwinco, Inc.                                  | Morgantown, PA               | 3405          | COMPOSITE       |               | 100 U                         | A                     |
| W. A. Wilson Inc.                              | Wheeling, WV                 | 4170          | COMPOSITE       |               | 200 U                         | A                     |
| Wholesale Glass Dist.                          | Memphis, TN                  | 4379          | COMPOSITE       |               | 150 U                         | A                     |
| WSD Glass, Inc.                                | Winston-Salem, NC            | 4048          | COMPOSITE       |               | 165 U                         | A                     |
| Wuhan Aozheng Science and Technology Co., Ltd. | Wuhan, Hubei, China          | 5238          | COMPOSITE       |               | 195 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                  | Dongguan, Guangdong, China   | 3085          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.               | Foshan, Guangdong, China     | 3737          | COMP+CAN        |               | 285 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co., LTD.       | Foshan, Guangdong, China     | 4875          | ANSI ONLY       |               | 285 U                         | A                     |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.   | Zhangjiagang, Jiangsu, China | 4094          | COMPOSITE       |               | 250 U                         | A                     |
| 1/4 Inch Tempered Transparent Glass            |                              |               |                 |               |                               |                       |
| A Plus Glass Services                          | Medley, FL                   | 4771          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                   | Spring Hill, KS              | 1705          | COMP+CAN        |               | 500 U                         | A                     |
| AGC Flat Glass North America                   | Quakertown, PA               | 2666          | COMPOSITE       |               | 100 U                         | A                     |
| AGC Flat Glass North America                   | Greenland, TN                | 89            | COMP+CAN        |               | 285 U                         | A                     |
| AGNORA (Architectural Glass North America)     | Collingwood, ON Canada       | 4883          | COMP+CAN        |               | 100 U                         | A                     |
| Al Abbar Architectural Glass                   | Dubai, United Arab Emirates  | 3556          | COMPOSITE       |               | 100 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.        | Charleston, SC               | 4331          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.       | Miramar, FL                  | 4717          | COMPOSITE       |               | 285 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 Insulated Glass Inc.                  | Conley, GA                   | 5285          | COMPOSITE       |               | 165 U                         | A                     |
| American Shower Door                           | Los Angeles, CA              | 3039          | COMPOSITE       |               | 250 U                         | A                     |
| Amsco Windows                                  | Salt Lake City, UT           | 2581          | COMPOSITE       |               | 750 U                         | A                     |
| Anthony International                          | San Fernando, CA             | 1000          | ANSI ONLY       |               | 250 U                         | A                     |

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

|                                            |                            | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i> |                            |               |                 |               |                               |                       |
| 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       | 175 U         | A                             |                       |
| AVIC Sanxin Co. Ltd.                       | Shenzhen, Guangdong, China | 3567          | COMPOSITE       | 285 U         | A                             |                       |
| Basco Engineered Products                  | Hamilton, OH               | 3810          | COMPOSITE       | 200 U         | A                             |                       |
| Berkowitz, J.E.                            | Pedricktown, NJ            | 4837          | COMP+CAN        | 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                                | Loveland, CO               | 3555          | COMPOSITE       | 900 U         | A                             |                       |
| Cardinal CG                                | Casa Grande, AZ            | 2881          | COMP+CAN        | 250 U         | A                             |                       |
| Cardinal CG                                | Northfield, MN             | 1988          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                | Spring Green, WI           | 2070          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal CG                                | Galt, CA                   | 2360          | COMPOSITE       | 125 U         | A                             |                       |
| Cardinal CG                                | Tumwater, WA               | 2010          | COMP+CAN        | 195 U         | A                             |                       |
| Cardinal CG                                | Buford, GA                 | 1924          | COMP+CAN        | 165 U         | A                             |                       |
| Cardinal CG                                | Mazomanie, WI              | 4783          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal CG                                | Waxahachie, TX             | 2702          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal CG                                | Moreno Valley, CA          | 2296          | CPSC ONLY       | 250 U         |                               |                       |
| Cardinal CT                                | Mount Airy, NC             | 5266          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT                                | Adel, GA                   | 5364          | COMPOSITE       | 165 U         | A                             |                       |
| Cardinal CT - S                            | Irving TX                  | 5104          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal CT - W                            | Irving TX                  | 5248          | COMPOSITE       | 175 U         | A                             |                       |
| Cardinal FG                                | Durant, OK                 | 2912          | COMP+CAN        | 900 U         | A                             |                       |
| Cardinal IG                                | Vinton, VA                 | 2922          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                | Hood River, OR             | 2834          | COMP+CAN        | 750 U         | A                             |                       |
| Cardinal IG                                | Fremont, IN                | 2179          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                | Fargo, ND                  | 2232          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal IG                                | Tomah, WI                  | 2320          | COMP+CAN        | 600 U         | A                             |                       |
| Cardinal IG                                | Waxahachie, TX             | 2331          | COMP+CAN        | 175 U         | A                             |                       |
| Cardinal IG                                | Mountain Top, PA           | 3071          | COMP+CAN        | 100 U         | A                             |                       |
| Cardinal IG                                | Greenfield, IA             | 1830          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal IG                                | Spring Green, WI           | 1834          | COMP+CAN        | 500 U         | A                             |                       |
| Cardinal LG                                | Amery, WI                  | 4841          | COMP+CAN        | 150 U         | A                             |                       |
| Cardinal LG                                | Ocala, FL                  | 3508          | COMPOSITE       | 285 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                             |                       |
| Chicago Tempered Glass, Inc.               | Chicago, IL                | 3088          | COMPOSITE       | 200 U         | A                             |                       |
| Classy Glass Specialties Co., Ltd          | Dongguan, Guangdong        | 5159          | COMPOSITE       | 200 U         | A                             |                       |
| ClearEdge Glass                            | Baton Rouge, LA            | 5311          | COMPOSITE       | 900 U         | A                             |                       |
| Columbia Commercial Bldg Prod.             | Rockwall, TX               | 4921          | COMP+CAN        | 175 U         | A                             |                       |
| Commercial Insulating Glass Co.            | Cumberland City, TN        | 3808          | COMPOSITE       | 165 U         | A                             |                       |
| Commercial Insulating Glass Co.            | Sarasota, FL               | 1891          | COMPOSITE       | 285 30x76     | A                             |                       |
| Consolidated Glass Corp.                   | New Castle, PA             | 2002          | COMPOSITE       | 285 U         | A                             |                       |
| Contour Industries, Inc.                   | Surgoinsville, TN          | 1677          | COMP+CAN        | 285 U         | A                             |                       |
| Contract Glass                             | Wilmington, MA             | 4973          | COMPOSITE       | 100 U         | A                             |                       |
| Contractors Wardrobe                       | Valencia, CA               | 3467          | COMP+CAN        | 250 U         | A                             |                       |
| Coral Industries Glass Division            | Tuscaloosa, AL             | 1911          | COMPOSITE       | 165 U         | A                             |                       |
| Custom Glass Products Inc.                 | Weston, WI                 | 4002          | COMPOSITE       | 600 U         | A                             |                       |
| Custom Glass Solutions Millbury Corp.      | Millbury, OH               | 1577          | COMPOSITE       | 200 U         | A                             |                       |
| D3 Glass, LLC                              | Fort Myers, FL             | 4795          | COMPOSITE       | 285 U         | A                             |                       |
| Dallas Flat Glass                          | Carrollton, TX             | 3701          | COMPOSITE       | 175 U         | A                             |                       |

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|                                                 |                               | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------|-------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i>      |                               |               |                 |               |                               |                       |
| Denver Glass Interiors, Inc.                    | Englewood, CO                 | 3866          | COMPOSITE       |               | 175 U                         | A                     |
| Deqing Sanxing Plastic Chemical Co. Ltd.        | Huzhou, Zhejiang, China       | 4146          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                               | Langley, BC Canada            | 4501          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                      | Van Buren, AR                 | 3913          | COMPOSITE       |               | 900 U                         | A                     |
| Dlubak Corporation                              | Blairsville, PA               | 3017          | COMPOSITE       |               | 100 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.      | Dongguan, Guangdong, China    | 3934          | COMP+CAN        |               | 125 U                         | A                     |
| Dongguan Trillion Aluminum Glass Co., Ltd       | Dongguan, Guangdong, China    | 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        |               | 165 U                         | A                     |
| Engineered Glass Products, L.L.C.               | Chicago, IL                   | 2698          | COMPOSITE       |               | 200 30x72                     | A                     |
| Fairis C.A.                                     | Ambato, Tungurahua, Ecuador   | 4427          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Distributors                         | Jacksonville, FL              | 3824          | COMPOSITE       |               | 285 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory  | Foshan, Guangdong, China      | 4670          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. | Foshan, Guangdong, China      | 5389          | COMPOSITE       |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd   | Nan'an Fujian China           | 5091          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                       | Burnaby, BC                   | 4419          | COMP+CAN        |               | 750 U                         | A                     |
| General Glass                                   | Portland, OR                  | 4034          | COMPOSITE       |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                    | Secaucus, NJ                  | 2227          | COMPOSITE       |               | 100 U                         | A                     |
| Glas Works, Inc.                                | Dania Beach, FL               | 5019          | COMPOSITE       |               | 285 U                         | A                     |
| Glass and Mirror Craft                          | Wixom, MI                     | 4200          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Design of Miami, Inc.                     | Miami, FL                     | 3453          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                            | Stoneville, NC                | 2732          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Enterprises, Inc.                         | Bensalem, PA                  | 4629          | COMPOSITE       |               | 100 U                         | A                     |
| GlassFab Tempering Services Inc.                | Tracy, CA                     | 4891          | COMPOSITE       |               | 125 U                         | A                     |
| Glasswerks LA, Inc.                             | South Gate, CA                | 4806          | COMPOSITE       |               | 250 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             | Shantou, Guangdong, China     | 3941          | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Fabrication Inc.                       | Webster, MA                   | 662           | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Industries Corp.                       | Kingsburg, CA                 | 971           | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                       | Richburg, SC                  | 1633          | COMPOSITE       |               | 285 U                         | A                     |
| Guardian Industries Corp.                       | Geneva, NY                    | 2262          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                       | Galax, VA                     | 4607          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                       | Corsicana, TX                 | 1251          | COMPOSITE       |               | 175 U                         | A                     |
| Guardian Industries Corp.                       | DeWitt, IA                    | 2023          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Industries Corp.                       | Carleton, MI                  | 131           | COMPOSITE       |               | 200 U                         | A                     |
| Gulf Glass Industries, LLC                      | Sharjah, United Arab Emirates | 4796          | COMPOSITE       |               | 100 U                         | A                     |
| Inkan Ltd                                       | Brampton, ON                  | 5135          | COMP+CAN        |               | 100 U                         | A                     |
| Insulated Glass of America, Inc.                | Dallas, NC                    | 3862          | COMPOSITE       |               | 165 U                         | A                     |
| Insulite Glass Co., Inc.                        | Olathe, KS                    | 3715          | COMPOSITE       |               | 150 U                         | A                     |
| Integral Seal Mfg. Inc.                         | Concord, ON Canada            | 4684          | COMP+CAN        |               | 100 U                         | A                     |
| Interglass Corp                                 | Miami, FL                     | 5033          | COMPOSITE       |               | 285 U                         | A                     |

***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       |                            |               |                 |               |                               |                       |
| Intex Glass (Xiamen) Co., Ltd.            | Xiamen, Fujian, China      | 2575          | COMP+CAN        |               | 200 U                         | A                     |
| Intigral                                  | Walton Hills, OH           | 2055          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass            | Jiangmen, Guangdong, China | 4305          | COMP+CAN        |               | 125 U                         | A                     |
| Jiangyin Mingyang Glass Production        | Jiangyin City, Jiangsu     | 5417          | COMPOSITE       |               | 125 U                         | A                     |
| Jiaxing Joinbath Corporation              | Jiaxing, Zhejiang, China   | 5196          | COMPOSITE       |               | 125 U                         | A                     |
| JM Glass                                  | Hayward, CA                | 4929          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                        | Foshan, Guangdong, China   | 3960          | COMPOSITE       |               | 125 U                         | A                     |
| Kawneer - (Cranberry) a division of Alcoa | Cranberry Township, PA     | 2490          | COMPOSITE       |               | 100 U                         | A                     |
| Kohler Company                            | Union City, TN             | 1982          | COMPOSITE       |               | 165 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          | COMP+CAN        |               | 285 U                         | A                     |
| Nashville Tempered Glass LLC              | Hendersonville, TN         | 2693          | COMP+CAN        |               | 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®               | Covington, GA              | 3332          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Moorestown, NJ             | 3183          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Hauppauge, NY              | 1548          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Pointe-aux-Trembles, QC    | 2543          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Albertville, MN            | 3107          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Schofield, WI              | 3170          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Langley, BC                | 3289          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Wright City, MO            | 3140          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Warrenton, MO              | 3147          | COMP+CAN        |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Tampa, FL                  | 3119          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Rock Hill, SC              | 3278          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Shawnee, OK                | 3098          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Phoenix, AZ                | 3131          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Denver, CO                 | 3313          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Vancouver, WA              | 3222          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Los Angeles, CA            | 514           | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Perrysburg, OH             | 3236          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Miami, FL                  | 3498          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Grand Prairie, TX          | 3253          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Fremont, CA                | 3194          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Indianapolis, IN           | 2212          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Houston, TX                | 3159          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Concord, ON                | 3442          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Calgary, AB                | 3266          | COMP+CAN        |               | 750 U                         | A                     |
| Paragon Tempered Glass                    | Antwerp, OH                | 2687          | COMPOSITE       |               | 500 U                         | A                     |
| Patio Enclosures                          | Macedonia, OH              | 3015          | COMPOSITE       |               | 200 U                         | A                     |
| PFG Glass                                 | Langley, BC                | 3541          | COMP+CAN        |               | 750 U                         | A                     |
| PGT Industries                            | Nokomis, FL                | 2391          | COMPOSITE       |               | 285 U                         | A                     |
| PPG Inds. Inc.                            | Carlisle, PA               | 382           | COMP+CAN        |               | 400 U                         | A                     |
| PPG Inds. Inc.                            | Barrie, ON                 | 5206          | COMP+CAN        |               | 800 U                         | A                     |

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|                                                                   |                                              | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------------------|----------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/4 Inch Tempered Transparent Glass</i>                        |                                              |               |                 |               |                               |                       |
| PPG Inds. Inc.                                                    | Burlington, IA                               | 1604          | COMP+CAN        | 500 U         | A                             |                       |
| PPG Inds., Inc.                                                   | Wichita Falls, TX                            | 1113          | COMPOSITE       | 175 U         | A                             |                       |
| Prelco Inc.                                                       | Saint-Jacques, NB                            | 4914          | COMP+CAN        | 800 U         | A                             |                       |
| Prelco Inc.                                                       | Riviere-du-loup, QC                          | 2015          | COMP+CAN        | 800 U         | A                             |                       |
| Productos De Valor Agregado en<br>Cristal S.A. de C.V.            | San Juan Ixhuatepec,<br>Tlalnepantla, Mexico | 4645          | COMPOSITE       | 175 U         | A                             |                       |
| Quaker Window Products, Inc.                                      | Freeburg, MO                                 | 3485          | COMP+CAN        | 150 U         | A                             |                       |
| Quality Glass & Mirror, Inc.                                      | Mount Prospect, IL                           | 2982          | COMPOSITE       | 500 U         | A                             |                       |
| Ready Glass & Mirror, Inc.                                        | Hialeah, FL                                  | 3746          | COMPOSITE       | 285 U         | A                             |                       |
| Reem Emirates Aluminum & Glass                                    | Abu Dhabi, United Arab Emirates              | 4675          | COMPOSITE       | 150 U         | A                             |                       |
| RF Supply, Inc.                                                   | Bradenton, FL                                | 4225          | COMPOSITE       | 285 U         | A                             |                       |
| Robover Inc.                                                      | Quebec City, QC                              | 5202          | COMP+CAN        | 800 U         | A                             |                       |
| SAAND London                                                      | London, ON Canada                            | 3980          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Ottawa                                                      | Stittsville, ON                              | 4952          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Rexdale                                                     | Rexdale, ON                                  | 4998          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Toronto                                                     | Toronto, ON Canada                           | 2484          | COMP+CAN        | 400 U         | A                             |                       |
| 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                             |                       |
| Shanghai Mingte Glass Technology<br>Co., Ltd.                     | Shanghai, China                              | 4933          | COMP+CAN        | 250 U         | A                             |                       |
| Shanghai SYP Engineering Glass                                    | Shanghai, China                              | 4069          | COMPOSITE       | 125 U         | A                             |                       |
| SIGCO, Inc.                                                       | Westbrook, ME                                | 2964          | COMPOSITE       | 100 U         | A                             |                       |
| Solar Seal Company                                                | South Easton, MA                             | 1035          | COMPOSITE       | 100 U         | A                             |                       |
| Solar Seal Connecticut                                            | Hamden, CT                                   | 4523          | COMPOSITE       | 400 U         | A                             |                       |
| Swift Glass Co., Inc.                                             | Elmira Heights, NY                           | 1557          | COMPOSITE       | 400 U         | A                             |                       |
| Syracuse Glass Co., Inc.                                          | Syracuse, NY                                 | 2656          | COMPOSITE       | 400 U         | A                             |                       |
| Tacoma Glass Mfg. Inc.                                            | Lakewood, WA                                 | 4730          | COMPOSITE       | 195 U         | A                             |                       |
| Tacoma Glass Mfg. Inc.                                            | Burlington, WA                               | 5165          | COMPOSITE       | 195 U         | A                             |                       |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                               | Dongguan, Guangdong, China                   | 4872          | COMPOSITE       | 285 U         | A                             |                       |
| Taiwan Glass Industry Corp.                                       | Taipei, Taiwan, China                        | 3888          | COMPOSITE       | 750 U         | A                             |                       |
| Techni-Glass, Inc.                                                | Surgoinsville, TN                            | 2975          | COMP+CAN        | 285 U         | A                             |                       |
| Tecnoglass S.A.                                                   | Barranquilla, Colombia                       | 1994          | COMP+CAN        | 285 U         | A                             |                       |
| Tempco Glass                                                      | Flushing, NY                                 | 5011          | COMPOSITE       | 400 U         | A                             |                       |
| Texas Tempered, a Trulite Glass and<br>Aluminum Solutions Company | Houston, TX                                  | 4849          | COMPOSITE       | 175 U         | A                             |                       |
| TG Changjiang Glass Co., Ltd                                      | Kunshan City, Jiangsu, China                 | 5178          | COMP+CAN        | 750 U         | A                             |                       |
| The Original Frameless Shower Door                                | Coral Springs, FL                            | 4661          | COMPOSITE       | 285 U         | A                             |                       |
| Thermal Seal Insulating Glass                                     | Uxbridge, MA                                 | 4824          | COMPOSITE       | 285 U         | A                             |                       |
| Thermo BSL                                                        | Riviere-du-loup, QC                          | 4293          | COMPOSITE       | 800 U         | A                             |                       |
| Thermoseal Industries, LLC                                        | Gloucester City, NJ                          | 4471          | COMPOSITE       | 100 U         | A                             |                       |
| Thompson I.G. LLC.                                                | Fenton, MI                                   | 5305          | COMP+CAN        | 400 U         | A                             |                       |
| Tianjin CSG Energy Conservation<br>Glass Co., Ltd                 | Tianjin, China                               | 4023          | COMPOSITE       | 100 U         | A                             |                       |
| TianJin Dong Sung Home Building<br>Materials Co. Ltd.             | Tianjin, China                               | 3094          | COMPOSITE       | 250 U         | A                             |                       |
| Tianjin SYP Engineering Glass                                     | Tianjin, China                               | 4076          | COMP+CAN        | 125 U         | A                             |                       |
| Tri-Star Glass                                                    | Tulsa, OK                                    | 4007          | COMPOSITE       | 175 U         | A                             |                       |
| Tri-Star Glass                                                    | Grand Prairie, TX                            | 5109          | ANSI ONLY       | 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 and Aluminum Solutions                              | Las Vegas, NV                                | 4213          | COMPOSITE       | 250 U         | A                             |                       |
| Trulite Glass and Aluminum Solutions                              | Pittsburgh, PA                               | 1786          | COMPOSITE       | 100 U         | A                             |                       |

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|                                                |                                               | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|------------------------------------------------|-----------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 1/4 Inch Tempered Transparent Glass            |                                               |               |                 |               |                               |                       |
| Trulite Glass and Aluminum Solutions           | Indianapolis, IN                              | 4923          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | New Berlin, WI                                | 5319          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | City of Industry, CA                          | 4185          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Aurora, CO                                    | 5343          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Houston, TX                                   | 3926          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Atlanta, GA                                   | 863           | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Columbus, OH                                  | 4747          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Grenada, MS                                   | 2789          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Orlando, FL                                   | 5184          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | San Antonio, TX                               | 3326          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Hebron, OH                                    | 2198          | COMP+CAN        |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Fall River, MA                                | 1520          | COMP+CAN        |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Lithia Springs, GA                            | 4985          | COMP+CAN        |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Knoxville, TN                                 | 4153          | COMP+CAN        |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions           | Richmond, VA                                  | 1957          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East    | Salt Lake City, UT                            | 4267          | 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       |               | 165 U                         | A                     |
| Unitex Glass Chengdu Co., Ltd                  | Chendu, Sichuan, China                        | 5408          | ANSI ONLY       |               | 200 U                         | A                     |
| Upstate Glass Tempering Inc.                   | Middletown, NY                                | 5157          | COMPOSITE       |               | 400 U                         | A                     |
| Vidrio Bisel S.A. de C.V.                      | Santa Catarina, Nuevo Leon, Mexico            | 4966          | COMPOSITE       |               | 175 U                         | A                     |
| Vidrios El Castillo SC de RL de CV             | Escobedo, Nuevo Leon, Mexico                  | 3985          | COMPOSITE       |               | 175 U                         | A                     |
| Vidrios Marte SA de CV                         | Azcapotzalco, Distrito Federal Mexico, 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                     |
| Vitemex                                        | Reynosa, Tamaulipas                           | 5393          | COMPOSITE       |               | 175 U                         | A                     |
| Vitra Vidrios Transformados SA de CV           | Cortes, Honduras                              | 4652          | COMPOSITE       |               | 285 U                         | A                     |
| W. A. Wilson Inc.                              | Wheeling, WV                                  | 4171          | COMPOSITE       |               | 200 U                         | A                     |
| White Aluminum Enterprises LLC                 | Abu Dhabi, United Arab Emirates               | 4598          | COMPOSITE       |               | 150 U                         | A                     |
| Wholesale Glass Dist.                          | Memphis, TN                                   | 4380          | COMPOSITE       |               | 150 U                         | A                     |
| WSD Glass, Inc.                                | Winston-Salem, NC                             | 4049          | COMPOSITE       |               | 165 U                         | A                     |
| Wuhan Aozheng Science and Technology Co., Ltd. | Wuhan, Hubei, China                           | 5239          | COMPOSITE       |               | 195 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.        | Wujiang City,                                 | 5251          | COMPOSITE       |               | 125 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                  | Dongguan, Guangdong, China                    | 3053          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.               | Foshan, Guangdong, China                      | 3738          | COMP+CAN        |               | 285 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co., LTD.       | Foshan, Guangdong, China                      | 4876          | ANSI ONLY       |               | 285 U                         | A                     |
| Zhangjiagang Weiyu Fabricated Glass Co. Ltd.   | Zhangjiagang, Jiangsu, China                  | 4095          | COMPOSITE       |               | 250 U                         | A                     |
| 5/16 Inch Tempered Transparent Glass           |                                               |               |                 |               |                               |                       |
| AGC Flat Glass North America                   | Greenland, TN                                 | 4046          | COMP+CAN        |               | 285 U                         | A                     |
| Al Abbar Architectural Glass                   | Dubai, United Arab Emirates                   | 3557          | COMPOSITE       |               | 100 U                         | A                     |
| All Team Glass & Mirror, Ltd.                  | Woodbridge, ON Canada                         | 2790          | COMPOSITE       |               | 100 U                         | A                     |
| Alyusuf Thermo Glass W.L.L.                    | Manama, Bahrain                               | 4496          | COMPOSITE       |               | 285 U                         | A                     |
| Anthony International                          | Madison, GA                                   | 5234          | COMPOSITE       |               | 165 U                         | A                     |
| AVIC Sanxin Co. Ltd.                           | Shenzhen, Guangdong, China                    | 3568          | COMPOSITE       |               | 285 U                         | A                     |

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|                                                  |                             | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------------|-----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>5/16 Inch Tempered Transparent Glass</i>      |                             |               |                 |               |                               |                       |
| Cardinal CG                                      | Spring Green, WI            | 5281          | COMP+CAN        |               | 600 U                         | A                     |
| Cardinal CG                                      | Northfield, MN              | 4775          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal LG                                      | Amery, WI                   | 4842          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal TG                                      | Tomah, WI                   | 4881          | COMP+CAN        |               | 600 U                         | A                     |
| Changshu Xingfu Glass Building Material Co., LTD | Changshu, Jiangsu, China    | 5151          | COMPOSITE       |               | 195 U                         | A                     |
| Classy Glass Specialties Co., Ltd                | Dongguan, Guangdong         | 5160          | COMPOSITE       |               | 200 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, Guangdong, China  | 3935          | COMP+CAN        |               | 125 U                         | A                     |
| Dongguan Dongfa Glass Product Co., Ltd           | Dongguan, Guangdong, China  | 4132          | COMP+CAN        |               | 285 U                         | A                     |
| Eckelt Glas GmbH                                 | Steyr, Austria              | 2851          | COMPOSITE       |               | 100 U                         | A                     |
| EFCO Corporation                                 | Monett, MO                  | 4154          | COMPOSITE       |               | 175 U                         | A                     |
| EFI                                              | Kernersville, NC            | 5209          | COMP+CAN        |               | 165 U                         | A                     |
| Fairis C.A.                                      | Ambato, Tungurahua, Ecuador | 4428          | COMPOSITE       |               | 285 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory   | Foshan, Guangdong, China    | 4671          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.  | Foshan, Guangdong, China    | 5390          | COMPOSITE       |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd    | Nan'an Fujian China         | 5092          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                        | Burnaby, BC                 | 5219          | COMP+CAN        |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                     | Secaucus, NJ                | 4248          | COMPOSITE       |               | 100 U                         | A                     |
| Glass Dynamics, Inc.                             | Stoneville, NC              | 5259          | COMPOSITE       |               | 285 U                         | A                     |
| Guangdong Golden Glass Technologies              | Shantou, Guangdong, China   | 3942          | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Industries Corp.                        | DeWitt, IA                  | 2024          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Industries Corp.                        | Corsicana, TX               | 1826          | COMPOSITE       |               | 175 U                         | A                     |
| Guardian Industries Corp.                        | Geneva, NY                  | 3672          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                        | Richburg, SC                | 2382          | COMPOSITE       |               | 285 U                         | A                     |
| Guardian Industries Corp.                        | Galax, VA                   | 4608          | COMP+CAN        |               | 285 U                         | A                     |
| Inkan Ltd                                        | Brampton, ON                | 5136          | COMP+CAN        |               | 100 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.                   | Xiamen, Fujian, China       | 3025          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass                   | Jiangmen, Guangdong, China  | 4306          | COMP+CAN        |               | 125 U                         | A                     |
| Jin Yao Chang Tempered Glass Co., Ltd            | , Guangdong                 | 5294          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                               | Foshan, Guangdong, China    | 3961          | COMPOSITE       |               | 125 U                         | A                     |
| Kawneer - (Cranberry) a division of Alcoa        | Cranberry Township, PA      | 2678          | COMPOSITE       |               | 100 U                         | A                     |
| Kohler Company                                   | Union City, TN              | 4668          | COMPOSITE       |               | 165 U                         | A                     |
| Mercer Glass Fab LLC                             | Trenton, NJ                 | 4530          | COMPOSITE       |               | 100 U                         | A                     |
| Multiver                                         | Vanier, QC                  | 5226          | COMPOSITE       |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Concord, ON                 | 3443          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Perrysburg, OH              | 4443          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Langley, BC                 | 3290          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Los Angeles, CA             | 4400          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Vancouver, WA               | 3223          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Pointe-aux-Trembles, QC     | 2884          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Warrenton, MO               | 3796          | COMP+CAN        |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                      | Hauppauge, NY               | 4180          | COMP+CAN        |               | 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> |
|-----------------------------------------------------|-------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 5/16 Inch Tempered Transparent Glass                |                                           |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope®                         | Wright City, MO                           | 3141          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Calgary, AB                               | 3267          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Albertville, MN                           | 4882          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Rock Hill, SC                             | 4787          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Schofield, WI                             | 3171          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                         | Fremont, CA                               | 5387          | COMP+CAN        |               | 125 U                         | A                     |
| PFG Glass                                           | Langley, BC                               | 3542          | COMP+CAN        |               | 750 U                         | A                     |
| PPG Inds., Inc.                                     | Wichita Falls, TX                         | 3577          | COMPOSITE       |               | 175 U                         | A                     |
| Prelco Inc.                                         | Riviere-du-loup, QC                       | 2751          | COMP+CAN        |               | 800 U                         | A                     |
| Prelco Inc.                                         | Saint-Jacques, NB                         | 4915          | COMP+CAN        |               | 800 U                         | A                     |
| Productos De Valor Agregado en Cristal S.A. de C.V. | San Juan Ixhuatepec, Tlalnepantla, Mexico | 4788          | COMPOSITE       |               | 175 U                         | A                     |
| Reem Emirates Aluminum & Glass                      | Abu Dhabi, United Arab Emirates           | 4676          | COMPOSITE       |               | 150 U                         | A                     |
| SAAND Toronto                                       | Toronto, ON Canada                        | 4356          | COMP+CAN        |               | 400 U                         | A                     |
| Shanghai SYP Engineering Glass                      | Shanghai, China                           | 4070          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                         | Westbrook, ME                             | 5213          | COMPOSITE       |               | 100 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                 | Dongguan, Guangdong, China                | 4873          | COMPOSITE       |               | 285 U                         | A                     |
| Taiwan Glass Industry Corp.                         | Taipei, Taiwan, China                     | 3889          | COMPOSITE       |               | 750 U                         | A                     |
| Tecnoglass S.A.                                     | Barranquilla, Colombia                    | 2134          | COMP+CAN        |               | 285 U                         | A                     |
| TG Changjiang Glass Co., Ltd                        | Kunshan City, Jiangsu, China              | 5179          | COMP+CAN        |               | 750 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd      | Tianjin, China                            | 4024          | COMPOSITE       |               | 100 U                         | A                     |
| Tianjin Northglass Industrial Technical Co., Ltd    | Tianjin, China                            | 5220          | COMPOSITE       |               | 175 U                         | A                     |
| Tianjin SYP Engineering Glass                       | Tianjin, China                            | 4077          | COMP+CAN        |               | 125 U                         | A                     |
| Triview Glass Industries                            | City of Industry, CA                      | 5042          | COMP+CAN        |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | New Berlin, WI                            | 5320          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Lithia Springs, GA                        | 5094          | COMP+CAN        |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                | Pittsburgh, PA                            | 3495          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East         | Salt Lake City, UT                        | 4994          | COMP+CAN        |               | 250 U                         | A                     |
| Viracon Inc.                                        | Statesboro, GA                            | 4720          | COMP+CAN        |               | 165 U                         | A                     |
| Viracon Inc.                                        | Owatonna, MN                              | 3689          | COMP+CAN        |               | 150 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                     |
| Wuhan Aozheng Science and Technology Co., Ltd.      | Wuhan, Hubei, China                       | 5240          | COMPOSITE       |               | 195 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.             | Wujiang City,                             | 5252          | COMPOSITE       |               | 125 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                       | Dongguan, Guangdong, China                | 4648          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                    | Foshan, Guangdong, China                  | 3739          | COMP+CAN        |               | 285 U                         | A                     |
| Yong Feng Tai Foshan City Glas Co., LTD.            | Foshan, Guangdong, China                  | 4877          | ANSI ONLY       |               | 285 U                         | A                     |
| 3/8 Inch Tempered Transparent Glass                 |                                           |               |                 |               |                               |                       |
| A Plus Glass Services                               | Medley, FL                                | 4772          | COMPOSITE       |               | 285 U                         | A                     |
| AGC Flat Glass North America                        | Greenland, TN                             | 90            | COMP+CAN        |               | 285 U                         | A                     |
| AGNORA (Architectural Glass North America)          | Collingwood, ON Canada                    | 4885          | COMP+CAN        |               | 100 U                         | A                     |
| Al Abbar Architectural Glass                        | Dubai, United Arab Emirates               | 3558          | COMPOSITE       |               | 100 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.             | Charleston, SC                            | 4335          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.            | Miramar, FL                               | 4718          | COMPOSITE       |               | 285 U                         | A                     |
| All Team Glass & Mirror, Ltd.                       | Woodbridge, ON Canada                     | 1757          | 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>       |                             |               |                 |               |                               |                       |
| Aluminum Technology Auxiliary Industries         | Doha, Qatar                 | 5084          | COMPOSITE       |               | 125 U                         | A                     |
| Alyusuf Thermo Glass W.L.L.                      | Manama, Bahrain             | 4497          | COMPOSITE       |               | 285 U                         | A                     |
| American Insulated Glass Inc.                    | Conley, GA                  | 5286          | COMPOSITE       |               | 165 U                         | A                     |
| American Shower Door                             | Los Angeles, CA             | 3040          | COMPOSITE       |               | 250 U                         | A                     |
| Anthony International                            | Madison, GA                 | 2453          | COMPOSITE       |               | 165 U                         | A                     |
| AVIC Sanxin Co. Ltd.                             | Shenzhen, Guangdong, China  | 3569          | COMPOSITE       |               | 285 U                         | A                     |
| Basco Engineered Products                        | Hamilton, OH                | 3811          | COMPOSITE       |               | 200 U                         | A                     |
| Berkowitz, J.E.                                  | Pedricktown, NJ             | 2646          | COMP+CAN        |               | 100 U                         | A                     |
| Blue Star Glass Inc.                             | North Brunswick, NJ         | 4520          | COMPOSITE       |               | 100 U                         | A                     |
| Cameron Glass, Inc.                              | Broken Arrow, OK            | 2032          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal CG                                      | Northfield, MN              | 4137          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal LG                                      | Amery, WI                   | 4843          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal Tempering                               | Louisville, KY              | 3874          | COMPOSITE       |               | 900 U                         | A                     |
| Changshu Xingfu Glass Building Material Co., LTD | Changshu, Jiangsu, China    | 5152          | COMPOSITE       |               | 195 U                         | A                     |
| Chicago Tempered Glass, Inc.                     | Chicago, IL                 | 3089          | COMPOSITE       |               | 200 U                         | A                     |
| Classy Glass Specialties Co., Ltd                | Dongguan, Guangdong         | 5161          | COMPOSITE       |               | 200 U                         | A                     |
| ClearEdge Glass                                  | Baton Rouge, LA             | 5313          | COMPOSITE       |               | 900 U                         | A                     |
| Columbia Commercial Bldg Prod.                   | Rockwall, TX                | 5022          | COMP+CAN        |               | 175 U                         | A                     |
| Consolidated Glass Corp.                         | New Castle, PA              | 2003          | COMPOSITE       |               | 285 U                         | A                     |
| Contour Industries, Inc.                         | Surgoinsville, TN           | 4702          | COMP+CAN        |               | 285 U                         | A                     |
| Contract Glass                                   | Wilmington, MA              | 4974          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                             | Valencia, CA                | 3469          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                  | Tuscaloosa, AL              | 2144          | COMPOSITE       |               | 165 U                         | A                     |
| 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.         | Huzhou, Zhejiang, China     | 4147          | COMPOSITE       |               | 750 U                         | A                     |
| Diamond Sea Glaze                                | Langley, BC Canada          | 4503          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                       | Van Buren, AR               | 3914          | COMPOSITE       |               | 900 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.       | Dongguan, Guangdong, China  | 3936          | COMP+CAN        |               | 125 U                         | A                     |
| Dongguan Dongfa Glass Product Co., Ltd           | Dongguan, Guangdong, China  | 4125          | COMP+CAN        |               | 285 U                         | A                     |
| Downey Glass Industries, LLC                     | Pompano Beach, FL           | 2663          | COMPOSITE       |               | 285 U                         | A                     |
| Eckelt Glas GmbH                                 | Steyr, Austria              | 2852          | COMPOSITE       |               | 100 U                         | A                     |
| EFI                                              | Kernersville, NC            | 5210          | COMP+CAN        |               | 165 U                         | A                     |
| Fairis C.A.                                      | Ambato, Tungurahua, Ecuador | 4429          | COMPOSITE       |               | 285 U                         | A                     |
| Flat Glass Distributors                          | Jacksonville, FL            | 3825          | COMPOSITE       |               | 285 U                         | A                     |
| Foshan Nanhai Gangsheng Tempered Glass Factory   | Foshan, Guangdong, China    | 4672          | COMP+CAN        | (IN)          | 125 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd.  | Foshan, Guangdong, China    | 5391          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                        | Burnaby, BC                 | 4420          | COMP+CAN        |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                     | Secaucus, NJ                | 2282          | COMPOSITE       |               | 100 U                         | A                     |
| Glas Works, Inc.                                 | Dania Beach, FL             | 5020          | COMPOSITE       |               | 285 U                         | A                     |
| Glass and Mirror Craft                           | Wixom, MI                   | 4201          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Design of Miami, Inc.                      | Miami, FL                   | 3454          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                             | Stoneville, NC              | 2729          | COMPOSITE       |               | 285 U                         | A                     |
| GlassFab Tempering Services Inc.                 | Tracy, CA                   | 4892          | COMPOSITE       |               | 125 U                         | A                     |
| Glaz-Tech Industries                             | Englewood, CO               | 5143          | COMPOSITE       |               | 250 U                         | A                     |
| Glenny Glass Co.                                 | Milford, OH                 | 3845          | COMPOSITE       |               | 200 U                         | A                     |

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|                                     |                               | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------|-------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Transparent Glass |                               |               |                 |               |                               |                       |
| 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 | Shantou, Guangdong, China     | 3943          | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Fabrication Inc.           | Webster, MA                   | 471           | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Industries Corp.           | Geneva, NY                    | 2519          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.           | Corsicana, TX                 | 1253          | COMPOSITE       |               | 175 U                         | A                     |
| Guardian Industries Corp.           | Galax, VA                     | 4609          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.           | DeWitt, IA                    | 2545          | COMPOSITE       |               | 500 U                         | A                     |
| Guardian Industries Corp.           | Richburg, SC                  | 1634          | COMPOSITE       |               | 285 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                     |
| Inkan Ltd                           | Brampton, ON                  | 5137          | COMP+CAN        |               | 100 U                         | A                     |
| Insulated Glass of America, Inc.    | Dallas, NC                    | 3863          | COMPOSITE       |               | 165 U                         | A                     |
| Insulite Glass Co., Inc.            | Olathe, KS                    | 3716          | COMPOSITE       |               | 150 U                         | A                     |
| Interglass Corp                     | Miami, FL                     | 5034          | COMPOSITE       |               | 285 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.      | Xiamen, Fujian, China         | 2576          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass      | Jiangmen, Guangdong, China    | 4307          | COMP+CAN        |               | 125 U                         | A                     |
| JM Glass                            | Hayward, CA                   | 4930          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                  | Foshan, Guangdong, China      | 3962          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                      | Union City, TN                | 2434          | COMPOSITE       |               | 165 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                     |
| Multiver                            | Vanier, QC                    | 5227          | COMPOSITE       |               | 400 U                         | A                     |
| Nashville Tempered Glass Corp.      | Nashville, TN                 | 2494          | COMP+CAN        |               | 285 U                         | A                     |
| Nashville Tempered Glass LLC        | Hendersonville, TN            | 2694          | COMP+CAN        |               | 285 U                         | A                     |
| New Angle Beveling                  | 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 U                         | U                     |
| Oldcastle BuildingEnvelope®         | Wright City, MO               | 3142          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Concord, ON                   | 3444          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Perrysburg, OH                | 3237          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Houston, TX                   | 3160          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Schofield, WI                 | 3172          | COMP+CAN        |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Albertville, MN               | 3108          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Fremont, CA                   | 3195          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Shawnee, OK                   | 3099          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Calgary, AB                   | 3268          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Langley, BC                   | 3291          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Tampa, FL                     | 3120          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Phoenix, AZ                   | 3132          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Los Angeles, CA               | 515           | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Covington, GA                 | 3333          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Rock Hill, SC                 | 3279          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Hauppauge, NY                 | 1549          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Moorestown, NJ                | 3184          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Warrenton, MO                 | 3148          | COMP+CAN        |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®         | Grand Prairie, TX             | 3255          | COMP+CAN        |               | 175 U                         | A                     |

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

|                                                                   |                                              | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------------------|----------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Transparent Glass                               |                                              |               |                 |               |                               |                       |
| Oldcastle BuildingEnvelope®                                       | Indianapolis, IN                             | 2213          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                                       | Miami, FL                                    | 3499          | COMP+CAN        |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                                       | Pointe-aux-Trembles, QC                      | 2544          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                                       | Vancouver, WA                                | 3224          | COMP+CAN        |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                                       | Denver, CO                                   | 3314          | COMP+CAN        |               | 175 U                         | A                     |
| Paragon Tempered Glass                                            | Antwerp, OH                                  | 2688          | COMPOSITE       |               | 500 U                         | A                     |
| PFG Glass                                                         | Langley, BC                                  | 3543          | COMP+CAN        |               | 750 U                         | A                     |
| PPG Inds., Inc.                                                   | Wichita Falls, TX                            | 3578          | COMPOSITE       |               | 175 U                         | A                     |
| Prelco Inc.                                                       | Saint-Jacques, NB                            | 4916          | COMP+CAN        |               | 800 U                         | A                     |
| Prelco Inc.                                                       | Riviere-du-loup, QC                          | 2381          | COMP+CAN        |               | 800 U                         | A                     |
| Productos De Valor Agregado en<br>Cristal S.A. de C.V.            | San Juan Ixhuatepec,<br>Tlalnepantla, Mexico | 4640          | COMPOSITE       |               | 175 U                         | A                     |
| Quality Glass & Mirror, Inc.                                      | Mount Prospect, IL                           | 2983          | COMPOSITE       |               | 500 U                         | A                     |
| Ready Glass & Mirror, Inc.                                        | Hialeah, FL                                  | 3747          | COMPOSITE       |               | 285 U                         | A                     |
| Reem Emirates Aluminum & Glass                                    | Abu Dhabi, United Arab Emirates              | 4677          | COMPOSITE       |               | 150 U                         | A                     |
| RF Supply, Inc.                                                   | Bradenton, FL                                | 4226          | COMPOSITE       |               | 285 U                         | A                     |
| SAAND London                                                      | London, ON Canada                            | 3981          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Ottawa                                                      | Stittsville, ON                              | 4953          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Rexdale                                                     | Rexdale, ON                                  | 4999          | COMP+CAN        |               | 400 U                         | A                     |
| SAAND Toronto                                                     | Toronto, ON Canada                           | 4357          | COMP+CAN        |               | 400 U                         | A                     |
| Shanghai Mingte Glass Technology<br>Co., Ltd.                     | Shanghai, China                              | 4934          | COMP+CAN        |               | 250 U                         | A                     |
| Shanghai SYP Engineering Glass                                    | Shanghai, China                              | 4071          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                                       | Westbrook, ME                                | 2965          | COMPOSITE       |               | 100 U                         | A                     |
| Solar Seal Company                                                | South Easton, MA                             | 1036          | COMPOSITE       |               | 100 U                         | A                     |
| Swift Glass Co., Inc.                                             | Elmira Heights, NY                           | 1558          | COMPOSITE       |               | 400 U                         | A                     |
| Syracuse Glass Co., Inc.                                          | Syracuse, NY                                 | 2958          | COMPOSITE       |               | 400 U                         | A                     |
| Tacoma Glass Mfg. Inc.                                            | Burlington, WA                               | 5166          | COMPOSITE       |               | 195 U                         | A                     |
| Tacoma Glass Mfg. Inc.                                            | Lakewood, WA                                 | 4731          | COMPOSITE       |               | 195 U                         | A                     |
| Taiwan Glass Industry Corp.                                       | Taipei, Taiwan, China                        | 3890          | COMPOSITE       |               | 750 U                         | A                     |
| Techni-Glass, Inc.                                                | Surgoinsville, TN                            | 3062          | COMP+CAN        |               | 285 U                         | A                     |
| Tecnoglass S.A.                                                   | Barranquilla, Colombia                       | 1995          | COMP+CAN        |               | 285 U                         | A                     |
| Tempco Glass                                                      | Flushing, NY                                 | 5012          | COMPOSITE       |               | 400 U                         | A                     |
| Texas Tempered, a Trulite Glass and<br>Aluminum Solutions Company | Houston, TX                                  | 4850          | COMPOSITE       |               | 175 U                         | A                     |
| The Original Frameless Shower Door                                | Coral Springs, FL                            | 4662          | COMPOSITE       |               | 285 U                         | A                     |
| Thermal Seal Insulating Glass                                     | Uxbridge, MA                                 | 4825          | COMPOSITE       |               | 285 U                         | A                     |
| Thompson I.G. LLC.                                                | Fenton, MI                                   | 5298          | COMP+CAN        |               | 400 U                         | A                     |
| Tianjin CSG Energy Conservation<br>Glass Co., Ltd                 | Tianjin, China                               | 4025          | COMPOSITE       |               | 100 U                         | A                     |
| Tianjin SYP Engineering Glass                                     | Tianjin, China                               | 4078          | COMP+CAN        |               | 125 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                     |
| Trulite Glass and Aluminum Solutions                              | Fall River, MA                               | 1521          | COMP+CAN        |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Hebron, OH                                   | 2199          | COMP+CAN        |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | San Antonio, TX                              | 3327          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Knoxville, TN                                | 4158          | COMP+CAN        |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Richmond, VA                                 | 5307          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | New Berlin, WI                               | 5321          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Lithia Springs, GA                           | 4986          | COMP+CAN        |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Houston, TX                                  | 3927          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                              | Atlanta, GA                                  | 865           | 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> |
|-------------------------------------------------------|------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Transparent Glass                   |                                    |               |                 |               |                               |                       |
| Trulite Glass and Aluminum Solutions                  | Las Vegas, NV                      | 4214          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Aurora, CO                         | 5344          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Pittsburgh, PA                     | 1787          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Grenada, MS                        | 2840          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | City of Industry, CA               | 4186          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Indianapolis, IN                   | 4754          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                  | Orlando, FL                        | 5186          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East           | Salt Lake City, UT                 | 4268          | 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       |               | 165 U                         | A                     |
| Unitex Glass Chengdu Co., Ltd                         | Chendu, Sichuan, China             | 5414          | ANSI ONLY       |               | 200 U                         | A                     |
| Upstate Glass Tempering Inc.                          | Middletown, NY                     | 4927          | COMPOSITE       |               | 400 U                         | A                     |
| Vidrio Bisel S.A. de C.V.                             | Santa Catarina, Nuevo Leon, Mexico | 4967          | COMPOSITE       |               | 175 U                         | A                     |
| Vidrios El Castillo SC de RL de CV                    | Escobedo, Nuevo Leon, Mexico       | 3986          | COMPOSITE       |               | 175 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                     |
| Vitemex                                               | Reynosa, Tamaulipas                | 5394          | COMPOSITE       |               | 175 U                         | A                     |
| Vitra Vidrios Transformados SA de CV                  | Cortes, Honduras                   | 4654          | COMPOSITE       |               | 285 U                         | A                     |
| W. A. Wilson Inc.                                     | Wheeling, WV                       | 4172          | COMPOSITE       |               | 200 U                         | A                     |
| Wholesale Glass Dist.                                 | Memphis, TN                        | 4381          | COMPOSITE       |               | 150 U                         | A                     |
| WSD Glass, Inc.                                       | Winston-Salem, NC                  | 4052          | COMPOSITE       |               | 165 U                         | A                     |
| Wuhan Aozheng Science and Technology Co., Ltd.        | Wuhan, Hubei, China                | 5241          | COMPOSITE       |               | 195 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.               | Wujiang City,                      | 5253          | COMPOSITE       |               | 125 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                         | Dongguan, Guangdong, China         | 3054          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                      | Foshan, Guangdong, China           | 3740          | COMP+CAN        |               | 285 U                         | A                     |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd | Hangzhou, Zhejiang, China          | 5080          | COMPOSITE       |               | 125 U                         | A                     |
| 1/2 Inch Tempered Transparent Glass                   |                                    |               |                 |               |                               |                       |
| A Plus Glass Services                                 | Medley, FL                         | 4773          | COMPOSITE       |               | 285 U                         | A                     |
| AGNORA (Architectural Glass North America)            | Collingwood, ON Canada             | 4884          | COMP+CAN        |               | 100 U                         | A                     |
| Al Abbar Architectural Glass                          | Dubai, United Arab Emirates        | 4590          | COMPOSITE       |               | 100 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.               | Charleston, SC                     | 4336          | COMPOSITE       |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.              | Miramar, FL                        | 4719          | COMPOSITE       |               | 285 U                         | A                     |
| All Team Glass & Mirror, Ltd.                         | Woodbridge, ON Canada              | 1758          | COMPOSITE       |               | 100 U                         | A                     |
| Aluminum Technology Auxiliary Industries              | Doha, Qatar                        | 5212          | COMPOSITE       |               | 125 U                         | A                     |
| Alyusuf Thermo Glass W.L.L.                           | Manama, Bahrain                    | 4498          | COMPOSITE       |               | 285 U                         | A                     |
| American Insulated Glass Inc.                         | Conley, GA                         | 5287          | COMPOSITE       |               | 165 U                         | A                     |
| American Shower Door                                  | Los Angeles, CA                    | 3041          | COMPOSITE       |               | 250 U                         | A                     |
| AVIC Sanxin Co. Ltd.                                  | Shenzhen, Guangdong, China         | 3570          | COMPOSITE       |               | 285 U                         | A                     |
| Basco Engineered Products                             | Hamilton, OH                       | 3812          | COMPOSITE       |               | 200 U                         | A                     |
| Berkowitz, J.E.                                       | Pedricktown, NJ                    | 1991          | COMP+CAN        |               | 100 U                         | A                     |
| Blue Star Glass Inc.                                  | North Brunswick, NJ                | 4521          | COMPOSITE       |               | 100 U                         | A                     |
| Cameron Glass, Inc.                                   | Broken Arrow, OK                   | 2033          | COMP+CAN        |               | 500 U                         | A                     |
| Cardinal LG                                           | Amery, WI                          | 4844          | COMP+CAN        |               | 150 U                         | A                     |
| Cardinal Tempering                                    | Louisville, KY                     | 3875          | COMPOSITE       |               | 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> |
|-------------------------------------------------|----------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| 1/2 Inch Tempered Transparent Glass             |                            |               |                 |               |                               |                       |
| Chicago Tempered Glass, Inc.                    | Chicago, IL                | 3090          | COMPOSITE       |               | 200 U                         | A                     |
| Classy Glass Specialties Co., Ltd               | Dongguan, Guangdong        | 5162          | COMPOSITE       |               | 200 U                         | A                     |
| ClearEdge Glass                                 | Baton Rouge, LA            | 5314          | COMPOSITE       |               | 900 U                         | A                     |
| Columbia Commercial Bldg Prod.                  | Rockwall, TX               | 5023          | COMP+CAN        |               | 175 U                         | A                     |
| Consolidated Glass Corp.                        | New Castle, PA             | 2004          | COMPOSITE       |               | 285 U                         | A                     |
| Contract Glass                                  | Wilmington, MA             | 4975          | COMPOSITE       |               | 100 U                         | A                     |
| Contractors Wardrobe                            | Valencia, CA               | 3470          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division                 | Tuscaloosa, AL             | 2145          | COMPOSITE       |               | 165 U                         | A                     |
| 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, Guangdong, China | 4126          | COMP+CAN        |               | 285 U                         | A                     |
| Downey Glass Industries, LLC                    | Pompano Beach, FL          | 2664          | COMPOSITE       |               | 285 U                         | A                     |
| EFI                                             | Kernersville, NC           | 5211          | COMP+CAN        |               | 165 U                         | A                     |
| Flat Glass Distributors                         | Jacksonville, FL           | 3826          | COMPOSITE       |               | 285 U                         | A                     |
| Foshan NanHai ZhongKang YiMeiJia Glass Co. Ltd. | Foshan, Guangdong, China   | 5392          | COMPOSITE       |               | 285 U                         | A                     |
| Garibaldi Glass Ind. Inc.                       | Burnaby, BC                | 4421          | COMP+CAN        |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.                    | Secaucus, NJ               | 2228          | COMPOSITE       |               | 100 U                         | A                     |
| Glas Works, Inc.                                | Dania Beach, FL            | 5021          | COMPOSITE       |               | 285 U                         | A                     |
| Glass and Mirror Craft                          | Wixom, MI                  | 4202          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Design of Miami, Inc.                     | Miami, FL                  | 3607          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                            | Stoneville, NC             | 2733          | COMPOSITE       |               | 285 U                         | A                     |
| GlassFab Tempering Services Inc.                | Tracy, CA                  | 4890          | COMPOSITE       |               | 125 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             | Shantou, Guangdong, China  | 3944          | COMPOSITE       |               | 125 U                         | A                     |
| Guardian Fabrication Inc.                       | Webster, MA                | 1235          | COMPOSITE       |               | 100 U                         | A                     |
| Guardian Industries Corp.                       | Corsicana, TX              | 1803          | COMPOSITE       |               | 175 U                         | A                     |
| Guardian Industries Corp.                       | Geneva, NY                 | 3673          | COMPOSITE       |               | 400 U                         | A                     |
| Guardian Industries Corp.                       | Galax, VA                  | 4610          | COMP+CAN        |               | 285 U                         | A                     |
| Guardian Industries Corp.                       | DeWitt, IA                 | 2649          | COMPOSITE       |               | 500 U                         | A                     |
| Industrial Tempering Glass                      | Brooklyn, NY               | 3419          | COMPOSITE       |               | 100 U                         | A                     |
| Inkan Ltd                                       | Brampton, ON               | 5138          | COMP+CAN        |               | 100 U                         | A                     |
| Insulated Glass of America, Inc.                | Dallas, NC                 | 3864          | COMPOSITE       |               | 165 U                         | A                     |
| Insulite Glass Co., Inc.                        | Olathe, KS                 | 3717          | COMPOSITE       |               | 150 U                         | A                     |
| Interglass Corp                                 | Miami, FL                  | 5035          | COMPOSITE       |               | 285 U                         | A                     |
| Intex Glass (Xiamen) Co., Ltd.                  | Xiamen, Fujian, China      | 2577          | COMP+CAN        |               | 200 U                         | A                     |
| Jiangmen SYP Engineering Glass                  | Jiangmen, Guangdong, China | 4308          | COMP+CAN        |               | 125 U                         | A                     |
| JM Glass                                        | Hayward, CA                | 4931          | COMPOSITE       |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                              | Foshan, Guangdong, China   | 3963          | COMPOSITE       |               | 125 U                         | A                     |
| Kohler Company                                  | Union City, TN             | 4012          | COMPOSITE       |               | 165 U                         | A                     |
| M/M Tempering Inc.                              | Loganville, GA             | 4282          | COMPOSITE       |               | 165 U                         | A                     |
| Maryland Glass & Mirror                         | Baltimore, MD              | 4322          | COMPOSITE       |               | 100 U                         | A                     |
| McGrory Glass                                   | Paulsboro, NJ              | 4815          | COMPOSITE       |               | 100 U                         | A                     |
| Mega Tempering                                  | Brooklyn, NY               | 4301          | COMPOSITE       |               | 100 U                         | A                     |

***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>                |                                          |               |                 |               |                               |                       |
| Mercer Glass Fab LLC                                      | Trenton, NJ                              | 4256          | COMPOSITE       | 100 U         | A                             |                       |
| Multiver                                                  | Vanier, QC                               | 5228          | COMPOSITE       | 400 U         | A                             |                       |
| Nashville Tempered Glass LLC                              | Hendersonville, TN                       | 4148          | COMP+CAN        | 285 U         | A                             |                       |
| New Angle Beveling                                        | Hyde, PA                                 | 4592          | COMPOSITE       | 100 U         | A                             |                       |
| NY Tempering LLC                                          | Maspeth, NY                              | 4903          | COMPOSITE       | 800 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Miami, FL                                | 3500          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Rock Hill, SC                            | 3280          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Pointe-aux-Trembles, QC                  | 2062          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Fremont, CA                              | 3196          | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Tampa, FL                                | 3121          | COMP+CAN        | 285 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Calgary, AB                              | 3269          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Concord, ON                              | 3445          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Grand Prairie, TX                        | 3256          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Wright City, MO                          | 3143          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Indianapolis, IN                         | 2214          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Perrysburg, OH                           | 3238          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Covington, GA                            | 3334          | COMP+CAN        | 165 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Albertville, MN                          | 3109          | COMP+CAN        | 150 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Moorestown, NJ                           | 3185          | COMP+CAN        | 100 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Schofield, WI                            | 3173          | COMP+CAN        | 600 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Houston, TX                              | 3161          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Denver, CO                               | 3315          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Hauppauge, NY                            | 1550          | COMP+CAN        | 400 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Shawnee, OK                              | 3100          | COMP+CAN        | 175 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Vancouver, WA                            | 3225          | COMP+CAN        | 195 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Los Angeles, CA                          | 516           | COMP+CAN        | 125 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Warrenton, MO                            | 3149          | COMP+CAN        | 500 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Langley, BC                              | 3292          | COMP+CAN        | 750 U         | A                             |                       |
| Oldcastle BuildingEnvelope®                               | Phoenix, AZ                              | 3133          | COMP+CAN        | 125 U         | A                             |                       |
| PFG Glass                                                 | Langley, BC                              | 3544          | COMP+CAN        | 750 U         | A                             |                       |
| Prelco Inc.                                               | Saint-Jacques, NB                        | 4917          | COMP+CAN        | 800 U         | A                             |                       |
| Prelco Inc.                                               | Riviere-du-loup, QC                      | 2048          | COMP+CAN        | 800 U         | A                             |                       |
| Productos De Valor Agregado en Cristal S.A. de C.V.       | San Juan Ixhuatpec, Tlalnepantla, Mexico | 4641          | COMPOSITE       | 175 U         | A                             |                       |
| Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd | Qinhuangdao, Hebei, China                | 5129          | COMP+CAN        | 150 U         |                               |                       |
| Quality Glass & Mirror, Inc.                              | Mount Prospect, IL                       | 2984          | COMPOSITE       | 500 U         | A                             |                       |
| Ready Glass & Mirror, Inc.                                | Hialeah, FL                              | 3748          | COMPOSITE       | 285 U         | A                             |                       |
| RF Supply, Inc.                                           | Bradenton, FL                            | 4227          | COMPOSITE       | 285 U         | A                             |                       |
| SAAND Ottawa                                              | Stittsville, ON                          | 4954          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Rexdale                                             | Rexdale, ON                              | 5000          | COMP+CAN        | 400 U         | A                             |                       |
| SAAND Toronto                                             | Toronto, ON Canada                       | 4358          | COMP+CAN        | 400 U         | A                             |                       |
| Shanghai Mingte Glass Technology Co., Ltd.                | Shanghai, China                          | 4935          | COMP+CAN        | 250 U         | A                             |                       |
| Shanghai SYP Engineering Glass                            | Shanghai, China                          | 4072          | COMPOSITE       | 125 U         | A                             |                       |
| SIGCO, Inc.                                               | Westbrook, ME                            | 2966          | COMPOSITE       | 100 U         | A                             |                       |
| Solar Seal Company                                        | South Easton, MA                         | 1037          | COMPOSITE       | 100 U         | A                             |                       |
| Swift Glass Co., Inc.                                     | Elmira Heights, NY                       | 1559          | COMPOSITE       | 400 U         | A                             |                       |
| Syracuse Glass Co., Inc.                                  | Syracuse, NY                             | 2657          | COMPOSITE       | 400 U         | A                             |                       |
| Tacoma Glass Mfg. Inc.                                    | Lakewood, WA                             | 4732          | COMPOSITE       | 195 U         | A                             |                       |
| Tacoma Glass Mfg. Inc.                                    | Burlington, WA                           | 5167          | COMPOSITE       | 195 U         | A                             |                       |
| Taiwan Glass Industry Corp.                               | Taipei, Taiwan, China                    | 3891          | COMPOSITE       | 750 U         | A                             |                       |
| Techni-Glass, Inc.                                        | Surgoinsville, TN                        | 4509          | COMP+CAN        | 285 U         | A                             |                       |

**Certified Products-By Product Type**

|                                                                                                 |                              | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------------------------------------------------------------|------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <i>1/2 Inch Tempered Transparent Glass</i>                                                      |                              |               |                 |               |                               |                       |
| Tecnoglass S.A.                                                                                 | Barranquilla, Colombia       | 2135          | COMP+CAN        |               | 285 U                         | A                     |
| Tempco Glass                                                                                    | Flushing, NY                 | 5013          | COMPOSITE       |               | 400 U                         | A                     |
| Texas Tempered, a Trulite Glass and Aluminum Solutions Company                                  | Houston, TX                  | 4851          | COMPOSITE       |               | 175 U                         | A                     |
| The Original Frameless Shower Door                                                              | Coral Springs, FL            | 4663          | COMPOSITE       |               | 285 U                         | A                     |
| Thermal Seal Insulating Glass                                                                   | Uxbridge, MA                 | 4826          | COMPOSITE       |               | 285 U                         | A                     |
| Thompson I.G. LLC.                                                                              | Fenton, MI                   | 5299          | COMP+CAN        |               | 400 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd                                                  | Tianjin, China               | 4026          | COMPOSITE       |               | 100 U                         | A                     |
| Tianjin Northglass Industrial Technical Co., Ltd                                                | Tianjin, China               | 5221          | COMPOSITE       |               | 175 U                         | A                     |
| Tri-Star Glass                                                                                  | 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 and Aluminum Solutions                                                            | San Antonio, TX              | 4277          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Fall River, MA               | 1522          | COMP+CAN        |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Pittsburgh, PA               | 1788          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Hebron, OH                   | 2200          | COMP+CAN        |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Aurora, CO                   | 5345          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Las Vegas, NV                | 4215          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Richmond, VA                 | 1959          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Grenada, MS                  | 4601          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Houston, TX                  | 3928          | COMPOSITE       |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Indianapolis, IN             | 4753          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Atlanta, GA                  | 866           | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | New Berlin, WI               | 5322          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Orlando, FL                  | 5187          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Columbus, OH                 | 4748          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Lithia Springs, GA           | 4987          | COMP+CAN        |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | City of Industry, CA         | 4187          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                            | Knoxville, TN                | 4159          | COMP+CAN        |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East                                                     | Salt Lake City, UT           | 4269          | COMPOSITE       |               | 250 U                         | A                     |
| United Plate Glass Co., Inc.                                                                    | Butler, PA                   | 2471          | COMPOSITE       |               | 100 U                         | A                     |
| United Plate Glass Company of Charlotte                                                         | Lincolnton, NC               | 3952          | COMPOSITE       |               | 165 U                         | A                     |
| Upstate Glass Tempering Inc.                                                                    | Middletown, NY               | 5158          | COMPOSITE       |               | 400 U                         | A                     |
| Vidrios El Castillo SC de RL de CV                                                              | Escobedo, Nuevo Leon, Mexico | 3987          | COMPOSITE       |               | 175 U                         | A                     |
| Viracon Inc.                                                                                    | Owatonna, MN                 | 1509          | COMP+CAN        |               | 150 U                         | A                     |
| Virginia Glass Products Corp.                                                                   | Martinsville, VA             | 94            | COMPOSITE       |               | 100 U                         | A                     |
| Vitemex                                                                                         | Reynosa, Tamaulipas          | 5395          | COMPOSITE       |               | 175 U                         | A                     |
| Vitra Vidrios Transformados SA de CV                                                            | Cortes, Honduras             | 4655          | COMPOSITE       |               | 285 U                         | A                     |
| W. A. Wilson Inc.                                                                               | Wheeling, WV                 | 4173          | COMPOSITE       |               | 200 U                         | A                     |
| Wholesale Glass Dist.                                                                           | Memphis, TN                  | 4382          | COMPOSITE       |               | 150 U                         | A                     |
| WSD Glass, Inc.                                                                                 | Winston-Salem, NC            | 4050          | COMPOSITE       |               | 165 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.                                                         | Wujiang City,                | 5254          | COMPOSITE       |               | 125 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                                                                   | Dongguan, Guangdong, China   | 3055          | COMP+CAN        |               | 125 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                                | Foshan, Guangdong, China     | 3741          | COMP+CAN        |               | 285 U                         | A                     |
| Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd                                           | Hangzhou, Zhejiang, China    | 5081          | COMPOSITE       |               | 125 U                         | A                     |
| <i>12 mm Tempered Transparent Glass (Conforms to thickness tolerance other than ASTM C1036)</i> |                              |               |                 |               |                               |                       |
| Dongguan CSG Architectural Glass Co., Ltd.                                                      | Dongguan, Guangdong, China   | 3937          | COMP+CAN        | (3)           | 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> |
|-----------------------------------------------------------|-------------------------------|----------------------------------------------------------------|-----------------|-----|---------------|-------------------------------|-----------------------|
| <b>12 mm Tempered Transparent Glass</b>                   |                               | <i>(Conforms to thickness tolerance other than ASTM C1036)</i> |                 |     |               |                               |                       |
| Eckelt Glas GmbH                                          | Steyr, Austria                | 2853                                                           | COMPOSITE       | (3) |               | 100 U                         | A                     |
| Gulf Glass Industries, LLC                                | Sharjah, United Arab Emirates | 4798                                                           | COMPOSITE       | (7) |               | 100 U                         | A                     |
| Tianjin SYP Engineering Glass                             | Tianjin, China                | 4079                                                           | COMP+CAN        | (3) |               | 125 U                         | A                     |
| <b>1/2 Inch Tempered Transparent Glass</b>                |                               |                                                                |                 |     |               |                               |                       |
| Anthony International                                     | Madison, GA                   | 5018                                                           | COMPOSITE       |     |               | 165 U                         | A                     |
| <b>5/8 Inch Tempered Transparent Glass</b>                |                               |                                                                |                 |     |               |                               |                       |
| SAAND Rexdale                                             | Rexdale, ON                   | 5008                                                           | COMP+CAN        | (3) |               | 400 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.                   | Wujiang City,                 | 5255                                                           | COMPOSITE       |     |               | 125 U                         | A                     |
| <b>15 mm Tempered Transparent Glass</b>                   |                               | <i>(Conforms to thickness tolerance other than ASTM C1036)</i> |                 |     |               |                               |                       |
| Al Abbar Architectural Glass                              | Dubai, United Arab Emirates   | 3976                                                           | COMPOSITE       | (4) |               | 100 U                         | A                     |
| AVIC Sanxin Co. Ltd.                                      | Shenzhen, Guangdong, China    | 3571                                                           | COMPOSITE       | (3) |               | 285 U                         | A                     |
| Classy Glass Specialties Co., Ltd                         | Dongguan, Guangdong           | 5163                                                           | COMPOSITE       | (4) |               | 200 U                         | A                     |
| Diamond Sea Glaze                                         | Langley, BC Canada            | 4505                                                           | COMPOSITE       | (3) |               | 750 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd.                | Dongguan, Guangdong, China    | 3938                                                           | COMP+CAN        | (3) |               | 125 U                         | A                     |
| Eckelt Glas GmbH                                          | Steyr, Austria                | 2854                                                           | COMPOSITE       | (3) |               | 100 U                         | A                     |
| Garibaldi Glass Ind. Inc.                                 | Burnaby, BC                   | 5125                                                           | COMP+CAN        | (3) |               | 750 U                         | A                     |
| Guangdong Golden Glass Technologies                       | Shantou, Guangdong, China     | 3945                                                           | COMPOSITE       | (3) |               | 125 U                         | A                     |
| Jiangmen SYP Engineering Glass                            | Jiangmen, Guangdong, China    | 4309                                                           | COMP+CAN        | (3) |               | 125 U                         | A                     |
| Shanghai SYP Engineering Glass                            | Shanghai, China               | 4073                                                           | COMPOSITE       | (3) |               | 125 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd            | Tianjin, China                | 4027                                                           | COMPOSITE       | (3) |               | 100 U                         | A                     |
| Tianjin SYP Engineering Glass                             | Tianjin, China                | 4080                                                           | COMP+CAN        | (3) |               | 125 U                         | A                     |
| Xinyi Group (Glass) Co., Ltd.                             | Dongguan, Guangdong, China    | 4179                                                           | COMP+CAN        | (3) |               | 125 U                         | A                     |
| <b>5/8 Inch Tempered Transparent Glass</b>                |                               |                                                                |                 |     |               |                               |                       |
| All Team Glass & Mirror, Ltd.                             | Woodbridge, ON Canada         | 4355                                                           | COMPOSITE       |     |               | 100 U                         | A                     |
| Blue Star Glass Inc.                                      | North Brunswick, NJ           | 5174                                                           | COMPOSITE       |     |               | 100 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 and Mirror Craft                                    | Wixom, MI                     | 4203                                                           | COMP+CAN        |     |               | 150 U                         | A                     |
| Glass Dynamics, Inc.                                      | Stoneville, NC                | 2731                                                           | COMPOSITE       |     |               | 285 U                         | A                     |
| Inkan Ltd                                                 | Brampton, ON                  | 5139                                                           | COMP+CAN        |     |               | 100 U                         | A                     |
| McGrory Glass                                             | Paulsboro, NJ                 | 4816                                                           | COMPOSITE       |     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Albertville, MN               | 3110                                                           | COMP+CAN        |     |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Moorestown, NJ                | 4054                                                           | COMP+CAN        |     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Hauppauge, NY                 | 4181                                                           | COMP+CAN        |     |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Los Angeles, CA               | 4387                                                           | COMP+CAN        |     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Langley, BC                   | 3293                                                           | COMP+CAN        |     |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Calgary, AB                   | 3270                                                           | COMP+CAN        |     |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Pointe-aux-Trembles, QC       | 2063                                                           | COMP+CAN        |     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Fremont, CA                   | 4458                                                           | COMP+CAN        |     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Perrysburg, OH                | 3239                                                           | COMP+CAN        |     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                               | Concord, ON                   | 3446                                                           | COMP+CAN        |     |               | 100 U                         | A                     |
| Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd | Qinhuangdao, Hebei, China     | 5130                                                           | COMP+CAN        |     |               | 150 U                         |                       |
| SIGCO, Inc.                                               | Westbrook, ME                 | 4326                                                           | COMPOSITE       |     |               | 100 U                         | A                     |
| Techni-Glass, Inc.                                        | Surgoinsville, TN             | 4510                                                           | COMP+CAN        |     |               | 285 U                         | A                     |
| Tecnoglass S.A.                                           | Barranquilla, Colombia        | 2365                                                           | COMP+CAN        |     |               | 285 U                         | A                     |
| Triview Glass Industries                                  | City of Industry, CA          | 5045                                                           | COMP+CAN        |     |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                      | Atlanta, GA                   | 4089                                                           | 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>5/8 Inch Tempered Transparent Glass</i> |                             |               |                 |               |                               |                       |
| Trulite Glass and Aluminum Solutions       | New Berlin, WI              | 5323          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions       | City of Industry, CA        | 4522          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions       | Pittsburgh, PA              | 4134          | COMPOSITE       |               | 100 U                         | A                     |
| Virginia Glass Products Corp.              | Martinsville, VA            | 2182          | COMPOSITE       |               | 100 U                         | A                     |
| <i>3/4 Inch Tempered Transparent Glass</i> |                             |               |                 |               |                               |                       |
| Al Abbar Architectural Glass               | Dubai, United Arab Emirates | 3977          | COMPOSITE       |               | 100 U                         | A                     |
| Aldora Aluminum and Glass Products, Inc.   | Miramar, FL                 | 4810          | COMPOSITE       |               | 285 U                         | A                     |
| All Team Glass & Mirror, Ltd.              | Woodbridge, ON Canada       | 3656          | COMPOSITE       |               | 100 U                         | A                     |
| AVIC Sanxin Co. Ltd.                       | Shenzhen, Guangdong, China  | 3572          | COMPOSITE       |               | 285 U                         | A                     |
| Basco Engineered Products                  | Hamilton, OH                | 5076          | COMPOSITE       |               | 200 U                         | A                     |
| Berkowitz, J.E.                            | Pedricktown, NJ             | 2647          | COMP+CAN        |               | 100 U                         | A                     |
| Blue Star Glass Inc.                       | North Brunswick, NJ         | 5175          | COMPOSITE       |               | 100 U                         | A                     |
| Classy Glass Specialties Co., Ltd          | Dongguan, Guangdong         | 5164          | COMPOSITE       |               | 200 U                         | A                     |
| Contractors Wardrobe                       | Valencia, CA                | 3472          | COMP+CAN        |               | 250 U                         | A                     |
| Coral Industries Glass Division            | Tuscaloosa, AL              | 2644          | COMPOSITE       |               | 165 U                         | A                     |
| Diamond Sea Glaze                          | Langley, BC Canada          | 4506          | COMPOSITE       |               | 750 U                         | A                     |
| Dillmeier Enterprise, Inc.                 | Van Buren, AR               | 3917          | COMPOSITE       |               | 900 U                         | A                     |
| Dlubak Corporation                         | Blairsville, PA             | 3019          | COMPOSITE       |               | 100 U                         | A                     |
| Dongguan CSG Architectural Glass Co., Ltd. | Dongguan, Guangdong, China  | 3939          | COMP+CAN        |               | 125 U                         | A                     |
| Downey Glass Industries, LLC               | Pompano Beach, FL           | 2665          | COMPOSITE       |               | 285 U                         | A                     |
| Eckelt Glas GmbH                           | Steyr, Austria              | 2855          | COMPOSITE       |               | 100 U                         | A                     |
| Garibaldi Glass Ind. Inc.                  | Burnaby, BC                 | 4422          | COMP+CAN        |               | 750 U                         | A                     |
| GGI Glass Distributors Corp.               | Secaucus, NJ                | 3858          | COMPOSITE       |               | 100 U                         | A                     |
| Glass and Mirror Craft                     | Wixom, MI                   | 4204          | COMP+CAN        |               | 150 U                         | A                     |
| Glass Design of Miami, Inc.                | Miami, FL                   | 5237          | COMPOSITE       |               | 285 U                         | A                     |
| Glass Dynamics, Inc.                       | Stoneville, NC              | 2734          | COMPOSITE       |               | 285 U                         | A                     |
| GlassFab Tempering Services Inc.           | Tracy, CA                   | 4893          | COMPOSITE       |               | 125 U                         | A                     |
| Glaz-Tech Industries                       | Englewood, CO               | 2190          | COMPOSITE       |               | 250 U                         | A                     |
| Guangdong Golden Glass Technologies        | Shantou, Guangdong, 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                     |
| Inkan Ltd                                  | Brampton, ON                | 5140          | COMP+CAN        |               | 100 U                         | A                     |
| Interglass Corp                            | Miami, FL                   | 5036          | COMPOSITE       |               | 285 U                         | A                     |
| Jiangmen SYP Engineering Glass             | Jiangmen, Guangdong, China  | 4310          | COMP+CAN        |               | 125 U                         | A                     |
| McGrory Glass                              | Paulsboro, NJ               | 4817          | COMPOSITE       |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Fremont, CA                 | 3197          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Albertville, MN             | 3111          | COMP+CAN        |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Hauppauge, NY               | 1551          | COMP+CAN        |               | 400 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Grand Prairie, TX           | 3257          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Los Angeles, CA             | 2074          | COMP+CAN        |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Covington, GA               | 3335          | COMP+CAN        |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Denver, CO                  | 4245          | COMP+CAN        |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Calgary, AB                 | 3271          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Perrysburg, OH              | 3240          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Langley, BC                 | 3294          | COMP+CAN        |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Concord, ON                 | 3447          | COMP+CAN        |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                | Pointe-aux-Trembles, QC     | 2885          | COMP+CAN        |               | 100 U                         | A                     |
| Prelco Inc.                                | Riviere-du-loup, QC         | 4904          | COMP+CAN        |               | 800 U                         | A                     |

**Certified Products-By Product Type**

|                                                                |                                           | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------------------|-------------------------------------------|---------------|-----------------|---------------|-------------------------------|-----------------------|
| <b>3/4 Inch Tempered Transparent Glass</b>                     |                                           |               |                 |               |                               |                       |
| Productos De Valor Agregado en Cristal S.A. de C.V.            | San Juan Ixhuatepec, Tlalnepantla, Mexico | 4642          | COMPOSITE       |               | 175 U                         | A                     |
| Quality Glass & Mirror, Inc.                                   | Mount Prospect, IL                        | 3805          | COMPOSITE       |               | 500 U                         | A                     |
| SAAND Rexdale                                                  | Rexdale, ON                               | 5007          | COMP+CAN        |               | 400 U                         | A                     |
| Shanghai SYP Engineering Glass                                 | Shanghai, China                           | 4074          | COMPOSITE       |               | 125 U                         | A                     |
| SIGCO, Inc.                                                    | Westbrook, ME                             | 4327          | COMPOSITE       |               | 100 U                         | A                     |
| Tacoma Glass Mfg. Inc.                                         | Burlington, WA                            | 5168          | COMPOSITE       |               | 195 U                         | A                     |
| Tecnoglass S.A.                                                | Barranquilla, Colombia                    | 2894          | COMP+CAN        |               | 285 U                         | A                     |
| Texas Tempered, a Trulite Glass and Aluminum Solutions Company | Houston, TX                               | 5365          | COMPOSITE       |               | 175 U                         | A                     |
| Tianjin CSG Energy Conservation Glass Co., Ltd                 | Tianjin, China                            | 4028          | COMPOSITE       |               | 100 U                         | A                     |
| Tianjin SYP Engineering Glass                                  | Tianjin, China                            | 4081          | COMP+CAN        |               | 125 U                         | A                     |
| Triview Glass Industries                                       | City of Industry, CA                      | 5046          | COMP+CAN        |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Las Vegas, NV                             | 4216          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | City of Industry, CA                      | 4371          | COMPOSITE       |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Orlando, FL                               | 5188          | COMPOSITE       |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Atlanta, GA                               | 2960          | COMPOSITE       |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | New Berlin, WI                            | 5324          | COMPOSITE       |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Pittsburgh, PA                            | 4135          | COMPOSITE       |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                           | Aurora, CO                                | 5346          | COMPOSITE       |               | 175 U                         | A                     |
| Vidrios El Castillo SC de RL de CV                             | Escobedo, Nuevo Leon, Mexico              | 3988          | COMPOSITE       |               | 175 U                         | A                     |
| Virginia Glass Products Corp.                                  | Martinsville, VA                          | 95            | COMPOSITE       |               | 100 U                         | A                     |
| Wujiang Golden Glass Technologies, Ltd.                        | Wujiang City,                             | 5256          | COMPOSITE       |               | 125 U                         | A                     |
| <b>7/8 Inch Tempered Transparent Glass</b>                     |                                           |               |                 |               |                               |                       |
| Guangdong Golden Glass Technologies                            | Shantou, Guangdong, China                 | 4535          | COMPOSITE       |               | 125 U                         | A                     |
| <b>1 Inch Tempered Transparent Glass</b>                       |                                           |               |                 |               |                               |                       |
| GGI Glass Distributors Corp.                                   | Secaucus, NJ                              | 4774          | COMPOSITE       | (IN)          | 100 U                         | A                     |
| <b>Tempered Patterned Glass</b>                                |                                           |               |                 |               |                               |                       |
| <b>1/8 Inch Tempered Patterned Glass</b>                       |                                           |               |                 |               |                               |                       |
| AGC Flat Glass North America                                   | Quakertown, PA                            | 2510          | COMPOSITE       | (m)           | 100 U                         | A                     |
| AGC Flat Glass North America                                   | Greenland, TN                             | 587           | COMP+CAN        | (s)           | 285 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.                        | Charleston, SC                            | 4332          | COMPOSITE       | (s)           | 285 U                         | A                     |
| American Insulated Glass Inc.                                  | Conley, GA                                | 5288          | COMPOSITE       | (m)           | 165 U                         | A                     |
| Amsco Windows                                                  | Salt Lake City, UT                        | 2582          | COMPOSITE       | (m)           | 750 U                         | A                     |
| Cardinal CG                                                    | Galt, CA                                  | 3599          | COMPOSITE       | (s)           | 125 U                         | A                     |
| Cardinal CG                                                    | Spring Green, WI                          | 2071          | COMP+CAN        | (s)           | 600 U                         | A                     |
| Cardinal CG                                                    | Tumwater, WA                              | 2954          | COMP+CAN        | (s)           | 195 U                         | A                     |
| Cardinal CG                                                    | Buford, GA                                | 2146          | COMP+CAN        | (s)           | 165 U                         | A                     |
| Cardinal CG                                                    | Loveland, CO                              | 4343          | COMPOSITE       | (s)           | 900 U                         | A                     |
| Cardinal CG                                                    | Casa Grande, AZ                           | 4103          | COMP+CAN        | (s)           | 250 U                         | A                     |
| Cardinal CG                                                    | Northfield, MN                            | 2011          | COMP+CAN        | (s)           | 150 U                         | A                     |
| Cardinal CT                                                    | Utica, OH                                 | 4623          | COMPOSITE       | (s)           | 100 U                         | A                     |
| Cardinal CT                                                    | Mount Airy, NC                            | 4581          | COMPOSITE       | (s)           | 165 U                         | A                     |
| Cardinal CT                                                    | Adel, GA                                  | 5098          | COMPOSITE       | (d)           | 165 U                         | A                     |
| Cardinal CT                                                    | Easton, PA                                | 4759          | COMPOSITE       | (s)           | 100 U                         | A                     |
| Cardinal CT - S                                                | Irving TX                                 | 5105          | COMPOSITE       | (s)           | 175 U                         | A                     |
| Cardinal CT - W                                                | Irving TX                                 | 5249          | COMPOSITE       | (s)           | 175 U                         | A                     |
| Cardinal IG                                                    | Los Angeles, CA                           | 5088          | 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>  |                        |               |                 |               |                               |                       |
| Cardinal IG                               | Fremont, IN            | 2203          | COMP+CAN (s)    |               | 150 U                         | A                     |
| Cardinal IG                               | Greenfield, IA         | 1841          | COMP+CAN (s)    |               | 500 U                         | A                     |
| Cardinal IG                               | Waxahachie, TX         | 2397          | COMP+CAN (m)    |               | 175 U                         | A                     |
| Cardinal IG                               | Tomah, WI              | 2321          | COMP+CAN (m)    |               | 600 U                         | A                     |
| Cardinal IG                               | Spring Green, WI       | 1844          | COMP+CAN (s)    |               | 500 U                         | A                     |
| Cardinal IG                               | Fargo, ND              | 2231          | COMP+CAN (s)    |               | 150 U                         | A                     |
| Cardinal IG                               | Mountain Top, PA       | 3073          | COMP+CAN (s)    |               | 100 U                         | A                     |
| Cardinal IG                               | Vinton, VA             | 2923          | COMP+CAN (s)    |               | 100 U                         | A                     |
| Cardinal IG                               | Hood River, OR         | 2857          | COMP+CAN (s)    |               | 750 U                         | A                     |
| Cardinal LG                               | Ocala, FL              | 4584          | COMPOSITE (m)   |               | 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                     |
| GlassFab Tempering Services Inc.          | Tracy, CA              | 4894          | COMPOSITE (s)   |               | 125 U                         | A                     |
| Grand Glass Windows and Doors Inc.        | Mobile, AL             | 5071          | COMPOSITE (s)   |               | 165 U                         | A                     |
| Guardian Fabrication Inc.                 | Webster, MA            | 3604          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Guardian Industries Corp.                 | Corsicana, TX          | 2458          | COMPOSITE (m)   |               | 175 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 Industries Corp.                 | Galax, VA              | 4612          | COMP+CAN (s)    |               | 285 U                         | A                     |
| Intigral                                  | Walton Hills, OH       | 3631          | COMP+CAN (m)    |               | 200 U                         | A                     |
| Kawneer - (Cranberry) a division of Alcoa | Cranberry Township, PA | 4394          | COMPOSITE (s)   |               | 100 U                         | A                     |
| Kohler Company                            | Union City, TN         | 1983          | COMPOSITE (m)   |               | 165 U                         | A                     |
| Nashville Tempered Glass Corp.            | Nashville, TN          | 2420          | COMP+CAN (s)    |               | 285 U                         | A                     |
| Northwest Glass, Inc.                     | Billings, MT           | 3653          | COMPOSITE (s)   |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Covington, GA          | 3336          | COMP+CAN (s)    |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Calgary, AB            | 3272          | COMP+CAN (m)    |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Langley, BC            | 3295          | COMP+CAN (m)    |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Concord, ON            | 4423          | COMP+CAN (s)    |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Indianapolis, IN       | 4384          | COMP+CAN (s)    |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Warrenton, MO          | 3151          | COMP+CAN (s)    |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Moorestown, NJ         | 3186          | COMP+CAN (m)    |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Tampa, FL              | 3122          | COMP+CAN (s)    |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Grand Prairie, TX      | 3425          | COMP+CAN (s)    |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Shawnee, OK            | 3101          | COMP+CAN (m)    |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Fremont, CA            | 3199          | COMP+CAN (s)    |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Rock Hill, SC          | 3281          | COMP+CAN (s)    |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Miami, FL              | 3501          | COMP+CAN (s)    |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Phoenix, AZ            | 3134          | COMP+CAN (s)    |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Perrysburg, OH         | 3242          | COMP+CAN (s)    |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Vancouver, WA          | 3226          | COMP+CAN (s)    |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Denver, CO             | 3317          | COMP+CAN (s)    |               | 175 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            | 5003          | COMP+CAN (s)    |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater               | Sweetwater, TN         | 1422          | COMP+CAN (s)    |               | 285 U                         | A                     |
| SIGCO, Inc.                               | Westbrook, ME          | 4543          | COMPOSITE (m)   |               | 100 U                         | A                     |
| Techni-Glass, Inc.                        | Surgoinsville, TN      | 3061          | COMP+CAN (m)    |               | 285 U                         | A                     |
| Thermal Seal Insulating Glass             | Uxbridge, MA           | 4831          | COMPOSITE (s)   |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions      | Lithia Springs, GA     | 4988          | COMP+CAN (m)    |               | 165 U                         | A                     |

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

|                                               |                                | <u>SGCC #</u> | <u>Standard</u> |     | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-----------------------------------------------|--------------------------------|---------------|-----------------|-----|---------------|-------------------------------|-----------------------|
| <i>1/8 Inch Tempered Patterned Glass</i>      |                                |               |                 |     |               |                               |                       |
| Trulite Glass and Aluminum Solutions          | Las Vegas, NV                  | 4217          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Knoxville, TN                  | 4207          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Aurora, CO                     | 5347          | COMPOSITE       |     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Hebron, OH                     | 3768          | COMP+CAN        | (m) |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | San Antonio, TX                | 3818          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Orlando, FL                    | 5189          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Fall River, MA                 | 4964          | COMP+CAN        | (s) |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Houston, TX                    | 5433          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | City of Industry, CA           | 4188          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Atlanta, GA                    | 4090          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions          | Pittsburgh, PA                 | 4452          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East   | Salt Lake City, UT             | 4270          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| United Plate Glass Company of Charlotte       | Lincolnton, NC                 | 3954          | COMPOSITE       | (d) |               | 165 U                         | A                     |
| W. A. Wilson Inc.                             | Wheeling, WV                   | 5173          | COMPOSITE       | (d) |               | 200 U                         | A                     |
| <i>5/32 Inch Tempered Patterned Glass</i>     |                                |               |                 |     |               |                               |                       |
| AGC Flat Glass North America                  | Greenland, TN                  | 2980          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.       | Charleston, SC                 | 4333          | COMPOSITE       | (d) |               | 285 U                         | A                     |
| Arlene Stained Glass & Door                   | Houston, TX                    | 3585          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Cardinal CG                                   | Tumwater, WA                   | 2955          | COMP+CAN        | (d) |               | 195 U                         | A                     |
| Cardinal CG                                   | Waxahachie, TX                 | 4047          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Cardinal CG                                   | Galt, CA                       | 4347          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Cardinal CG                                   | Loveland, CO                   | 4344          | COMPOSITE       | (d) |               | 900 U                         | A                     |
| Cardinal CG                                   | Casa Grande, AZ                | 4104          | COMP+CAN        | (d) |               | 250 U                         | A                     |
| Cardinal CG                                   | Northfield, MN                 | 2012          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Cardinal CT                                   | Easton, PA                     | 4760          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| Cardinal CT                                   | Adel, GA                       | 5099          | COMPOSITE       | (d) |               | 165 U                         | A                     |
| Cardinal CT                                   | Mount Airy, NC                 | 4742          | COMPOSITE       | (m) |               | 165 U                         | A                     |
| Cardinal CT                                   | Utica, OH                      | 4624          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Cardinal IG                                   | Tomah, WI                      | 2322          | COMP+CAN        | (d) |               | 600 U                         | A                     |
| Cardinal IG                                   | Spring Green, WI               | 1845          | COMP+CAN        | (m) |               | 500 U                         | A                     |
| Cardinal IG                                   | Hood River, OR                 | 4836          | COMP+CAN        | (d) |               | 750 U                         | A                     |
| Cardinal IG                                   | Mountain Top, PA               | 3115          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Cardinal IG                                   | Fremont, IN                    | 2204          | COMP+CAN        | (d) |               | 150 U                         | A                     |
| Cardinal IG                                   | Fargo, ND                      | 2285          | COMP+CAN        | (m) |               | 150 U                         | A                     |
| Cardinal IG                                   | Waxahachie, TX                 | 4091          | COMP+CAN        | (d) |               | 175 U                         | A                     |
| Cardinal IG                                   | Vinton, VA                     | 2924          | COMP+CAN        | (d) |               | 100 U                         | A                     |
| Cardinal IG                                   | Greenfield, IA                 | 1842          | COMP+CAN        | (d) |               | 500 U                         | A                     |
| ClearEdge Glass                               | Baton Rouge, LA                | 5330          | COMPOSITE       | (m) |               | 900 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, Guangdong, China     | 5030          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd | Nan'an Fujian China            | 5217          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Fujiansheng Binchang Metal Products Co., Ltd  | Zhang Zhou City, Fujian, China | 5111          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| GGI Glass Distributors Corp.                  | Secaucus, NJ                   | 3970          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| GlassFab Tempering Services Inc.              | Tracy, CA                      | 5128          | COMPOSITE       | (d) |               | 125 U                         | A                     |
| Guardian Fabrication Inc.                     | Webster, MA                    | 2451          | COMPOSITE       | (m) |               | 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>          |                            |               |                  |               |                               |                       |
| Guardian Industries Corp.                          | Corsicana, TX              | 2459          | COMPOSITE (m)    |               | 175 U                         | A                     |
| Guardian Industries Corp.                          | Richburg, SC               | 1635          | COMPOSITE (m)    |               | 285 U                         | A                     |
| Guardian Industries Corp.                          | Kingsburg, CA              | 1301          | COMPOSITE (m)    |               | 125 U                         | A                     |
| Intigral                                           | Walton Hills, OH           | 4588          | COMP+CAN (m)     |               | 200 U                         | A                     |
| Jiaxing Joinbath Corporation                       | Jiaxing, Zhejiang, China   | 5146          | COMPOSITE (m)    |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                 | Foshan, Guangdong, China   | 4161          | COMPOSITE (m)    |               | 125 U                         | A                     |
| Kohler Company                                     | Union City, TN             | 3532          | COMPOSITE (m)    |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Moorestown, NJ             | 3187          | COMP+CAN (d)     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Vancouver, WA              | 3227          | COMP+CAN (d)     |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Albertville, MN            | 3112          | COMP+CAN (s)     |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Shawnee, OK                | 3102          | COMP+CAN (m)     |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Langley, BC                | 3296          | COMP+CAN (d)     |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Rock Hill, SC              | 4396          | COMP+CAN (d)     |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Phoenix, AZ                | 3135          | COMP+CAN (s)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Covington, GA              | 3337          | COMP+CAN (s)     |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Schofield, WI              | 3177          | COMP+CAN (d)     |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Calgary, AB                | 3273          | COMP+CAN (d)     |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Grand Prairie, TX          | 3426          | COMP+CAN (m)     |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Warrenton, MO              | 3152          | COMP+CAN (s)     |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Houston, TX                | 3163          | COMP+CAN (d)     |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Fremont, CA                | 3200          | COMP+CAN (s)     |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Denver, CO                 | 3318          | COMP+CAN (d)     |               | 175 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                | 5004          | COMP+CAN (s)     |               | 400 U                         | A                     |
| SCHOTT Gemtron - Sweetwater                        | Sweetwater, TN             | 1424          | COMP+CAN (s)     |               | 285 U                         | A                     |
| SIGCO, Inc.                                        | Westbrook, ME              | 2967          | COMPOSITE (s)    |               | 100 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd                | Dongguan, Guangdong, China | 5067          | COMPOSITE (m)    |               | 285 U                         | A                     |
| Techni-Glass, Inc.                                 | Surgoinsville, TN          | 5050          | COMP+CAN (m)     |               | 285 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Tianjin, China             | 3460          | COMPOSITE (d)    |               | 250 U                         | A                     |
| Tri-Star Glass                                     | Tulsa, OK                  | 4010          | COMPOSITE (s)    |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Las Vegas, NV              | 4218          | COMPOSITE (m)    |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Fall River, MA             | 2160          | COMP+CAN (s)     |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | San Antonio, TX            | 3647          | COMPOSITE (m)    |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Lithia Springs, GA         | 4989          | COMP+CAN (d)     |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Hebron, OH                 | 2768          | COMP+CAN (d)     |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | City of Industry, CA       | 4372          | COMPOSITE (s)    |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Knoxville, TN              | 4981          | COMP+CAN (d)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East        | Salt Lake City, UT         | 4271          | COMPOSITE (s)    |               | 250 U                         | A                     |
| United Plate Glass Company of Charlotte            | Lincolnton, NC             | 4636          | COMPOSITE (d)    |               | 165 U                         | A                     |
| <i>3/16 Inch Tempered Patterned Glass</i>          |                            |               |                  |               |                               |                       |
| AGC Flat Glass North America                       | Greenland, TN              | 1139          | COMP+CAN (s)     |               | 285 U                         | A                     |
| AGC Flat Glass North America                       | Quakertown, PA             | 3698          | COMPOSITE (m)    |               | 100 U                         | A                     |
| Aldora Aluminum and Glass Products Inc.            | Charleston, SC             | 4334          | COMPOSITE (d)    |               | 285 U                         | A                     |
| American Insulated Glass Inc.                      | Conley, GA                 | 5289          | COMPOSITE (s)    |               | 165 U                         | A                     |
| Amsco Windows                                      | Salt Lake City, UT         | 2584          | COMPOSITE (m)    |               | 750 U                         | A                     |
| Architectural Glass Products, LLC                  | St. Louis, MO              | 4574          | COMPOSITE (s)    |               | 100 U                         | A                     |
| Basco Engineered Products                          | Hamilton, OH               | 4688          | COMPOSITE (m)    |               | 200 U                         | A                     |
| Cardinal CG                                        | Northfield, MN             | 2013          | COMP+CAN (s)     |               | 150 U                         | A                     |

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

|                                           |                          | <u>SGCC #</u> | <u>Standard</u> |     | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|-------------------------------------------|--------------------------|---------------|-----------------|-----|---------------|-------------------------------|-----------------------|
| <i>3/16 Inch Tempered Patterned Glass</i> |                          |               |                 |     |               |                               |                       |
| Cardinal CG                               | Loveland, CO             | 4345          | COMPOSITE       | (m) |               | 900 U                         | A                     |
| Cardinal CG                               | Buford, GA               | 4599          | COMP+CAN        | (s) |               | 165 U                         | A                     |
| Cardinal CG                               | Waxahachie, TX           | 2705          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Cardinal CG                               | Casa Grande, AZ          | 4105          | COMP+CAN        | (s) |               | 250 U                         | A                     |
| Cardinal CG                               | Galt, CA                 | 3601          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Cardinal CG                               | Tumwater, WA             | 2956          | COMP+CAN        | (m) |               | 195 U                         | A                     |
| Cardinal CT                               | Utica, OH                | 4625          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Cardinal CT                               | Easton, PA               | 4761          | COMPOSITE       | (d) |               | 100 U                         | A                     |
| Cardinal CT                               | Adel, GA                 | 5100          | COMPOSITE       | (d) |               | 165 U                         | A                     |
| Cardinal CT                               | Mount Airy, NC           | 4582          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| Cardinal CT - S                           | Irving TX                | 5106          | COMPOSITE       | (d) |               | 175 U                         | A                     |
| Cardinal CT - W                           | Irving TX                | 5250          | COMPOSITE       | (d) |               | 175 U                         | A                     |
| Cardinal IG                               | Mountain Top, PA         | 3072          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Cardinal IG                               | Waxahachie, TX           | 2399          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Cardinal IG                               | Spring Green, WI         | 1846          | COMP+CAN        | (s) |               | 500 U                         | A                     |
| Cardinal IG                               | Los Angeles, CA          | 5089          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Cardinal IG                               | Greenfield, IA           | 1843          | COMP+CAN        | (s) |               | 500 U                         | A                     |
| Cardinal IG                               | Hood River, OR           | 2859          | COMP+CAN        | (m) |               | 750 U                         | A                     |
| Cardinal IG                               | Vinton, VA               | 3619          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Cardinal IG                               | Tomah, WI                | 2323          | COMP+CAN        | (d) |               | 600 U                         | A                     |
| Cardinal IG                               | Fremont, IN              | 2205          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Cardinal IG                               | Fargo, ND                | 2286          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| ClearEdge Glass                           | Baton Rouge, LA          | 5331          | COMPOSITE       | (s) |               | 900 U                         | A                     |
| Consolidated Glass Corp.                  | New Castle, PA           | 2354          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Contour Industries, Inc.                  | Surgoinsville, TN        | 4705          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Contractors Wardrobe                      | Valencia, CA             | 3475          | COMP+CAN        | (d) |               | 250 U                         | A                     |
| Coral Industries Glass Division           | Tuscaloosa, AL           | 1964          | COMPOSITE       | (d) |               | 165 U                         | A                     |
| Downey Glass Industries, LLC              | Pompano Beach, FL        | 3487          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| EFCO Corporation                          | Monett, MO               | 2143          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Flat Glass Distributors                   | Jacksonville, FL         | 3830          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| GGI Glass Distributors Corp.              | Secaucus, NJ             | 3971          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| GlassFab Tempering Services Inc.          | Tracy, CA                | 4895          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Glaz-Tech Industries                      | Englewood, CO            | 2193          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Guardian Fabrication Inc.                 | Webster, MA              | 2603          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Guardian Industries Corp.                 | Galax, VA                | 4613          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| Guardian Industries Corp.                 | Richburg, SC             | 1865          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Guardian Industries Corp.                 | Corsicana, TX            | 2460          | COMPOSITE       | (m) |               | 175 U                         | A                     |
| Guardian Industries Corp.                 | Kingsburg, CA            | 1304          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Interglass Corp                           | Miami, FL                | 5119          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| JYC Glass Co. Ltd.                        | Foshan, Guangdong, China | 4162          | COMPOSITE       | (m) |               | 125 U                         | A                     |
| Kawneer - (Cranberry) a division of Alcoa | Cranberry Township, PA   | 4395          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Kohler Company                            | Union City, TN           | 1984          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| Nashville Tempered Glass Corp.            | Nashville, TN            | 2417          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Northwest Glass, Inc.                     | Billings, MT             | 3655          | COMPOSITE       | (m) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Covington, GA            | 3338          | COMP+CAN        | (m) |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Tampa, FL                | 3124          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Langley, BC              | 3297          | COMP+CAN        | (d) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Houston, TX              | 3164          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Warrenton, MO            | 3153          | COMP+CAN        | (m) |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Denver, CO               | 3319          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®               | Hauppauge, NY            | 3492          | COMP+CAN        | (d) |               | 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> |
|----------------------------------------------------|----------------------|---------------|-----------------|-----|---------------|-------------------------------|-----------------------|
| 3/16 Inch Tempered Patterned Glass                 |                      |               |                 |     |               |                               |                       |
| Oldcastle BuildingEnvelope®                        | Albertville, MN      | 3113          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Moorestown, NJ       | 3188          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Vancouver, WA        | 3228          | COMP+CAN        | (m) |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Los Angeles, CA      | 935           | COMP+CAN        | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Fremont, CA          | 3201          | COMP+CAN        | (m) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Phoenix, AZ          | 3136          | COMP+CAN        | (m) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Concord, ON          | 4424          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Schofield, WI        | 3178          | COMP+CAN        | (d) |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Perrysburg, OH       | 3243          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Miami, FL            | 3502          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Grand Prairie, TX    | 3427          | COMP+CAN        | (s) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Calgary, AB          | 3274          | COMP+CAN        | (d) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Shawnee, OK          | 3103          | COMP+CAN        | (m) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Rock Hill, SC        | 3283          | COMP+CAN        | (d) |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                        | Indianapolis, IN     | 2215          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| PFG 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                     |
| SAAND Rexdale                                      | Rexdale, ON          | 5005          | COMP+CAN        | (s) |               | 400 U                         | A                     |
| SIGCO, Inc.                                        | Westbrook, ME        | 3028          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Solar Seal Company                                 | South Easton, MA     | 1939          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Techni-Glass, Inc.                                 | Surgoinsville, TN    | 2550          | COMP+CAN        | (m) |               | 285 U                         | A                     |
| TianJin Dong Sung Home Building Materials Co. Ltd. | Tianjin, China       | 3431          | COMPOSITE       | (m) |               | 250 U                         | A                     |
| Tri-Star Glass                                     | Tulsa, OK            | 4011          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Richmond, VA         | 2999          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Indianapolis, IN     | 4750          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Hebron, OH           | 2592          | COMP+CAN        | (d) |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | San Antonio, TX      | 4342          | COMPOSITE       | (d) |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | New Berlin, WI       | 5325          | COMPOSITE       | (s) |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | City of Industry, CA | 4373          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Fall River, MA       | 1523          | COMP+CAN        | (m) |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Knoxville, TN        | 4160          | COMP+CAN        | (d) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Orlando, FL          | 5190          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Lithia Springs, GA   | 4990          | COMP+CAN        | (d) |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Las Vegas, NV        | 4219          | COMPOSITE       | (m) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Pittsburgh, PA       | 1790          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Houston, TX          | 3931          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions               | Atlanta, GA          | 3554          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions - East        | Salt Lake City, UT   | 4272          | COMPOSITE       | (m) |               | 250 U                         | A                     |
| United Plate Glass Company of Charlotte            | Lincolnton, NC       | 3955          | COMPOSITE       | (d) |               | 165 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                     |
| 7/32 Inch Tempered Patterned Glass                 |                      |               |                 |     |               |                               |                       |
| Guardian Fabrication Inc.                          | Webster, MA          | 3024          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| 1/4 Inch Tempered Patterned Glass                  |                      |               |                 |     |               |                               |                       |
| Aldora Aluminum and Glass Products Inc.            | Charleston, SC       | 4338          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| American Shower Door                               | Los Angeles, CA      | 3042          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Basco Engineered Products                          | Hamilton, OH         | 4689          | COMPOSITE       | (s) |               | 200 U                         | A                     |



***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> |                            |               |                   |               |                               |                       |
| Cardinal LG                                     | Ocala, FL                  | 4587          | COMPOSITE (s)     |               | 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)     |               | 165 U                         | A                     |
| Denver Glass Interiors, Inc.                    | Englewood, CO              | 4507          | COMPOSITE (m)     |               | 175 U                         | A                     |
| Dongguan Trillion Aluminum Glass Co., Ltd       | Dongguan, Guangdong, China | 5031          | COMPOSITE (s)     |               | 285 U                         | A                     |
| Flat Glass Distributors                         | Jacksonville, FL           | 3831          | COMPOSITE (s)     |               | 285 U                         | A                     |
| Fujian Xihe Sanitary Ware Technology Co., Ltd   | Nan'an Fujian China        | 5218          | COMPOSITE (s)     |               | 285 U                         | A                     |
| GGI Glass Distributors Corp.                    | Secaucus, NJ               | 3972          | COMPOSITE (s)     |               | 100 U                         | A                     |
| GlassFab Tempering Services Inc.                | Tracy, CA                  | 4896          | COMPOSITE (m)     |               | 125 U                         | A                     |
| Guardian Fabrication Inc.                       | Webster, MA                | 4656          | COMPOSITE (s)     |               | 100 U                         | A                     |
| Guardian Industries Corp.                       | Corsicana, TX              | 5142          | COMPOSITE (m)     |               | 175 U                         | A                     |
| Guardian Industries Corp.                       | Richburg, SC               | 3002          | COMPOSITE (m)     |               | 285 U                         | A                     |
| Guardian Industries Corp.                       | Kingsburg, CA              | 1882          | COMPOSITE (m)     |               | 125 U                         | A                     |
| Jiaxing Joinbath Corporation                    | Jiaxing, Zhejiang, China   | 5198          | COMPOSITE (m)     |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                              | Foshan, Guangdong, China   | 4163          | COMPOSITE (s)     |               | 125 U                         | A                     |
| Kohler Company                                  | Union City, TN             | 2918          | COMPOSITE (IN)(m) |               | 165 U                         | A                     |
| McGrory Glass                                   | Paulsboro, NJ              | 4818          | COMPOSITE (s)     |               | 100 U                         | A                     |
| Mercer Glass Fab LLC                            | Trenton, NJ                | 4257          | COMPOSITE (m)     |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Houston, TX                | 3165          | COMP+CAN (m)      |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Tampa, FL                  | 3125          | COMP+CAN (m)      |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Phoenix, AZ                | 3999          | COMP+CAN (s)      |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Moorestown, NJ             | 3189          | COMP+CAN (m)      |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Warrenton, MO              | 3154          | COMP+CAN (m)      |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Vancouver, WA              | 3229          | COMP+CAN (m)      |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Rock Hill, SC              | 3284          | COMP+CAN (d)      |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Covington, GA              | 3339          | COMP+CAN (m)      |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Schofield, WI              | 3179          | COMP+CAN (d)      |               | 600 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Denver, CO                 | 3320          | COMP+CAN (s)      |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Calgary, AB                | 3275          | COMP+CAN (m)      |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Perrysburg, OH             | 3244          | COMP+CAN (m)      |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Miami, FL                  | 4477          | COMP+CAN (d)      |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Los Angeles, CA            | 4133          | COMP+CAN (s)      |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Fremont, CA                | 3907          | COMP+CAN (m)      |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®                     | Albertville, MN            | 3561          | COMP+CAN (s)      |               | 150 U                         | A                     |
| PFG Glass                                       | Langley, BC                | 3711          | COMP+CAN (m)      |               | 750 U                         | A                     |
| Quaker Window Products, Inc.                    | Freeburg, MO               | 2970          | COMP+CAN (IN)(m)  |               | 150 U                         | A                     |
| Tai Sheng (Dong Guan) Glass Co.,Ltd             | Dongguan, Guangdong, China | 5068          | COMPOSITE (m)     |               | 285 U                         | A                     |
| Techni-Glass, Inc.                              | Surgoinsville, TN          | 3060          | COMP+CAN (m)      |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions            | Knoxville, TN              | 4980          | COMP+CAN (d)      |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions            | Lithia Springs, GA         | 4991          | COMP+CAN (m)      |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions            | Hebron, OH                 | 3081          | COMP+CAN (d)      |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions            | Orlando, FL                | 5191          | COMPOSITE (m)     |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions            | San Antonio, TX            | 3819          | COMPOSITE (s)     |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions            | New Berlin, WI             | 5326          | COMPOSITE (s)     |               | 150 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)     |               | 165 U                         | A                     |
| <b><i>3/8 Inch Tempered Patterned Glass</i></b> |                            |               |                   |               |                               |                       |
| Aldora Aluminum and Glass Products Inc.         | Charleston, SC             | 4339          | COMPOSITE (s)     |               | 285 U                         | A                     |

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

|                                      |                      | <u>SGCC #</u> | <u>Standard</u> |     | <u>Lab ID</u> | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------|----------------------|---------------|-----------------|-----|---------------|-------------------------------|-----------------------|
| 3/8 Inch Tempered Patterned Glass    |                      |               |                 |     |               |                               |                       |
| American Shower Door                 | Los Angeles, CA      | 3043          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Basco Engineered Products            | Hamilton, OH         | 5203          | COMPOSITE       | (m) |               | 200 U                         | A                     |
| Consolidated Glass Corp.             | New Castle, PA       | 4785          | 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) |               | 165 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                     |
| GlassFab Tempering Services Inc.     | Tracy, CA            | 4897          | COMPOSITE       | (s) |               | 125 U                         | A                     |
| Guardian Industries Corp.            | Richburg, SC         | 3003          | COMPOSITE       | (m) |               | 285 U                         | A                     |
| Guardian Industries Corp.            | Corsicana, TX        | 5133          | COMPOSITE       | (m) |               | 175 U                         | A                     |
| Guardian Industries Corp.            | Galax, VA            | 4627          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Interglass Corp                      | Miami, FL            | 5027          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| McGrory Glass                        | Paulsboro, NJ        | 4819          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Mercer Glass Fab LLC                 | Trenton, NJ          | 4258          | COMPOSITE       | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Vancouver, WA        | 3230          | COMP+CAN        | (m) |               | 195 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Phoenix, AZ          | 3729          | COMP+CAN        | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Los Angeles, CA      | 3793          | COMP+CAN        | (d) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Rock Hill, SC        | 3285          | COMP+CAN        | (d) |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Fremont, CA          | 3203          | COMP+CAN        | (s) |               | 125 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Langley, BC          | 4710          | COMP+CAN        | (s) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Concord, ON          | 3448          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Grand Prairie, TX    | 3428          | COMP+CAN        | (s) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Perrysburg, OH       | 3245          | COMP+CAN        | (m) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Warrenton, MO        | 3155          | COMP+CAN        | (d) |               | 500 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Houston, TX          | 3166          | COMP+CAN        | (s) |               | 175 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Miami, FL            | 3503          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Covington, GA        | 3340          | COMP+CAN        | (s) |               | 165 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Tampa, FL            | 4340          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Moorestown, NJ       | 3190          | COMP+CAN        | (s) |               | 100 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Indianapolis, IN     | 3259          | COMP+CAN        | (s) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Calgary, AB          | 3262          | COMP+CAN        | (d) |               | 750 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Albertville, MN      | 3127          | COMP+CAN        | (m) |               | 150 U                         | A                     |
| Oldcastle BuildingEnvelope®          | Denver, CO           | 3321          | COMP+CAN        | (s) |               | 175 U                         | A                     |
| SAAND Rexdale                        | Rexdale, ON          | 5006          | COMP+CAN        | (s) |               | 400 U                         | A                     |
| SIGCO, Inc.                          | Westbrook, ME        | 4206          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Troy Systems LLC                     | Manassas, VA         | 5123          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Lithia Springs, GA   | 4992          | COMP+CAN        | (s) |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Fall River, MA       | 4965          | COMP+CAN        | (s) |               | 400 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Pittsburgh, PA       | 4453          | COMPOSITE       | (s) |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions | New Berlin, WI       | 5327          | COMPOSITE       | (m) |               | 150 U                         | A                     |
| Trulite Glass and Aluminum Solutions | San Antonio, TX      | 3820          | COMPOSITE       | (s) |               | 175 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Orlando, FL          | 5192          | COMPOSITE       | (s) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Hebron, OH           | 3082          | COMP+CAN        | (m) |               | 200 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Las Vegas, NV        | 4221          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions | City of Industry, CA | 4374          | COMPOSITE       | (s) |               | 250 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Atlanta, GA          | 4554          | COMPOSITE       | (s) |               | 165 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Knoxville, TN        | 5134          | COMP+CAN        | (s) |               | 285 U                         | A                     |
| Trulite Glass and Aluminum Solutions | Aurora, CO           | 5350          | COMPOSITE       | (s) |               | 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> |
|----------------------------------------------------------------------------------------------------------|-------------------------------|---------------|-----------------|--------|---------------|-------------------------------|-----------------------|
| <b><i>3/8 Inch Tempered Patterned Glass</i></b>                                                          |                               |               |                 |        |               |                               |                       |
| Trulite Glass and Aluminum Solutions - East                                                              | Salt Lake City, UT            | 4479          | COMPOSITE       | (s)    |               | 250 U                         | A                     |
| W. A. Wilson Inc.                                                                                        | Wheeling, WV                  | 4176          | COMPOSITE       | (s)    |               | 200 U                         | A                     |
| <b><i>1/2 Inch Tempered Patterned Glass</i></b>                                                          |                               |               |                 |        |               |                               |                       |
| Coral Industries Glass Division                                                                          | Tuscaloosa, AL                | 3817          | COMPOSITE       | (m)    |               | 165 U                         | A                     |
| GGI Glass Distributors Corp.                                                                             | Secaucus, NJ                  | 3974          | COMPOSITE       | (s)    |               | 100 U                         | A                     |
| McGrory Glass                                                                                            | Paulsboro, NJ                 | 4820          | COMPOSITE       | (s)    |               | 100 U                         | A                     |
| Trulite Glass and Aluminum Solutions                                                                     | New Berlin, WI                | 5328          | COMPOSITE       | (s)    |               | 150 U                         | A                     |
| <b><u>Tempered Bent Patterned Glass</u></b>                                                              |                               |               |                 |        |               |                               |                       |
| <b><i>3/16 Inch Tempered Bent Patterned Glass</i></b>                                                    |                               |               |                 |        |               |                               |                       |
| JYC Glass Co. Ltd.                                                                                       | Foshan, Guangdong, China      | 4165          | COMPOSITE       | (m)    |               | 125 U                         | A                     |
| <b><i>1/4 Inch Tempered Bent Patterned Glass</i></b>                                                     |                               |               |                 |        |               |                               |                       |
| JYC Glass Co. Ltd.                                                                                       | Foshan, Guangdong, China      | 4166          | COMPOSITE       | (s)    |               | 125 U                         | A                     |
| <b><i>6 mm Tempered Bent Patterned Glass (Conforms to thickness tolerance other than ASTM C1036)</i></b> |                               |               |                 |        |               |                               |                       |
| Bendheim Wall Systems                                                                                    | Wunsiedel-Holenbrunn, Germany | 5145          | COMPOSITE       | (s)(2) |               | 100 20x76                     | A                     |
| <b><i>7 mm Tempered Bent Patterned Glass (Conforms to thickness tolerance other than ASTM C1036)</i></b> |                               |               |                 |        |               |                               |                       |
| Bendheim Wall Systems                                                                                    | Wunsiedel-Holenbrunn, Germany | 5144          | COMPOSITE       | (s)(2) |               | 100 16x76                     | A                     |
| <b><u>Tempered Bent Glass</u></b>                                                                        |                               |               |                 |        |               |                               |                       |
| <b><i>5/32 Inch Tempered Bent Glass</i></b>                                                              |                               |               |                 |        |               |                               |                       |
| Anthony International                                                                                    | Madison, GA                   | 2305          | COMPOSITE       |        |               | 165 U                         | A                     |
| Jiaxing Joinbath Corporation                                                                             | Jiaxing, Zhejiang, China      | 5370          | COMPOSITE       |        |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                                       | Foshan, Guangdong, China      | 3991          | COMPOSITE       |        |               | 125 U                         | A                     |
| Saint-Gobain SOVIS                                                                                       | Thierry, France               | 1992          | COMPOSITE       |        |               | 400 U                         | A                     |
| Vetreria Valentini S.R.L.                                                                                | Brescia, Italy                | 4246          | COMPOSITE       |        |               | 400 U                         | A                     |
| <b><i>3/16 Inch Tempered Bent Glass</i></b>                                                              |                               |               |                 |        |               |                               |                       |
| Anthony International                                                                                    | Madison, GA                   | 2306          | COMPOSITE       |        |               | 165 U                         | A                     |
| Jiaxing Joinbath Corporation                                                                             | Jiaxing, Zhejiang, China      | 4828          | COMPOSITE       |        |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                                       | Foshan, Guangdong, China      | 3992          | COMPOSITE       |        |               | 125 U                         | A                     |
| Paragon Tempered Glass                                                                                   | Antwerp, OH                   | 5242          | COMPOSITE       |        |               | 500 U                         | A                     |
| Saint-Gobain SOVIS                                                                                       | Thierry, France               | 2770          | COMPOSITE       |        |               | 400 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                                         | Foshan, Guangdong, China      | 3742          | COMP+CAN        |        |               | 285 U                         | A                     |
| <b><i>1/4 Inch Tempered Bent Glass</i></b>                                                               |                               |               |                 |        |               |                               |                       |
| Anthony International                                                                                    | Madison, GA                   | 2307          | COMPOSITE       |        |               | 165 U                         | A                     |
| Jiangmen SYP Engineering Glass                                                                           | Jiangmen, Guangdong, China    | 5052          | COMP+CAN        |        |               | 125 U                         | A                     |
| Jiaxing Joinbath Corporation                                                                             | Jiaxing, Zhejiang, China      | 4389          | COMPOSITE       |        |               | 125 U                         | A                     |
| JYC Glass Co. Ltd.                                                                                       | Foshan, Guangdong, China      | 3993          | COMPOSITE       |        |               | 125 U                         | A                     |
| Paragon Tempered Glass                                                                                   | Antwerp, OH                   | 4811          | COMPOSITE       |        |               | 500 U                         | A                     |
| Saint-Gobain SOVIS                                                                                       | Thierry, France               | 1864          | COMPOSITE       |        |               | 400 U                         | A                     |
| Vetreria Valentini S.R.L.                                                                                | Brescia, Italy                | 2898          | COMPOSITE       |        |               | 400 U                         | A                     |
| Yao Xiang Glass Product Co. Ltd.                                                                         | Foshan, Guangdong, China      | 3743          | COMP+CAN        |        |               | 285 U                         | A                     |
| <b><i>6 mm Tempered Bent Glass (Conforms to thickness tolerance other than ASTM C1036)</i></b>           |                               |               |                 |        |               |                               |                       |
| Bendheim Wall Systems                                                                                    | Wunsiedel-Holenbrunn, Germany | 2570          | COMPOSITE       | (2)    |               | 100 20x76                     | A                     |
| <b><i>7 mm Tempered Bent Glass (Conforms to thickness tolerance other than ASTM C1036)</i></b>           |                               |               |                 |        |               |                               |                       |
| Bendheim Wall Systems                                                                                    | Wunsiedel-Holenbrunn, Germany | 2569          | COMPOSITE       | (2)    |               | 100 16x76                     | A                     |
| <b><i>5/16 Inch Tempered Bent Glass</i></b>                                                              |                               |               |                 |        |               |                               |                       |
| Jiangmen SYP Engineering Glass                                                                           | Jiangmen, Guangdong, China    | 5053          | COMP+CAN        |        |               | 125 U                         | A                     |

**Certified Products-By Product Type**

|                                            |                             | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u>           | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|--------------------------------------------|-----------------------------|---------------|-----------------|-------------------------|-------------------------------|-----------------------|
| <i>5/16 Inch Tempered Bent Glass</i>       |                             |               |                 |                         |                               |                       |
| JYC Glass Co. Ltd.                         | Foshan, Guangdong, China    | 3994          | COMPOSITE       |                         | 125 U                         | A                     |
| <i>3/8 Inch Tempered Bent Glass</i>        |                             |               |                 |                         |                               |                       |
| Jiangmen SYP Engineering Glass             | Jiangmen, Guangdong, China  | 5054          | COMP+CAN        |                         | 125 U                         | A                     |
| <i>1/2 Inch Tempered Bent Glass</i>        |                             |               |                 |                         |                               |                       |
| Jiangmen SYP Engineering Glass             | Jiangmen, Guangdong, China  | 5055          | COMP+CAN        |                         | 125 U                         | A                     |
| <b><u>Laminated Transparent Glass</u></b>  |                             |               |                 |                         |                               |                       |
| <i>(S) Laminated Transparent Glass</i>     |                             |               |                 |                         |                               |                       |
| 4-6mm SAAND Rexdale                        | Rexdale, ON                 | 5001          | COMP+CAN        | (.030) (b)(A)           | 400 U                         | A                     |
| <i>(S) Laminated Transparent Glass</i>     |                             |               |                 |                         |                               |                       |
| 5mm Cardinal LG                            | Amery, WI                   | 4120          | COMP+CAN        | (.015)(C1) (b)(A)       | 150 U                         | B                     |
| 5-6mm Cardinal LG                          | Amery, WI                   | 2976          | COMP+CAN        | (.030) (b)(A)           | 150 U                         | A                     |
| 5-6mm Cardinal LG                          | Amery, WI                   | 4350          | COMP+CAN        | (.035) (ip)(A)          | 150 U                         | A                     |
| 5-6mm Cardinal LG                          | Ocala, FL                   | 4361          | COMPOSITE       | (.035) (ip)(A)          | 285 U                         | A                     |
| 5-6mm Cardinal LG Northeast                | Jessup, PA                  | 5224          | COMP+CAN        | (.030) (b)(A)           | 400 U                         | A                     |
| 5-6mm Pennsylvania Insulating Glass        | Lewistown, PA               | 3918          | COMPOSITE       | (.030) (b)(A)           | 100 U                         | A                     |
| 5mm Protective Insulating Glass            | New Braunfels, TX           | 5235          | COMPOSITE       | (.030) (b)(A)           | 175 U                         | A                     |
| 5-6mm Trulite Glass and Aluminum Solutions | Lithia Springs, GA          | 5358          | COMP+CAN        | (.030) (b)(A)           | 165 U                         | A                     |
| 5mm Trulite Glass and Aluminum Solutions   | Carbondale, PA              | 4977          | COMPOSITE       | (.015)(C1) (b)(A)       | 100 U                         | B                     |
| 5-6mm Trulite Glass and Aluminum Solutions | Grenada, MS                 | 4743          | COMPOSITE       | (.030) (b)(A)           | 175 U                         | A                     |
| <i>(S) Laminated Transparent Glass</i>     |                             |               |                 |                         |                               |                       |
| 6mm Berkowitz, J.E.                        | Pedricktown, NJ             | 5222          | COMP+CAN        | (.030) (b)(A)           | 100 U                         | A                     |
| 6mm Cardinal LG                            | Ocala, FL                   | 3509          | COMPOSITE       | (.030) (b)(A)           | 285 U                         | A                     |
| 6mm Consolidated Armor Products, LLC       | Addison, TX                 | 5418          | COMP+CAN        | (.030) (b)(A)           | 175 U                         | A                     |
| 6mm Downey Glass Industries, LLC           | Pompano Beach, FL           | 5121          | COMPOSITE       | (.035) (ip)(A)          | 285 U                         | A                     |
| 6mm Fairis C.A.                            | Ambato, Tungurahua, Ecuador | 4722          | COMPOSITE       | (.030) (b)(A)           | 285 U                         | A                     |
| 6mm Glass Dynamics, Inc.                   | Stoneville, NC              | 4413          | COMPOSITE       | (.035) (ip)(A)          | 285 U                         | A                     |
| 6mm Glass Dynamics, Inc.                   | Stoneville, NC              | 4375          | COMPOSITE       | (.030) (b)(A)           | 285 U                         | A                     |
| 6mm GlassFab Tempering Services Inc.       | Tracy, CA                   | 4898          | COMPOSITE       | (.030) (b)(A)           | 125 U                         | A                     |
| 6mm Global Security Glazing                | Selma, AL                   | 4769          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 6mm Guardian Industries Corp.              | Galax, VA                   | 4800          | COMP+CAN        | (.075) (b)(p)(el)(6)(A) | 285 U                         | A                     |
| 6mm Guardian Industries Corp.              | Galax, VA                   | 4633          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 6mm Insulite Glass Co., Inc.               | Olathe, KS                  | 3718          | COMPOSITE       | (.030) (b)(A)           | 150 U                         | A                     |
| 6mm McGrory Glass                          | Paulsboro, NJ               | 5262          | COMPOSITE       | (.025) (b)(A)           | 100 U                         | A                     |
| 6mm Nashville Tempered Glass LLC           | Hendersonville, TN          | 5229          | COMP+CAN        | (.015) (b)(A)           | 285 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Perrysburg, OH              | 4700          | COMP+CAN        | (.030) (b)(A)           | 100 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Langley, BC                 | 4475          | COMP+CAN        | (.015) (b)(A)           | 750 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Los Angeles, CA             | 4346          | COMP+CAN        | (.030) (b)(A)           | 125 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Grand Prairie, TX           | 3258          | COMP+CAN        | (.030) (b)(A)           | 175 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Hauppauge, NY               | 3392          | COMP+CAN        | (.030) (b)(A)           | 400 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Denver, CO                  | 4533          | COMP+CAN        | (.030) (b)(A)           | 175 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Tampa, FL                   | 4448          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Fremont, CA                 | 4457          | COMP+CAN        | (.060) (ip)(A)          | 125 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Miami, FL                   | 4397          | COMP+CAN        | (.030) (ip)(A)          | 285 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Miami, FL                   | 4001          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Covington, GA               | 4391          | COMP+CAN        | (.030) (b)(A)           | 165 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®            | Denver, CO                  | 4455          | COMP+CAN        | (.035) (ip)(A)          | 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>(S) Laminated Transparent Glass</i>          |                                    |               |                 |                   |                               |                       |
| 6mm Oldcastle BuildingEnvelope®                 | Pointe-aux-Trembles, QC            | 5025          | COMP+CAN        | (.030) (b)(A)     | 100 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®                 | Schofield, WI                      | 3176          | COMP+CAN        | (.030) (b)(A)     | 600 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®                 | Los Angeles, CA                    | 4576          | COMP+CAN        | (.035) (ip)(A)    | 125 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®                 | Pointe-aux-Trembles, QC            | 4432          | COMP+CAN        | (.035) (ip)(A)    | 100 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®                 | Fremont, CA                        | 4531          | COMP+CAN        | (.030) (b)(A)     | 125 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®                 | Wright City, MO                    | 4526          | COMP+CAN        | (.030) (b)(A)     | 150 U                         | A                     |
| 6mm Oldcastle BuildingEnvelope®                 | Pointe-aux-Trembles, QC            | 5024          | COMP+CAN        | (.015)(C1) (b)(A) | 100 U                         | B                     |
| 6mm Oldcastle BuildingEnvelope®                 | Wright City, MO                    | 4528          | COMP+CAN        | (.035) (ip)(A)    | 150 U                         | A                     |
| 6mm Phoenixia Flat Glass Industries             | Nazaret, Ilit Israel               | 5290          | COMPOSITE       | (.060) (b)(A)     | 100 U                         | A                     |
| 6mm Prelco Inc.                                 | Riviere-du-loup, QC                | 4905          | COMP+CAN        | (.030) (b)(A)     | 800 U                         | A                     |
| 6mm Saint Gobain Mexico, S.A. de C.V.           | Cuautla, Morelos, Mexico           | 2743          | COMPOSITE       | (.030) (b)(A)     | 400 U                         | A                     |
| 6mm Saint Gobain Mexico, S.A. de C.V.           | Cuautla, Morelos, Mexico           | 2269          | ANSI ONLY       | (.015)(C1) (b)(A) | 400 U                         | B                     |
| 6mm Shanghai SYP Building Glass                 | Shanghai, China                    | 2779          | COMPOSITE       | (.030) (b)(A)     | 125 U                         | A                     |
| 6mm Tacoma Glass Mfg. Inc.                      | Lakewood, WA                       | 5112          | COMPOSITE       | (.030) (b)(A)     | 195 U                         | A                     |
| 6mm Taiwan Glass Industry Corp.                 | Taipei, Taiwan, China              | 3892          | COMPOSITE       | (.015) (b)(A)     | 750 U                         | A                     |
| 6mm Thompson I.G. LLC.                          | Fenton, MI                         | 5300          | COMP+CAN        | (.030) (b)(A)     | 400 U                         | A                     |
| 6mm Tianjin SYP Engineering Glass               | Tianjin, China                     | 4083          | COMP+CAN        | (.030) (b)(A)     | 125 U                         | A                     |
| 6mm Tri-Star Glass                              | Tulsa, OK                          | 5441          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 6mm Triview Glass Industries                    | City of Industry, CA               | 5047          | COMP+CAN        | (.030) (b)(A)     | 250 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | Houston, TX                        | 5434          | COMPOSITE       | (.035) (b)(A)     | 175 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | Columbus, OH                       | 3407          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | Youngsville, NC                    | 4437          | COMPOSITE       | (.030) (b)(A)     | 165 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | Orlando, FL                        | 3461          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | Lithia Springs, GA                 | 5356          | COMP+CAN        | (.035) (ip)(A)    | 165 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | Atlanta, GA                        | 3536          | COMPOSITE       | (.030) (b)(A)     | 165 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | City of Industry, CA               | 4233          | COMPOSITE       | (.030) (b)(A)     | 250 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | Fort Worth, TX                     | 3603          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | New Berlin, WI                     | 3430          | COMPOSITE       | (.030) (b)(A)     | 150 U                         | A                     |
| 6mm Trulite Glass and Aluminum Solutions        | Carbondale, PA                     | 5214          | COMPOSITE       | (.030) (b)(A)     | 100 U                         | A                     |
| 6mm Vidrio Bisel S.A. de C.V.                   | Santa Catarina, Nuevo Leon, Mexico | 4969          | COMPOSITE       | (.015)(C1) (b)(A) | 175 U                         | B                     |
| 6mm Vidrio Bisel S.A. de C.V.                   | Santa Catarina, Nuevo Leon, Mexico | 4968          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 6mm Vidrios El Castillo SC de RL de CV          | Escobedo, Nuevo Leon, Mexico       | 4713          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 6mm Vidrios El Castillo SC de RL de CV          | Escobedo, Nuevo Leon, Mexico       | 4712          | COMPOSITE       | (.015)(C1) (b)(A) | 175 U                         | B                     |
| 6mm Viracon Inc.                                | Statesboro, GA                     | 5017          | COMP+CAN        | (.030) (b)(A)     | 165 U                         | A                     |
| 6mm Viracon Inc.                                | Owatonna, MN                       | 1637          | COMP+CAN        | (.030) (b)(A)     | 150 U                         | A                     |
| 6mm Viwinco, Inc.                               | Morgantown, PA                     | 3406          | COMPOSITE       | (.090) (b)(A)     | 100 U                         | A                     |
| 6mm Xinyi Group (Glass) Co., Ltd.               | Dongguan, Guangdong, China         | 3056          | COMP+CAN        | (.030) (b)(A)     | 125 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>          |                                    |               |                 |                   |                               |                       |
| 8-16+mm Al Abbar Architectural Glass            | Dubai, United Arab Emirates        | 3560          | COMPOSITE       | (.030) (b)(A)     | 100 U                         | A                     |
| 8, 12mm Aldora Aluminum and Glass Products Inc. | Charleston, SC                     | 4337          | COMPOSITE       | (.060) (lu)(A)(6) | 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>             |                               |  |               |                 |                         |                               |                       |
| 8-16+mm Berkowitz, J.E.                            | Pedricktown, NJ               |  | 3750          | COMP+CAN        | (.030) (b)(A)           | 100 U                         | A                     |
| 8-12mm Cardinal LG                                 | Amery, WI                     |  | 2462          | COMP+CAN        | (.030) (b)(A)           | 150 U                         | A                     |
| 8-12mm Cardinal LG                                 | Ocala, FL                     |  | 4362          | COMPOSITE       | (.035) (ip)(A)          | 285 U                         | A                     |
| 8-12mm Cardinal LG                                 | Amery, WI                     |  | 4351          | COMP+CAN        | (.035) (ip)(A)          | 150 U                         | A                     |
| 8-12mm Cardinal LG                                 | Ocala, FL                     |  | 3510          | COMPOSITE       | (.030) (b)(A)           | 285 U                         | A                     |
| 8-12mm Cardinal LG Northeast                       | Jessup, PA                    |  | 5225          | COMP+CAN        | (.030) (b)(A)           | 400 U                         | A                     |
| 8mm Changshu Zhongxin Bldg. Mat. Co.               | Changshu City, China          |  | 4363          | COMP+CAN        | (.090) (b)(A)           | 750 U                         | A                     |
| 8-16+mm Consolidated Armor Products, LLC           | Addison, TX                   |  | 5120          | COMP+CAN        | (.030) (b)(A)           | 175 U                         | A                     |
| 8-12mm Dongguan CSG Architectural Glass Co., Ltd.  | Dongguan, Guangdong, China    |  | 4167          | COMP+CAN        | (.030) (b)(A)           | 125 U                         | A                     |
| 8-12mm Dongguan Dongfa Glass Product Co., Ltd      | Dongguan, Guangdong, China    |  | 4123          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 8-16+mm Glass Dynamics, Inc.                       | Stoneville, NC                |  | 4376          | COMPOSITE       | (.030) (b)(A)           | 285 U                         | A                     |
| 8-16+mm Glass Dynamics, Inc.                       | Stoneville, NC                |  | 4414          | COMPOSITE       | (.035) (ip)(A)          | 285 U                         | A                     |
| 8-12mm GlassFab Tempering Services Inc.            | Tracy, CA                     |  | 4899          | COMPOSITE       | (.030) (b)(A)           | 125 U                         | A                     |
| 8mm Guardian Industries Corp.                      | Galax, VA                     |  | 4658          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 8-10mm Guardian Industries Corp.                   | Galax, VA                     |  | 4829          | COMP+CAN        | (.075) (b)(p)(el)(6)(A) | 285 U                         | A                     |
| 8mm Gulf Glass Industries, LLC                     | Sharjah, United Arab Emirates |  | 4799          | COMPOSITE       | (.030) (b)(A)           | 100 U                         | A                     |
| 8mm Insulite Glass Co., Inc.                       | Olathe, KS                    |  | 3720          | COMPOSITE       | (.060) (b)(A)           | 150 U                         | A                     |
| 8-16+mm Jiangmen SYP Engineering Glass             | Jiangmen, Guangdong, China    |  | 4312          | COMP+CAN        | (.030) (b)(A)           | 125 U                         | A                     |
| 8-12mm Kawneer - (Cranberry) a division of Alcoa   | Cranberry Township, PA        |  | 2748          | COMPOSITE       | (.090) (ip)(A)          | 100 U                         | A                     |
| 8 & 12mm Kawneer - (Cranberry) a division of Alcoa | Cranberry Township, PA        |  | 2715          | COMPOSITE       | (.060) (b)(A)           | 100 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Wright City, MO               |  | 4529          | COMP+CAN        | (.035) (ip)(A)          | 150 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Houston, TX                   |  | 4402          | COMP+CAN        | (.030) (b)(A)           | 175 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Fremont, CA                   |  | 4460          | COMP+CAN        | (.030) (b)(A)           | 125 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Perrysburg, OH                |  | 4444          | COMP+CAN        | (.035) (ip)(A)          | 100 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Pointe-aux-Trembles, QC       |  | 4433          | COMP+CAN        | (.035) (ip)(A)          | 100 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Pointe-aux-Trembles, QC       |  | 4435          | COMP+CAN        | (.030) (b)(A)           | 100 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Miami, FL                     |  | 4398          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Wright City, MO               |  | 4527          | COMP+CAN        | (.030) (b)(A)           | 150 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Langley, BC                   |  | 4476          | COMP+CAN        | (.015) (b)(A)           | 750 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Miami, FL                     |  | 4399          | COMP+CAN        | (.030) (ip)(A)          | 285 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Denver, CO                    |  | 4456          | COMP+CAN        | (.035) (ip)(A)          | 175 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Schofield, WI                 |  | 4558          | COMP+CAN        | (.030) (b)(A)           | 600 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Tampa, FL                     |  | 4449          | COMP+CAN        | (.030) (b)(A)           | 285 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Fremont, CA                   |  | 4461          | COMP+CAN        | (.060) (ip)(A)          | 125 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Denver, CO                    |  | 4454          | COMP+CAN        | (.030) (b)(A)           | 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>(H) Laminated Transparent Glass</i>             |                                      |               |                 |                   |                               |                       |
| 8-16+mm Oldcastle BuildingEnvelope®                | Los Angeles, CA                      | 4563          | COMP+CAN        | (.030) (b)(A)     | 125 U                         | A                     |
| 8-16+mm Oldcastle BuildingEnvelope®                | Perrysburg, OH                       | 4446          | COMP+CAN        | (.030) (b)(A)     | 100 U                         | A                     |
| 8-12mm Pennsylvania Insulating Glass               | Lewistown, PA                        | 3919          | COMPOSITE       | (.030) (b)(A)     | 100 U                         | A                     |
| 8-12mm PGT Industries                              | Nokomis, FL                          | 3482          | COMPOSITE       | (.090) (ip)(A)    | 285 U                         | A                     |
| 8-12mm PGT Industries                              | Nokomis, FL                          | 2426          | COMPOSITE       | (.060) (b)(A)     | 285 U                         | A                     |
| 8-16+mm Prelco Inc.                                | Riviere-du-loup, QC                  | 4906          | COMP+CAN        | (.030) (b)(A)     | 800 U                         | A                     |
| 8mm Protective Insulating Glass                    | New Braunfels, TX                    | 5236          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 8-16+mm SAAND Rexdale                              | Rexdale, ON                          | 5002          | COMP+CAN        | (.030) (b)(A)     | 400 U                         | A                     |
| 8, 12mm Saint Gobain Mexico, S.A. de C.V.          | Cuautla, Morelos, Mexico             | 2332          | COMPOSITE       | (.030) (b)(A)     | 400 U                         | A                     |
| 8-10mm Saint Gobain Mexico, S.A. de C.V.           | Cuautla, Morelos, Mexico             | 2267          | ANSI ONLY       | (.015)(C1) (b)(A) | 400 U                         | B                     |
| 8-16+mm Shanghai SYP Building Glass                | Shanghai, China                      | 4807          | COMPOSITE       | (.035) (ip)(A)    | 125 U                         | A                     |
| 8mm Shanghai SYP Building Glass                    | Shanghai, China                      | 4353          | COMPOSITE       | (.030) (b)(A)     | 125 U                         | A                     |
| 8-12mm Tacoma Glass Mfg. Inc.                      | Lakewood, WA                         | 4735          | COMPOSITE       | (.030) (b)(A)     | 195 U                         | A                     |
| 8-16+mm Tecnoglass S.A.                            | Barranquilla, Colombia               | 4003          | COMP+CAN        | (.030) (b)(A)     | 285 U                         | A                     |
| 8mm Thompson I.G. LLC.                             | Fenton, MI                           | 5302          | COMP+CAN        | (.060) (b)(A)     | 400 U                         | A                     |
| 8mm Tianjin CSG Energy Conservation Glass Co., Ltd | Tianjin, China                       | 4030          | COMPOSITE       | (.030) (b)(A)     | 100 U                         | A                     |
| 8-16+mm Tianjin SYP Engineering Glass              | Tianjin, China                       | 4084          | COMP+CAN        | (.015) (b)(A)     | 125 U                         | A                     |
| 8mm Triview Glass Industries                       | City of Industry, CA                 | 5048          | COMP+CAN        | (.060) (b)(A)     | 250 U                         | A                     |
| 8-16+mm Trulite Glass and Aluminum Solutions       | Lithia Springs, GA                   | 5357          | COMP+CAN        | (.035) (ip)(A)    | 165 U                         | A                     |
| 8-16+mm Trulite Glass and Aluminum Solutions       | Lithia Springs, GA                   | 5359          | COMP+CAN        | (.030) (b)(A)     | 165 U                         | A                     |
| 8mm Trulite Glass and Aluminum Solutions           | Grenada, MS                          | 4755          | COMPOSITE       | (.090) (b)(A)     | 175 U                         | A                     |
| 8mm Trulite Glass and Aluminum Solutions           | Carbondale, PA                       | 4976          | COMPOSITE       | (.090) (b)(A)     | 100 U                         | A                     |
| 8-16+mm Viracon Inc.                               | Owatonna, MN                         | 4249          | COMP+CAN        | (.030) (b)(A)     | 150 U                         | A                     |
| 8-16+mm Viracon Inc.                               | Statesboro, GA                       | 4779          | COMP+CAN        | (.030) (b)(A)     | 165 U                         | A                     |
| 8mm Viwinco, Inc.                                  | Morgantown, PA                       | 3408          | COMPOSITE       | (.090) (b)(A)     | 100 U                         | A                     |
| 8mm Wujiang Golden Glass Technologies, Ltd.        | Wujiang City,                        | 5257          | COMPOSITE       | (.030) (b)(A)     | 125 U                         | A                     |
| 8-16+mm Xinyi Group (Glass) Co., Ltd.              | Dongguan, Guangdong, China           | 3489          | COMP+CAN        | (.030) (b)(A)     | 125 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>             |                                      |               |                 |                   |                               |                       |
| 10-16+mm Consolidated Armor Products, LLC          | Addison, TX                          | 5419          | COMP+CAN        | (.030) (b)(A)     | 175 U                         | A                     |
| 10-16+mm Downey Glass Industries, LLC              | Pompano Beach, FL                    | 5122          | COMPOSITE       | (.035) (ip)(A)    | 285 U                         | A                     |
| 10-12mm Fairis C.A.                                | Ambato, Tungurahua, Ecuador          | 4430          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 10mm Future Architectural Glass LLC                | Ras Al Khaimah, United Arab Emirates | 5118          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 10-16+mm Guangdong Golden Glass Technologies       | Shantou, Guangdong, China            | 3947          | COMPOSITE       | (.030) (b)(A)     | 125 U                         | A                     |
| 10-12mm Insulite Glass Co., Inc.                   | Olathe, KS                           | 3723          | COMPOSITE       | (.030) (b)(A)     | 150 U                         | A                     |
| 10-16+mm Jiangmen SYP Engineering Glass            | Jiangmen, Guangdong, China           | 4575          | COMP+CAN        | (.060) (ip)(A)    | 125 U                         | A                     |
| 10mm Kawneer - (Cranberry) a division of Alcoa     | Cranberry Township, PA               | 2716          | COMPOSITE       | (.030) (b)(A)     | 100 U                         | A                     |
| 10mm Louisville Plate Glass Company                | Louisville, KY                       | 5093          | COMPOSITE       | (.060) (lu)(A)(6) | 165 U                         | A                     |

**Certified Products-By Product Type**

|                                                                |                                      | <u>SGCC #</u> | <u>Standard</u> | <u>Lab ID</u>     | <u>Max Size<br/>Certified</u> | <u>ANSI<br/>CLASS</u> |
|----------------------------------------------------------------|--------------------------------------|---------------|-----------------|-------------------|-------------------------------|-----------------------|
| (H) Laminated Transparent Glass                                |                                      |               |                 |                   |                               |                       |
| 10-12mm Nashville Tempered Glass LLC                           | Hendersonville, TN                   | 5230          | COMP+CAN        | (.030) (b)(A)     | 285 U                         | A                     |
| 10-16+mm Oldcastle BuildingEnvelope®                           | Covington, GA                        | 4392          | COMP+CAN        | (.030) (b)(A)     | 165 U                         | A                     |
| 10-16+mm Oldcastle BuildingEnvelope®                           | Hauppauge, NY                        | 4618          | COMP+CAN        | (.030) (b)(A)     | 400 U                         | A                     |
| 10-16+mm Oldcastle BuildingEnvelope®                           | Los Angeles, CA                      | 4561          | COMP+CAN        | (.035) (ip)(A)    | 125 U                         | A                     |
| 10-12mm Oldcastle BuildingEnvelope®                            | Covington, GA                        | 4393          | COMP+CAN        | (.035) (ip)(A)    | 165 U                         | A                     |
| 10-12mm Pulp Studio Inc.                                       | Los Angeles, CA                      | 4711          | COMPOSITE       | (.075) (b)(A)     | 250 U                         | A                     |
| 10mm Saint Gobain Mexico, S.A. de C.V.                         | Cuautla, Morelos, Mexico             | 3479          | COMPOSITE       | (.090) (b)(A)     | 400 U                         | A                     |
| 10-16+mm Shanghai SYP Building Glass                           | Shanghai, China                      | 2780          | COMPOSITE       | (.015) (b)(A)     | 125 U                         | A                     |
| 10-16+mm TG Changjiang Glass Co., Ltd                          | Kunshan City, Jiangsu, China         | 5176          | COMP+CAN        | (.015) (b)(A)     | 750 U                         | A                     |
| 10-12mm Thompson I.G. LLC.                                     | Fenton, MI                           | 5301          | COMP+CAN        | (.030) (b)(A)     | 400 U                         | A                     |
| 10mm Tianjin CSG Energy Conservation Glass Co., Ltd            | Tianjin, China                       | 4106          | COMPOSITE       | (.045) (b)(A)     | 100 U                         | A                     |
| 10-12mm Tri-Star Glass                                         | Tulsa, OK                            | 4411          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 10-12mm Trulite Glass and Aluminum Solutions                   | Carbondale, PA                       | 4232          | COMPOSITE       | (.030) (b)(A)     | 100 U                         | A                     |
| 10-16+mm Trulite Glass and Aluminum Solutions                  | Grenada, MS                          | 4744          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 10mm Vidrio Bisel S.A. de C.V.                                 | Santa Catarina, Nuevo Leon, Mexico   | 5056          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 10mm Wujiang Golden Glass Technologies, Ltd.                   | Wujiang City,                        | 5258          | COMPOSITE       | (.035) (ip)(A)    | 125 U                         | A                     |
| 10-16+mm Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd | Hangzhou, Zhejiang, China            | 5233          | COMPOSITE       | (.030) (b)(A)     | 125 U                         | A                     |
| (H) Laminated Transparent Glass                                |                                      |               |                 |                   |                               |                       |
| 12+mm AGNORA (Architectural Glass North America)               | Collingwood, ON Canada               | 4886          | COMP+CAN        | (.030) (b)(A)     | 100 U                         | A                     |
| 12mm Aldora Aluminum and Glass Products, Inc.                  | Miramar, FL                          | 4789          | COMPOSITE       | (.090) (lu)(A)(6) | 285 U                         | A                     |
| 12+mm AVIC Sanxin Co. Ltd.                                     | Shenzhen, Guangdong, China           | 3573          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 12mm Classy Glass Specialties Co., Ltd                         | Dongguan, Guangdong                  | 5169          | COMPOSITE       | (.030) (b)(A)     | 200 U                         | A                     |
| 12mm Dolphin Glass Specialists, LLC                            | Hialeah, FL                          | 4729          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 12mm Future Architectural Glass LLC                            | Ras Al Khaimah, United Arab Emirates | 5117          | COMPOSITE       | (.060) (b)(A)     | 285 U                         | A                     |
| 12-16+mm Galaxy Glass & Stone                                  | Fairfield, NJ                        | 3661          | COMPOSITE       | (.060) (lu)(A)(6) | 100 U                         | A                     |
| 12-16+mm Glass and Mirror Craft                                | Wixom, MI                            | 4924          | COMP+CAN        | (.030) (ip)(A)    | 150 U                         | A                     |
| 12mm Global Security Glazing                                   | Selma, AL                            | 4770          | COMP+CAN        | (.060) (b)(A)     | 285 U                         | A                     |
| 12mm Kawneer - (Cranberry) a division of Alcoa                 | Cranberry Township, PA               | 2719          | COMPOSITE       | (.090) (b)(A)     | 100 U                         | A                     |
| 12mm McGrory Glass                                             | Paulsboro, NJ                        | 5263          | COMPOSITE       | (.015) (b)(A)     | 100 U                         | A                     |
| 12mm Nashville Tempered Glass LLC                              | Hendersonville, TN                   | 5231          | COMP+CAN        | (.035) (ip)(A)    | 285 U                         | A                     |
| 12mm Oldcastle BuildingEnvelope®                               | Houston, TX                          | 4401          | COMP+CAN        | (.090) (ip)(A)    | 175 U                         | A                     |
| 12mm Oldcastle BuildingEnvelope®                               | Hauppauge, NY                        | 5355          | COMP+CAN        | (.035) (ip)(A)    | 400 U                         | A                     |
| 12mm Oldcastle BuildingEnvelope®                               | Tampa, FL                            | 5051          | COMP+CAN        | (.035) (ip)(A)    | 285 U                         | A                     |
| 12mm Taiwan Glass Industry Corp.                               | Taipei, Taiwan, China                | 3893          | COMPOSITE       | (.015) (b)(A)     | 750 U                         | A                     |
| 12mm Tianjin CSG Energy Conservation Glass Co., Ltd            | Tianjin, China                       | 4107          | COMPOSITE       | (.060) (b)(A)     | 100 U                         | A                     |
| 12mm Trulite Glass and Aluminum Solutions                      | Houston, TX                          | 4667          | COMPOSITE       | (.030) (b)(A)     | 175 U                         | A                     |
| 12mm Viracon Inc.                                              | Statesboro, GA                       | 4784          | COMP+CAN        | (.090) (ip)(A)    | 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>(H) Laminated Transparent Glass</i>                 |                                      |               |                 |                   |                               |                       |
| 12-16+mm Viracon Inc.                                  | Owatonna, MN                         | 4250          | COMP+CAN        | (.060) (ip)(A)    | 150 U                         | A                     |
| 12mm Virginia Glass Products Corp.                     | Martinsville, VA                     | 5383          | COMPOSITE       | (.030) (ev)(A)    | 100 U                         | A                     |
| 12mm Virginia Glass Products Corp.                     | Martinsville, VA                     | 5194          | COMPOSITE       | (.060) (ip)(A)    | 100 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>                 |                                      |               |                 |                   |                               |                       |
| 16mm Dongguan Dongfa Glass Product Co., Ltd            | Dongguan, Guangdong, China           | 4124          | COMP+CAN        | (.030) (b)(A)     | 285 U                         | A                     |
| 16+mm Future Architectural Glass LLC                   | Ras Al Khaimah, United Arab Emirates | 5232          | COMPOSITE       | (.030) (b)(A)     | 285 U                         | A                     |
| 16+mm Guangdong Golden Glass Technologies              | Shantou, Guangdong, China            | 4723          | COMPOSITE       | (.015) (ip)(A)    | 125 U                         | A                     |
| 16+mm Hartung Glass Industries Lami                    | Langley, BC Canada                   | 4431          | COMPOSITE       | (.060) (ip)(A)    | 750 U                         | A                     |
| 16+mm Oldcastle BuildingEnvelope®                      | Langley, BC                          | 5215          | COMP+CAN        | (.035) (ip)(A)    | 750 U                         | A                     |
| 16+mm Tianjin CSG Energy Conservation Glass Co., Ltd   | Tianjin, China                       | 4108          | COMPOSITE       | (.090) (b)(A)     | 100 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>                 |                                      |               |                 |                   |                               |                       |
| 18+mm Tianjin Northglass Industrial Technical Co., Ltd | Tianjin, China                       | 5223          | COMPOSITE       | (.015) (ip)(A)    | 175 U                         | A                     |
| <i>(H) Laminated Transparent Glass</i>                 |                                      |               |                 |                   |                               |                       |
| 25+mm Classy Glass Specialties Co., Ltd                | Dongguan, Guangdong                  | 5170          | COMPOSITE       | (.060) (b)(A)     | 200 U                         | A                     |
| <b><u>Laminated Specialty Product</u></b>              |                                      |               |                 |                   |                               |                       |
| <i>(H) Laminated Specialty Product</i>                 |                                      |               |                 |                   |                               |                       |
| 8-12mm SAGE Electrochromics Inc.                       | Faribault, MN                        | 5016          | COMP+CAN        | (.030) (ip)(A)    | 150 U                         | A                     |
| <b><u>Laminated Patterned Glass</u></b>                |                                      |               |                 |                   |                               |                       |
| <i>(H) Laminated Patterned Glass</i>                   |                                      |               |                 |                   |                               |                       |
| 8-10mm PGT Industries                                  | Nokomis, FL                          | 4812          | COMPOSITE       | (.090) (s)(ip)(A) | 285 U                         | A                     |
| 8-10mm PGT Industries                                  | Nokomis, FL                          | 4801          | COMPOSITE       | (.060) (s)(b)(A)  | 285 U                         | A                     |

**SGCC® APPROVED TESTING LABORATORIES APPROVED FOR TESTING IN  
THE ANSI, CPSC and CAN/CGSB CERTIFICATION PROGRAMS**

|                                                                                                                                                                                                                                                                                                                                                                         |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                            |
|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <b>100 - Architectural Testing, Inc. (ATI)</b><br>130 Derry Court<br>York, PA 17406<br>Attn: Mr. Christian Lapadat<br>Phone: (717) 764-7700<br>Fax: (717) 764-4129<br>Email: CLapadat@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: Ian McKenzie or Jacques Johnson<br>Phone: (770) 941-6916<br>Fax: (770) 941-2930<br>Email: imckenzie@archtest.com<br>Email: jrjohnson@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>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: Vicki Appora<br>Phone: (937) 236-8805<br>Fax: (937) 237-9947<br>Email: vappora@bowser-morner.com                                                                                                                                                                                 | <b>250 - Construction Consulting<br/>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: jack@ccl-west.com                               | <b>285- Fenestration Testing<br/>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@ftl-inc.com                                                          |
| <b>400 - Intertek</b><br>75 Clinton Avenue<br>Cortland, NY 13045-0950<br>Attn: Brian Bishop or Jim Diescher<br>Phone: (607) 753-6711<br>Fax: (607) 758-6503<br>Email: brian.bishop@intertek.com<br>Email: james.diescher@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>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                                                                                                                                                                                           | <b>800 - NCTL</b><br>5 Leigh Dr.<br>York, PA 17406<br>Attn: Amy Becker<br>Phone: (717) 846-1200<br>Fax: (717) 767-4100<br>Email: abecker@nctlinc.com                                                                                           | <b>900 - Rone Engineering Services,<br/>Ltd</b><br>8908 Ambassador Row<br>Dallas, TX 75247<br>Attn: John Moody<br>Phone: (214) 630-9745<br>Fax: (214) 630-9819<br>Email: jmoody@roneengineers.com                                                          |
| <p align="center">The ID of the Laboratory used for testing of each product is provided in the Certified Products "By Product Type" of this Certified Products Directory. <b>Please note:</b> For initial certification of prototype samples, the manufacturer pays the laboratory directly for testing and must contact the laboratory for prototype testing fees.</p> |                                                                                                                                                                                                                                                |                                                                                                                                                                                                                                                            |