



safety glazing certification council

July 2023

certified products directory  
safety glazing material used in buildings  
visit our website @ [sgcc.org](http://sgcc.org)



# SGCC® 2023 Fall Certification

## Committee Meeting

September 12<sup>th</sup> – 13<sup>th</sup>, 2023



### Paris Hotel & Casino

3655 Las Vegas Blvd. South

Las Vegas, NV 89109

Phone: 1-877-796-2096

**Hotel Reservations:** The room rate is \$190 plus tax/resort fee per night. To reserve online, click [here](#). If you prefer to make Reservations by phone, please contact SGCC directly for assistance to avoid additional fees. Hotel reservations and an RSVP to the SGCC office ([sgcc@amscert.com](mailto:sgcc@amscert.com)) must be completed by **August 12, 2023**.

*Transportation: The hotel is located 6 miles from Harry Reid International Airport (LAS). Average transportation costs are estimated at \$20-\$30. Click here for more [taxi](#) & [ride share](#) options.*

### Tentative Meeting Schedule

#### **Monday, September 11, 2023**

6:30 - 8:30 SGCC® Board of Directors Dinner - TBD \*Board Members & Guest only

#### **Tuesday, September 12, 2023**

7:30 - 8:00 Light Breakfast \*Board Members & Guest only

8:00 - 12:00 SGCC® Board of Directors Meeting & Lunch \*Board Members & Guest only

1:00 - 5:00 SGCC® Certification Committee Meeting

5:00 – 5:15 SGCC® Participants Meeting

6:00 - 7:30 Reception for Meeting Attendees & Guests

#### **Wednesday, September 13, 2023**

7:30 - 8:00 Light Breakfast Provided

8:00 - 12:00 SGCC® Certification Committee Meeting

If you experience any difficulties making a reservation or have any questions, please contact the SGCC office at 1-315-646-2234.

As always, we thank you, and look forward to seeing everyone in September!

July 2023

# Safety Glazing Certification Council Certified Products Directory (CPD)

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

"American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test: ANSI Z97.1-2015(R2020)"

Copies of ANSI Z97.1-2015(R2020) 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  
<https://webstore.ansi.org/SDO/GISC>

"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  
<https://www.reginfo.gov/public/jsp/eAgenda/GetPrintedCopies.myjsp>

---

**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**  
<https://www.sgcc.org/product-search/compliance-testing>

---

"National Standard of Canada - Tempered or Laminated Safety Glass CAN/CGSB 12.1-2022"

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  
[https://publications.gc.ca/collections/collection\\_2022/ongc-cgsb/P29-012-001-2022-eng.pdf](https://publications.gc.ca/collections/collection_2022/ongc-cgsb/P29-012-001-2022-eng.pdf)

---

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

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

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

Safety Glazing Certification Council © 2023

Table of Contents

ANSI Z97.1-2015(R2020)..... 1

CPSC 16 CFR 1201 ..... 1

CAN/CGSB 12.1-2022 ..... 1

Meetings of the Certification Committee..... 3

Roster..... 3

Accreditation ..... 5

Program Concept ..... 15

Procedural Guide ..... 17

Quality Assurance Program & Requirements..... 18

How the Certification Program Works ..... 19

Complaints and/or Appealing a Certified Product..... 20

What Does the Program Cost ..... 21

Certification Guidelines and Interpretations..... 23

Certification of Tempered Coated Glass ..... 27

Laminated Glass ..... 29

SGCC® Advertising Guidelines..... 34

SGCC® Label Requirements ..... 35

CPSC Act Labeling Requirements ..... 36

Certified Products Listing ..... 37

Certified Products Key..... 78

Classified Tempered Glass Patterns Key..... 79

SGCC® List of Accepted Interlayers ..... 81

SGCC® Approved Laboratories ..... 83

## MEETINGS OF THE CERTIFICATION COMMITTEE

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

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

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

### ADMINISTRATION

Administrative Management Systems, Inc. (AMS)  
PO Box 730  
205 West Main Street  
Sackets Harbor, New York 13685  
Telephone: 315-646-2234  
Fax: 315-646-2297  
E-mail: [SGCC@amscert.com](mailto:SGCC@amscert.com)  
Website: [www.sgcc.org](http://www.sgcc.org)

### ADMINISTRATIVE STAFF

John G. Kent, Administrative Manager	Kristin Best, Program Manager
Terry Schaefer, Administrative Manager	Sara Connor, Program Coordinator
Katrina Stafford, Technical Assistance	Tonya Schmitte, Program Coordinator
Kelly Jenness, Auditor Assignments	Lindsay Bova, Program Coordinator

## ROSTER SGCC® BOARD OF DIRECTORS

### SGCC® OFFICERS

President	Ms. June Willcott
Vice President	Mr. Rick Wright
Secretary	Mr. Jeff Haberer
Treasurer	Ms. Elaine S Rodman

### REPRESENTING PUBLIC INTEREST

**Mr. William Nugent**  
Wiss, Janney, Elstner Associates, Inc.  
330 Pfingsten Road  
Northbrook, IL 60062-2095  
Phone: (847) 272-7400  
Fax: (847) 291-9599

**Ms. June Willcott**  
Pointed Engineering, Inc.  
3355 NW 55<sup>th</sup> Street  
Ft. Lauderdale, FL 33309  
Phone: (954) 451-3302

**Mr. Patrick Loughran**  
Goettsch Partners, Architecture, Interiors, Planning, Enclosures  
224 South Michigan, Floor 17  
Chicago, IL 60604  
Phone: (312) 356-0600

**Ms. Elaine S. Rodman**  
2300 Sample Road  
Allison Park, PA 15101  
Phone: (412) 487-2887

**Mr. Peter Weismantle**  
Adrian Smith & Gordon Gill Architecture  
30 West Monroe, Suite 400  
Chicago, IL 60603  
Phone: (312) 870-4126  
Fax: (312) 920-1775

## REPRESENTING INDUSTRY

**Mr. Mark B. Cody**

Cardinal  
600 AFG Road  
Church Hill, TN 37642  
Phone: (423) 357-2494

**Mr. Jeff Haberer**

Trulite Glass & Aluminum Solutions, LLC  
1112 17th Avenue SE  
Minneapolis, MN 55414  
Phone: (612) 805-2251

**Mr. Rick Wright**

Oldcastle BuildingEnvelope®  
1273 N. Church Street, Suite 100A  
Moorestown, NJ 08057  
Phone: (856) 979-3622

**Mr. Mark Hutchinson**

Intigral  
7850 Northfield Road  
Walton Hills, OH 44146  
Phone: (440) 439-0980

**Mr. Brian Louks**

Viracon  
800 Park Drive  
Owatonna, MN 55060  
Phone: (507) 444-3233

## COMMUNICATIONS

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

**Ms. June Willcott, President**

SGCC® Board of Directors  
Pointed Engineering, Inc.  
3355 NW 55<sup>th</sup> Street  
Ft. Lauderdale, FL 33309  
Phone: (954) 451-3302

**Mr. Mark B. Cody, Chairman**

SGCC® Certification Committee  
Cardinal  
600 AFG Road  
Church Hill, TN 37642  
Phone: (423) 357-2494

**Mr. John G. Kent**

Administrative Manager  
Administrative Management Systems, Inc. (AMS)  
P.O. Box 730  
205 W. Main Street  
Sackets Harbor, NY 13685  
Phone: (315) 646-2234  
Fax: (315) 646-2297

**Mr. Terry Schaefer**

Administrative Manager  
Administrative Management Systems, Inc. (AMS)  
P.O. Box 730  
205 W. Main Street  
Sackets Harbor, NY 13685  
Phone: (315) 646-2234  
Fax: (315) 646-2297

## LEGAL COUNSEL

**Mr. David P. McHugh**

ArentFox Schiff LLP  
233 S. Wacker Drive, Suite 7100  
Chicago, IL 60606  
Phone: (312) 258-5668  
Fax: (312) 258-5600

## FINANCIAL AUDITOR

**Mr. Robert Stackel & Mr. Jacob Navarra**

Stackel & Navarra, CPA, PC  
216 Washington St. Suite 402  
Watertown, NY 13601  
Phone: (315) 782-1220  
Fax: (315) 782-0118



## ACCREDITATION

In 2016 the American National Standards Institute (ANSI) issued ISO/IEC 17065 Accreditation to the SGCC® Certification Program and AMS, Inc., the program Administrator and Certification Body (CB). This Accreditation is a formal recognition of fulfilling the requirements of the ISO/IEC 17065:2012 standard, as well as ANSI's own accreditation requirements.

### What is Accreditation?

Accreditation is similar to certification. Just like in certification there is an independent party who assesses and determines whether or not an organization meets specific requirements. In the case of ANSI's assessment of the SGCC® Certification Program and AMS, Inc., they were assessed to ISO standard ISO/IEC 17065:2012. The end result is called accreditation.

### Who is ANSI?

The American National Standards Institute is a not-for-profit entity providing assessment and accreditation of bodies performing third-party conformity assessment (certification), among other services. ANSI also brings global recognition to conformity assessment through several international and regional arrangements for multi-lateral recognition, including the International Accreditation Forum (IAF). In addition, ANSI has a memorandum of understanding (MoU) with the Standards Council of Canada (SCC). All of this helps bring global acknowledgement to conformity assessment.

Information from: *ansica.org*, Why Seek Accreditation?, 2015. Web. August 19, 2015.

### What is ISO/IEC 17065:2012?

ISO/IEC 17065:2012 is an internationally-recognized standard for bodies certifying products, processes and services. It is the main source of criteria used to assess the SGCC® Certification Program and AMS, Inc. The standard specifies requirements that, according to ISO/IEC 17065:2012, "ensure that certification bodies operate certification programs in a competent, consistent and impartial manner...".

### How will this affect my Certification?

Accreditation of the SGCC® Certification Program and AMS, Inc. is the formal recognition that they have met strict requirements placed on them. This means that as a manufacturer, operator, or provider of certified products, you can be sure that the SGCC® Certification Program is operated to some of the highest quality standards in the world. Because the SGCC® Certification Program and AMS, Inc. have always followed stringent guidelines there will be minimal changes to the certification program. When changes are necessary though, you will be notified in advance.

Though the SGCC® Certification Program requirements won't change much due to the accreditation, it does offer an opportunity for manufacturers to show conformance to an ANSI-Accredited certification program, an invaluable association to set you apart in the market. For more information, and restrictions and limitations, please contact AMS, Inc.

### Disclaimers

While there are significant benefits to being associated with this accreditation, accreditation doesn't mean that ANSI approves certified products, processes, or services of Licensees. In addition, the ANSI Accreditation symbol and ANSI logo are not permitted to be displayed on any product or its packaging.

### Questions or Want to Learn More?

If you have any questions or need additional information regarding any of the topics presented above, please feel free to contact AMS, Inc. at (315) 646-2234, or email us at [staff@amscert.com](mailto:staff@amscert.com).

*SGCC Certification Committee*

<b>Licensee</b>	<b>Primary Member</b>	<b>First Alternate</b>	<b>Second Alternate</b>
24 Hour Thermal Glass Insulated Ltd.	Galo Narvaez		
3 Form	Kenny McCutcheon		
8044554 Canada Inc.	Sandy Martin	Chris Gerrard	
A.N. ALODAN & SONS CO. GLASS & ALUMINIUM	Dhanraj Singgh Parmar	Rakesh Kumar Pal	
A3 Glass Fabricator LLC	Abbas Hussain	Yousuf Halai	
AAG-AI Abbar Architectural Glass	Mohammad Asif Ali		
Accurate Glass Products	Gus Fotopoulos	Gin Benner	
Ace Safety Glass Co., Ltd.	Jeong Haeyou		
Acme Glass LTD.	Sandeep Kaur	Herman Sahota	
Advanced Design Manufacturing	David Murry		
Advanced Impact Technologies	Jeff Besse	Ralph Henson	
Advantage Glass Corp	Stan Rydzewski	Rony Gramajo	
AdvanTec	Kent Lundin	Shaun Kumar	
AGNORA LTD	Jeff Wilkins		
Air Master (Valmeg, LLC)	Manuel Calzada	Antonio Suarez	
AJJ Glass Products Co., Ltd	Lyon Ye		
Al Andalus Glass Factory Co.	Ahmad Arafa	Bashar Taleb	
Aldora Aluminum and Glass Products, Inc.	Manny Valladares		
All Counties Glass Distributors	Dane Treiber		
All Team Glass & Mirror, Ltd.	Mark Timoll	Jamal Rahaman	
Allglass Tempering Inc.	Mariusz Lojowski		
Aluminum Manufacturers Co. Ltd - ALUMATEC	Wassim Hashash		
Aluminum Technology Auxiliary Industries	Suraj Thampi		
American Glass Tempering and Fabricators, Inc.	Irene P Lopez	Mario Lopez	
American Insulated Glass LLC.	Clint Blair	Shane Ellerbee	
Amsco Windows	Joe Jonely		
Anhui Xinrongda Glass Co., Ltd.	Xiong Jingshi	Lisa Zhu	
AntCam Cam Pazarlama San. Ve Tic. A.S.	Egemen Ozkaya	Elcin Batmazoglu	
Anthony International	Kathleen Holst	Don Sokol	
Architectural Glass Products, LLC.	Sharon Gambill		
ArcTech Glass Ltd.	Diana Wang	Qingbao Huang	
Arino Duglass, S.A.	Raimundo Garcia-Figueras	Miguel Mateo	
Arlene Stained Glass & Door	Charlie Hoelscher	Jeff Weber	
Arrow Mirror & Glass, Inc.	Brandon Michalak	Jason Ziemak	
ArtVue Glass	John Tagle	Karen Tagle	
Ascent Glass Products (Zhong Shan) Limited	Andy Zhu	Lily Fu	
ATI Windows	Stephen Schwartz		
Basco Engineered Products	Dale Schmidt	Gary Brown	
Beijing NorthTech Haiyangshunda Glass Ltd.	Kun Wang		
Beijing Wuhuatianbao Glass Co., Ltd.	Gao Hongwei		
Bel Pre Glassworks Inc.	Jeffrey James		
Bel Shower Door Corporation	Bill Sain	Ryan Sain	Bill Folino
Bendheim Wall Systems	Robert Jayson	Michael Tryon	
BG Glass Technologies Inc.	John Barber	Amber Simon	
Blackline Aluminum Systems	Ellie Salehi	Mohammad Ghadaki	
Blue Star Glass Inc.	Alex Oanono		
Bronco Industries, Inc.	Bronson Lam	Annie Lam	
BVGLAZING SYSTEMS	Mike Morgan		
C&C Custom Glass & Tempering, LLC	Clark Robinson		
Cameron Glass, LLC.	John Alajaji	Troy Gillion	Shane Baker
Camyapi Cam Paz. Ins. Taah. Tic.ve San. Ltd. Sti	Volkan Erem	Birrol Yiliz	
Cardinal IG	Michelle Phan	Robert Grommesh	
Carey Glass UC	Michael Carew		
Cat-I Manufacturing, Inc.	Ryan O'Connell	Travis Jaynes	
Central Florida Glass & Mirror, Inc	Chelsie Maddox-Larsen	Derek Maddox	
Central Valley Glass & Screen, Inc.	Vincent Crouson	Geoff Smith	
CGMI Acquisition Company LLC dba Clearlight Glass	William Calhoun	Ken Hurley	



*SGCC Certification Committee*

<b>Licensee</b>	<b>Primary Member</b>	<b>First Alternate</b>	<b>Second Alternate</b>
Changshu Fardglass Co. Ltd.	Jiang Wei		
ChangShu Maybo Glass Co., Ltd.	Qian Lan		
Changshu Mingyang Glass Products Co., Ltd.	Steven Shung		
Changshu Weier Glass Products Co. Ltd.	Denise Weier	Denise Lu	
Changshu Xingfu Glass Building Material Co., LTD	Zhong Chun		
Changshu ZhongXin Building Materials Co., Ltd.	Lisa Lee		
Changshu Zhouxing Craft Glass Factory	Xiaodong Qian		
Chicago Tempered Glass, Inc.	Adam Kaczynski		
Chongqing SYP Engineering Glass Co., Ltd.	Sun Dahai		
Ciraylar Cam Insaat Malzemeleri San. VE TIC. A.S.	Mehmet Emre Aslan	Yasemin Ipek	
Clear Lite DBA Innovative Glass Products LLC	Scott Sherwin		
Cleer Vision Tempered Glass	Tim Widner		
Clinton Glass Company	Kim Stowell	Gregory Stowell	
Colorkote CT, LLC	Douglas Schulman		
Comercial Dialum SA	Oscar Zavala	Reynaldo Delgado	
Commercial Insulating Glass Co.	Tom Willey	Secena Zurawski	
Compagnie de Portes Énergétique EDC	Vincent Cormier	Nancy Payette	
Complete Line Glass Wholesalers, Inc.	Rod Pistokache		
Consolidated Glass Corp.	Shane Merryman	Louis Merryman	
Contour Industries, Inc.	Geoffrey Davis	David Tomlinson	
Contractors Wardrobe	Jack Violante		
Control Glass, A&S, S.L.	Alvaro Del Rio	Alicia Rosa Moraleda	
Coral Industries Glass Division	Eric Fleming	Lance Hammond	
Cristacurva	Jose Israel Perea S.		
Crystal Tempering, Inc.	Claudina Suarez	Luis Gomez	
CS ECO Glass (M) Sdn Bhd	Zhang Xiaojun		
Curved Glass Creations, LLC	Walter Kuenzle	Rosemarie Kuenzle	
Custom Glass Products Inc.	Eric Reeder		
D3 Glass, LLC	Doug Daubmann		
Dalian Huaying Glass Limited Liability Co.	Stephanie Shi		
Dallas Flat Glass Distributors, Inc.	Tom Holman		
Denver Glass Interiors, Inc.	David Uhey		
Deqing Sanxing Plastic Chemical Co. Ltd.	Yang Min		
Diamond Glass	James Crumlish	Darren Nevin	
Dillmeier Enterprise, Inc.	Cody Tran		
Dios (Tianjin) Industrial Limited Company	Grace Xue		
Dolphin Glass Specialists, LLC	Jose Prieto	Maria Prieto	
DongGuan CSG Architectural Glass Co., Ltd.	Yu GuangHui		
Dongguan Dongfa Chuangfu Special Glass	Shenwen Li		
Dost Cam Sanayi ve Ticaret A.S.	Cagdas Ozdemir	CaGlar Ozdemir	
Double Seal Insulating Glass Ltd.	Mo Balasubramaniam		
Downey Glass	Hugh Higgins		
Echols Glass and Mirror, Inc.	Ron Echols		
ECO Glass Production	Samuel Bravo	Jeanie Gutierrez	
Edge Tempering	Renildo Orduna		
EFCO Corporation	Tim Fikkert		
EliVate America Corporation	YiZeng LI	Fransue Morales	
Engineered Glass Products, L.L.C.	David Coulombe		
Epta S.P.A.	Andrea Facchin	Giuseppe Roveda	
Erdem Dis Ticaret A.S.	Mehmet Ali OZGUL	Yavuz Selim Bodur	
Express Impact Manufacturing	Yaniet Santos	Yiset Merino	
Extrusiones de Aluminio, S.A.	Jaime A Salas	Hellen Solano	
Fairis C.A.	Jorge Jaramillo		
FG Glass Industries Pvt Ltd.	Tariq Kachwala	Rohit Chavan	
Flat Glass Distributors, Inc.	Doug Lewis		
Flat Glass Group Co., Ltd.	David Wei	Gao Feng	
Foshan Douglas Glass Technology Co., LTD.	Li Aichen	Xiong Pu	

*SGCC Certification Committee*

<b>Licensee</b>	<b>Primary Member</b>	<b>First Alternate</b>	<b>Second Alternate</b>
Foshan Gaoming Yaqi Toughened Glass	Chen Liangwen		
Foshan Jingyi Tempered Glass Co., LTD.	Xie Xinhua	Yuan Huijuan	
Foshan Nanhai Nengyang Electrical Technology Co.,	Wang Ming Hua	Wang Min	
Foshan Nanhai Ruixin Glass Co., LTD.	Frank Guo		
Foshan Nanhai Yaoxiang Glass Product Co. Ltd.	Mai Yao Dong		
Fountain Glass Inc.	Anthony de le Fuente	Julie A Kessler	
Fujian Chengda Glass Co., Ltd	Wendy Chen Wei	Teresa Lin Bishan	
Fujian Tider Glass Co., Ltd.	Wendy Zhong	Kun Wei	
Fujian Xihe Sanitary Ware Technology Co., Ltd	Hunter Hao		
Futureguard Building Products	Jeff Purcell	Brian Buteau	
Fuzhou Autran Industrial Co., Ltd.	Allen Tang	Sunny Zhang	
G.E. Silliker & Sons Ltd.	Terry Arsenault		
Galaxy Glass & Stone	Eugene Negrin	John O'Keefe	
Garibaldi Glass Ind. Inc.	Liviu Bocsanu	Nick Meissner	
Gemtron Canada Corporation	Bill Bartlett	Bruce Busch	
Gemtron Corporation	Beena Walker	Jack Francis	
General Glass	Greg Bakken		
GGI Glass Distributors Corp.	Christina Antunes	David S. Balik	
Gin Jye Ming Glass Co., Ltd.	Lio Chang	Shih, Chin-Liang	
GLAAM Co., Ltd.	Yong Woong, Lee		
GLASPRO	Rafael Perez		
Glass and Mirror Craft	Larry Abramowski		
Glass Design of Miami, Inc.	Mauricio Alonso		
Glass Enterprises Inc.	Joshua Burg		
Glass Group & Seal Inc	Luis Deda	Florenc Duro	
Glass Insulators Inc.	Mandi Marik	Travis Libbey	
Glass Laminate Solutions	Jose Ramos		
Glassbel Baltic JSC	Romas Zvirzginas		
Glassfab Tempering Services Canada	Sunny Chalal	Charanpreet Singh	
GlassFab Tempering Services, Inc.	Brian Frea		
Glasstech Industries B.S.C.	Marwan Khadij	Hemraj Arya	
GlassTemp, Inc.	Bob Becker	Hector Arrieta	
Glasswerks LA, Inc.	Robert Mastrapa		
Glaz-Tech Industries, Inc.	Alex Miramontez		
Glenny Glass Co.	Braxton Smith		
Global Exchange Connection LLC T/A Dulles Glass	Ali Guney		
Global Security Glazing	Mark Johnson		
GnT Glass Co., Ltd.	Hao Bing Tian		
Goldray Industries Ltd.	Cathie Saroka	Mike Saroka	
Great Day Improvements, LLC	Kent Nusser	Craig Cox	
Griffin Glass & Metal Werks, Inc.	John Metz		
Grupo Vidrios el Castillo	Carlos Benet Trad	Gabriel Howerton	
Guangdong Haikong Special Glass Technology Co.,	Wang Jinlin	Sven Pan	
Guangdong Honghua Glass Technology Co., LTD.	Wang Feng	Lin Xiaolei	
Guangdong Rosery Bath Science and Technology	Fengqiang Wang	Qin Wang	
Guangdong South Star Glass Limited	Taylor Lee	Jie WU	
Guardian Glass, LLC - Auburn	John Arambula	Wayne Griffin	
Gulf Glass Industries, Co. LTD	Samih Fatayerji	Pascoal Dsilva	
Hangzhou Blue-Sky Safety Glass Co., Ltd.	Qiu Lifeng	Wang Dewu	
Haojing Holdings Group Limited	An Jishen		
Hartung Glass Industries	Nick David Sciola	Alex Mihalek	
HI Craftmanship Glass	Brian Zhang	Jan Yi	
Hoskin & Muir, Inc.	Jared Ross	George Rufra	
Huahui Glass (China) Co., Ltd.	Lynn Chang	Reis Li	
Illumimex S.A. DE C.V.	Fernando Nocua Ruge	Ramon Olazaran Medrano	
Imagic Glass Inc.	Vilius Garsva	Adam Shearer	
Industrial Tempering Glass	Alexander Weinberger		

*SGCC Certification Committee*

<b>Licensee</b>	<b>Primary Member</b>	<b>First Alternate</b>	<b>Second Alternate</b>
Inkan Ltd	Kevin Duke	Tom Duke	
Insulite Glass Co., Inc.	Larry Vasholz		
Integral Seal Mfg. Inc.	Ben Nayot		
Integrity Glass Tempering, LLC.	Ebbie Mogford		
Inter Fonction Ltee	Johanne Tousignant	Ian Tardif	
Intigral	Mark Hutchinson	Adina Dobre	
Isam M. Khairi Kabbani Glass Works LLC	Mark Ruzzel Taruc	Donald Cardenas	
Isoclima Specialty Glass, LLC	David Bazzano	Chris Cotton	
ITI Glass Company	David Wickham	Kevin Stauffer	
J&Y Glass Services	Jorge Caceres	Yuri Rabeiro	
J.C. Moag Corporation	Cameron Moag	Alex Acevedo	
JAR Tempering Inc.	Josei Ramos		
Jiangmen Jianghai Jin Ying Tempered Glass Ltd.	Christine Wu	Rounder Chen	
Jiangmen Junfa Safety Glass Co., Ltd.	Xiaodan Li	Jian Peng	
Jiangsu Chungue Glass Co., Ltd.	Song Congcong	Shi Zhongyue	
Jiangyin Mingyang Glass Production	Wang Lijuan		
Jinzhou Fortune Spring Glass Co., Ltd.	Li Ma	Pengtao Zhang	
JM Glass	Mayreni Morales	Jose Morales	
Jubilee Company	Rick Buff	David Buff	
JYC Glass Co. Ltd.	Li Xiang Sheng		
KAMRI Investments Limited	Kameel Khan	Fareez Khan	
Kensington Glass Arts	David Stone		
Kinestral Technologies	Howard Bergh	Gregg Higashi	
Kohler Company	Matt Wright	Doug Glisson	Buddy Thompson
Krystalla Vasiliou LTD (VasGlass)	Giannis Nikolias		
La Tecnica Nel Vetro SpA	Michele Inserra	Roberta Sammarco	
Laurier Architectural	Guillaume Jacob	David Levesque	
Legacy Glass	Lance Hamilton	Josh Muniz	
Les Verres VMIK Inc.	Richard Parent	William Néron	
Lien Yeu Glasstech (M) SDN BHD	Zou Xiangjun		
Lippert Components	Kevin Slagle	Bharat Bhat	
LongDing Glass Production Co., Ltd.	Zhang Zhixiang	Ann Gong	
LTI Smart Glass, Inc.	Christoper Kapiloff		
Luoyang LandGlass Technology Co., LTD	Yanbing Li		
M Industria S.A. DE C.V.	Mauricio Millet Medina	Juan Polanco	Ricardo Tonueyo
M&M Tempering Inc.	Joseph L. Stevens	Jenny Stevens	
M3 Glass Technologies	Chris Mammen		
Majestic Glass Inc.	Maikel Barrios		
Making Glass North America Inc.	Malcolm Jacobs	Carsten Hovelmann	
Manko Window Systems- CO	Matthew Hoyt		
Manko Window Systems- IA	Kevin Tyson		
Manko Window Systems- KS	Kevin Dix		
Maryland Glass & Mirror	Matthew Dalbke		
Maxividrio S.De R. L. de C.V.	Alain Bravo Rodriguez	Carolina Munoz Rodriguez	
McGrory Glass	Gary McGrory		
Mercer Glass Fab LLC	Don Bielawski		
Mid-American Glass, Inc.	Michelle Magyar		
Midwest Glass Fabricators Inc.	Patrick Iaquinto		
Milkana OOD	Krasimir Tanchev	Kaloyan Bedzhev	
Mirror Works Inc.	Nermin Berbic	Taylor Thibert	
Mr. Glass Tempering, LLC	Robert Liao	Raymond Gao	
Multiver Ltee	Martin Cormier	Annie Cormier	
Nanjing Feitian Varo Glass Product Co., Ltd.	Li Qiqi	Zhou Xiaojun	
Nashville Tempered Glass Corp.	Scott Scheffield	Richard Paschel	
Naverra	Scott Corsaro	Lillian Audiffred	
New Angle Beveling	Marc Martell		
New Century Glass & Aluminum LLC	Jason Cao		

*SGCC Certification Committee*

<b>Licensee</b>	<b>Primary Member</b>	<b>First Alternate</b>	<b>Second Alternate</b>
Ningbo Runner Industrial Corporation	Vicky Chen	Jianquan Zhang	
Ningbo Xinxin Glass Technology Co., Ltd	Jessee Wu		
Niskayuna Glass	Mark Maslanka	Michael Rausch	
Nissink Business Glass BV	Robert Nissink	Esther vd Berg	
NOLA Showers, L.L.C.	Brian Laborde		
Norfinch Glass & Mirror Mfg. Ltd.	Barrington Timoll	Henry Pham	
Northeast Building Products	Buddy Grater	Leonard Ford	
Northwestern Glass Fab	Stan Muriska		
Northwestern Industries, Inc- Yuma, AZ	John Butler		
Novatech Canada Inc.	Nadine Tardif		
Novavetro S.r.l.	Cristiano Lucentini	Giuliano Toniolo	
NY Tempering LLC	Haidong Weng		
Oldcastle BuildingEnvelope®	Rick Wright	James Jensen	
Onyx Solar Energy, S.L.	Alvaro Beltran		
Opulux Glass	Mubeen Aslam		
P&C Tempered Glass, LLC.	Arnaldo Cruz Gonzales	Els0 Perez Sotolongo	
PA Glass Inc.	Hui Lin	Wen Wang	
Panasonic Housing Solutions Co., Ltd.	Takeshi Kimura	Hiyoruki Tsuboyama	
Pan-Dur Glass GmbH	Nadine Weiß		
Panoramic Doors LLC	Brett Chamberlin	Aaron Miller	
Paragon Tempered Glass	Barry DeLong	Chris Walker	
Patriot Armored Systems, LLC	Michael Biancolo		
Perficom S.A. DE C.V.	Enrique Presa		
PFG Glass Industries	Steve Nielsen		
PGT Industries	Rod Hershberger		
Philly Glass Industry Inc.	Danny Zhu	Ben Zhu	
Pingdingshan Youbo Glass Technology Co., Ltd.	Zhao Zhenguo	Luo Qiaoliang	
Portland Glass Manufacturing	Dave Campbell		
Precision Glass Bending Corporation	Russell Alder		
Precision Glass Industries	Kevin Waller	Lance Hamilton	
Prelco Inc.	Stephane Mercier		
Prelco MTL Inc.	Nancy Stuart	Jocelyn Ouellet	
Premier Glass Products	Seth Jones		
PRESS GLASS SP ZOO	Adam Wierzbowski		
Press Glass, Inc.	Conrad Lankford	Mike Lankford	
PRL Glass Systems	Ruben Gallegos		
Productora y Distribuidora de Espejos S.A. de C.V.	Jose Natividad Gonzalez		
Produits Verriers International Inc.	Victor Scherer		
ProTemp Glass, Inc.	Silvio Tuffolo	Vee Shivprasad	
Przedsiębiorstwo Prywatne Rezal	Michal Aleksandrowicz	Magdalena Pisera	
PT Abebersa Pratama	Mahud Halim		
Pulp Studio, Inc.	Bernard Lax		
Qianse Acrylic Co., LTD.	Spring Liang		
Qingdao Apis Glass Industries Co. Ltd.	Zhang Li		
Qingdao Glorious Future Energy-saving Glass Co.,Ltd.	Liang Wang	Frank Jia	
Qingdao Ideal Building Material Co. Ltd.	Yan Feng		
Qingdao Kingdom Glass Co., Ltd.	Tina Gu	Yanmin Yu	
Qingdao Laurel Glass Technology Co., Ltd	Bruce Jia		
Qingdao Pioneer Glass Co.,Ltd.	Xu Baowei	Chen Lei	
Qingdao Runya Glass Products Co., LTD	Amy Guo	Alice Cao	
Qinhuangdao Ampac Building Products Co., Ltd.	Gwang H. Park		
Qinhuangdao Huaguang Technology Glass Co., Ltd.	Tina Yang	Jiancheng Sun	
Qinhuangdao Jingxin Glass Co., Ltd.	Dongsheng Yan	Cindy Sun	
Qinhuangdao Mingjingyuan Safety Technology Glass	Gavin Pan		
Qinhuangdao Qicaishi Glass Processing Co., Ltd.	Linda Qin	Cindy Sun	
Qinhuangdao Rongsheng Glass Processing Co., Ltd.	Cheng Na		
Qinhuangdao Shengrui Glass Processing CO., LTD.	Sanbao Chen	Cui Liu	

*SGCC Certification Committee*

<b>Licensee</b>	<b>Primary Member</b>	<b>First Alternate</b>	<b>Second Alternate</b>
QinHuangDao Tianrui Tempered Technology Glass	YanJun Zhu	Zhu YanJun	Cheng Yi Bin
Qinhuangdao Yaoyou Engineering Glass Co., LTD.	Yan Jun	Wang Jianbing	
Quaker Window Products, Inc.	Curtis Weavers		
Quality Enclosures Tempering, Inc.	Marvin Aguilar		
Quality Enclosures, Inc.	Michael Schwartz		
Quality Glass & Mirror, Inc.	Tom Markowski		
Quest USA, Inc.	Joe Kuykendall	Charles Burt	
Quest Window Systems	Daniel Zalzman		
R&R Insulated Glass Products D.B.A. Aurora Windows	Ery Hernandez	Selena Hernandez	
Ready Glass & Mirror, Inc.	Silverio Perez		
Reem Emirates Aluminum & Glass	Hamed Hussein		
Renin Canada Corp.	Shervin Shahriari	Mardi Huelsekopf	
Resman Glass PVC Aluminum SAN. VE TIC. A.S.	Buse Duygu Dagidir	Burak Koprulu	
Rider Glass Company Limited	Luis Liu	Simon Li	
Rizhao Huaye Glass Co., Ltd.	Alex Yin	Grant Lee	
Robover Inc.	Tommy Fortier	Alain Fortin	
Rohden Vidros LTDA	Edilene Kniess	Lenuir Kniess	
SAAND Inc.	Paul Ferguson	Steve Callahan	
Sado Germany Window JSC	Nguyen Thi Nga		
Safti First	Sean Ross	Josh Bascue	
SAGE Electrochromics Inc.	Chuck Hayes	Dianne Dahl	
Saint Gobain Mexico, S.A. de C.V.	Alberto Boix	Gladys Rios	
Saudi American Glass Company	Geoff Sparks		
Senneca Holdings Inc, (Thermoseal Brand)	Joseph Sokalski		
Sfera SRL	Vianello Elio		
SGC International Inc.	James Huang		
SGP Acquisition Inc. (Specialty Glass Products)	Patrick Bloom	Richard Merdzinski	
Shandong Jinjing Science & Technology Stock Co.,	Huanqing Zhang	Xu Ping	
Shandong Kingtom Glass Co., Ltd.	Tao Zhenmin		
Shandong Taishan Huayue Glass Co., Ltd.	Gao Hu	Liu Fan	
Shandong Yaohua Glass Co., Ltd.	James Hu		
Shanghai Bordy Decoration Materials Co., Ltd.	Xie Zhengchun		
Shanghai Jiajie Glass Co., Ltd.	Li Hongzhen	Matt Wang	
Shanghai Yaohua Pilkington Glass Group Co., Ltd.	Dr. Sun Da Hai		
Shanghai Zhenzhen Glassware Co., LTD.	Brian Y. L. Chong		
Shape Glass LLC.	Brian Bradford		
Shenzhen Shennanyi Glass Product Co., Ltd	Sophie Lee		
Shenzhen Sun Global Glass Co., Limited	Zhang Guanghui		
Shower Doors & More Inc.	Page Giacin	Larry Giacin	
Sichuan CSG Energy Conservation Glass Co., Ltd.	Liu Song		
Sierra Glass Fabrication Inc.	Jack Baum		
SIGCO, Inc.	David A. McElhinny	Matthew Dunn	
Simonton Windows	Tina Seese	Steven Saffell	
Sisecam Flat Glass Italy S.r.l.	Antonio Santoro		
Sky Land Tempering Glass Corp	Ricky Zeng		
Skyline Design	David Wildfield		
Soluciones Arquitectonicas, S.A. De C.V.	Pablo Andres Rishmawi C.	Marco Ivan Mendoza R	
Soluciones Vitro Plano S.A. de C.V.	Alberto Vilchis Trujillo		
South Bay Showers, Inc.	Michael Sutton		
Southern Wholesale Glass	Mark Michael		
Splendor Shower Door	John Wanamaker	Tom Wanamaker	
Standard Bent Glass	Denise Swigart		
Star Glass Tempering LLC	Grzegorz Putek	Monika Putek	
Stargrup Cam A.S.	Ali Nurman		
Strong Tempering Glass Industry LLC	Mark Chen		
Sunfire Glass, Inc.	Dennys Fernandez		
Sunglas Technics Co., Ltd.	Zhao Jianxin	Steven Shung	

*SGCC Certification Committee*

<b>Licensee</b>	<b>Primary Member</b>	<b>First Alternate</b>	<b>Second Alternate</b>
Swift Glass Co., Inc.	Daniel J. Burke	Kathleen B. Schweizer	Charles Burke
Synergy Energy Saving Glass (Tianjin) Co., Ltd.	Zhai Tao	Hou Yuzhi	
Syracuse Glass Company, LLC	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		
Technical Glass Company	Engr Mousa El Gedaily	Engr Ahmad Tawalbeh	
Techni-Glass LLC	Pat Murphy	Jason Hooven	
Tecnoglass S.A.S.	Christian Daes	Diana Lohrer	
Tecnovidrio S.A. de C.V.	Ricardo Aguilar Martinez	Sara Ivonne Penaloza Ruiz	
TEMCOR S. DE RL DE CV	Genaro Cortez		
Temp Glass Inc.	Sigfrido Martinez		
Tempco Glass and Fabrication, LLC	Michelle Pascal		
Tempered Glass Industries, INC.	Robert Whitlow Jr		
Templados Del Centro SA DE C.V.	Omar Rios	Fernanda Garcia	
Templados Industriales S.A. de C.V.	Pedro Chavez	Diana González	
TG Qingdao Glass Co., Ltd.	Albert Wang	Judy Li	
TG Taicang Architectural Glass Co. Ltd	Melody Bi		
TG Tianjin Glass Co., LTD	Zhengyue Wang	Jing Zhang	
The Glass Factory, LLC	Juan Carlos Isasi	Homero Tapia	
The Glass Guild Ltd.	Sarah Cantrill	Stuart Cantrill	
Thermaxfix A.J. Inc.	Francois Ouellette		
Thermal Seal Insulating Glass	Ann Oliveira		
Thermalsun Glass Products	Brad Kloes		
Thermo BSL	Pierre-Luc Bellavance	Claude Pelletier	
Thompson I.G. , LLC.	Dale Houck		
Tianjin CSG Energy Conservation Glass Co., LTD	Zaida Liu		
Tianjin Northglass Industrial Technical Co., Ltd.	Zhang Xue	Anna Wu	
Tomakk Glass Partners, LLC	Clay Hargett	Scott Hoffman	
Treaty City Industries Inc.	Robbie Jones		
Tristar Glass, Inc.	Tim Kelley		
Triton Glass LLC	Sahaj R. Patel		
Trulite Glass and Aluminum Solutions	Jeff Haberer	Adrian Casas	
Turkiye Sise ve CamFabrikalar A.S. SisecamDuzcam	Ercan Acar	Burcu Sekir	
TVITEC System Glass, S.L.	David Lopez	Ms. Alexandra Gonzalez	
Tweddell's Inc.	Corey Myer	Ed Blair	
U.S. Glass Distributors Inc.	Franco Alfano	David Jaskulski	
Ungari Investments, LLC. (dba S.F. Tempering)	Jorge Ontiveros	Salva Sorka	
Uniglass	Shakil Ahmed Khan		
United Plate Glass Co., Inc.	Darin Vietmeier		
Unitex Glass Chengdu Co., Ltd	Andy Yu	Chen Xinhua	
Upstate Glass Tempering Inc.	David Chavoly	Allen Gottlieb	
US Glass Tempering Inc.	Anil Kumar	Sid Dhir	
VA Glass, LLC.	Rodney Keatts	James Wright	
Valentini Glass & Components srl	Claudio Valentini		
Vandaglas Eckelt GmbH	Christian Eckelt		
Vetzeria F. Illi Paci	Maurilio Paci		
Vetriko S.A.	Jorge Torbay	Fernando Navedo	
Vetrodomus SpA	Frederico Casaccio	Chiara Pastore	
V-Glass LLC DBA: Creative Glass Processing (CGP)	Miguel Urdaneta	Victor Aspron	
Vidplex Universal S.AS	Michael Rodriguez	Daniela Garcia Avella	
Vidrio Bisel S.A. de C.V.	Ignacio Flores Suarez		
Vidrio Plano De Mexico S.A. DE C.V.	Prisciliano Bernal Ramírez	Santiago de la Torre García	
View Inc.	Joe Crouson		
Viewrail	Troy Burns	David Maxwell	
Viracon Inc.	Brian Louks	Michael Schettler	
Vision En Cristal Y Aluminio SA DE CV	Jaime Salazar Guzman	Edgar Valverde Chong	

*SGCC Certification Committee*

<b>Licensee</b>	<b>Primary Member</b>	<b>First Alternate</b>	<b>Second Alternate</b>
Vista Glass Corporation	Sajad Kazemeyni	Jay Patel	
Vistamatic, LLC	Kevin Roth		
Vitelsa Mosquera S.A.	Laura Luna		
Vitemex	Edgar Alonso de la Cruz		
Vitalum Glass Solutions Inc.	Eliben Morelos	Benjamin Morelos	
Vitre-Art C.A.B.(1988) Inc.	Nicolas Barazin	Martin Comeau	
Vitro Flat Glass, LLC (formerly PPG)	Wagner Lozano	Paul Di Cesate	
Vitrum Glass Ltd.	Tim Stewart	Michael English	Carmelita Pena
Vitrum Industries Ltd.	Tim Stewart	Carmelita Pena	
Viwinco, Inc.	Michael Duncan	Mr. Kim Hammerschmidt	
W. A. Wilson Inc.	Robert Hartong		
W.C.P., Inc dba West Coast Insulated Glass Products	Rusty Neubauer		
Washington Glass Fabrication LLC.	Rahim Wali	Gregory Mason	
West Seal Ltd.(AWG Northern Dist.)	Craig Leonard	Barb Szaszik	
Wexford Viking Glass Limited	Paul Murphy	Pauline Kirwan	
Whalley Glass Co	Mark Vece		
White Aluminium Enterprises L.L.C	Jabr Doshan		
Wholesale Glass Distributors, Inc.	Chet Day		
WHTB Glass, LLC	Alan Tan	Yufeng Pan	
Window Creations, LLC	Jason Buehrer	Brad Allison	
Window Technologies, Inc.	Michael Castleberry		
Wisconsin Shower Door & Supply Corp	Chuck Biesik	James Kinsey	
W-M Glass sp. zo.o.	Dariusz Monkiewicz	Rafal Wedrowski	
WMB Windows Inc.	Wendy Baron	Ivan Baron	
Wolverine Glass Products, Inc.	Rodger Ruff	Chelsie Cowles	
Woodbridge Glass Distribution Inc.	Eduardo Raposo	Simone Iezzi	
Woon-Tech Inc.	Joshua Foster		
WSD Glass, Inc.	Gary Reece		
Wujiang CSG Huadong Architectural Glass Co., LTD	Yu Jinhui		
Wutkowski Sp. Zo.o.	Marcin Mroczkowski	Aneta Grzelak	
Xiamen Shiner Glass Co., Ltd.	Anne Law	Maggie Liang	
Xianning CSG Energy Conservation Glass Co., LTD.	Yu Jiao		
XYG North America Corp.	Joanne Loh	Lawrence Tao	
Yakut Cam A.S	Faith Poyraz	Murat Tuncer	
Yantai Bluesky Glass Co., Ltd	Kelly Jiang		
Yantai Dongfang Glass Co., Ltd	Xing Jinwei		
Yildiz Cam San. Tic. A.S.	Mevlude Kaynak	Gulsen Ekici	
Yin Fu (Dong Guan) Glass Co., Ltd.	Lily Chen		
Yitian (Cattis) Glass Product Co., Ltd	Xiaojun Zheng		
Yong Feng Tai Foshan City Glass Co., LTD.	Aijun Zhong		
Yorglass Cam Sanayi Ve Ticaret A.S.	Serap Bayram		
Zhangjiagang City Daming Glass Product Co., Ltd	Xiao Ruijuan		
Zhangjiagang Weiyu Fabricated Glass Co. Ltd.	Xu Zhengdong		
Zhaoqing CSG Energy Conservation Glass Co., Ltd	Yubin Zeng	Edwin Cao	
Zhejiang Jinchen Glass Co., Ltd.	Jin Yong Tang	Liu Peihua	
Zhejiang Pusaisi Intelligent Glass Co., LTD	Qi Luofeng	Zhang Jianjun	
Zhongli Glass Co., Ltd	Meng Qingxian		
Zhongshan Walle Glass Product Co., Ltd	Yilan Liu		
Zhongshan Zhengde Glass Products Co., Ltd.	Chen Minhua	Zhang Xiaolei	
Zorro International Corporation	Joe He		



*SGCC Certification Committee*

**Licensee**

**Primary Member**

**First Alternate**

**Second Alternate**

---

**Certification Committee Chairman - Mark Cody**

**Member by virtue of being a director**

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

July 2023

Revised 10/1/2014

**~PROGRAM CONCEPT~**

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

The purpose of SGCC is:

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

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

American National Standard for Safety Glazing Materials used in Buildings - Safety Performance Specifications and Methods of Test: ANSI Z97.1-2015(R2020).

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 12.1-2022

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. 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.

July 2023

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 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 a list of manufacturing licensees listed alphabetically by plants and the approved products manufactured at those plants. 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. (Modified 1/2021)

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

### **FOREWORD**

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

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

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

### **GENERAL INFORMATION**

#### **THE CERTIFICATION CONCEPT**

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

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

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

#### **WHO CAN BECOME A LICENSEE? (Revised 10/14/2016)**

Any manufacturer of safety glazing materials is eligible, on a voluntary basis, to become a licensee. A manufacturer is the entity who fabricates, constructs, treats, or combines glazing materials with other materials to make a final safety glazing material.

#### **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) (i) The applicant signs the SGCC® License Agreement and emails it to SGCC®. SGCC® will countersign all copies and return one to the applicant. Non-manufacturing applicants applying on

behalf of a manufacturer must include the location and appropriate signatures of their manufacturer for each location. (Revised 9/19/2017)

(ii) The applicant must complete the SGCC® Application, which includes all of the necessary information for the safety glazing product(s) and return to SGCC®. (Added 7/1/2016)

- b) The applicant directs an SGCC® approved testing laboratory, of its own choosing, to send SGCC® one copy of a valid test report indicating the “initial” or “prototype” samples submitted for testing are in full and complete compliance with ANSI Z97.1 and 16 CFR 1201 and/or CAN/CGSB 12.1. Reports shall only be accepted directly from SGCC® Approved independent laboratories. **Test reports are valid for initial certification if the report date is within 60 days.** (Revised 9/19/2017)
- c) The applicant sends to SGCC® the certification fee for each item to be certified. (Revised 11/4/2015)
- d) (Deleted 10/21/2007)
- e) If the Licensee has certified product with SGCC during the prior 24-month period and has had all products decertified by SGCC or has voluntarily decertified all products, an audit must be performed by the Administrator’s representative and any corrective actions resulting from such audit resolved (Added 9/19/2017)

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 10/4/2018)**

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 and reliability 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.

#### **Quality Assurance Requirements:**

- 1) **A Quality System Manual** – A quality manual shall be present that documents, identifies, describes and contains the workings of the quality system, and as a minimum contains the following sections:
  - a. Designated Person for Quality Assurance
  - b. Process Control (Procedures)
  - c. Production Testing
  - d. Calibration
- 2) **Designated Representative for Quality Assurance** – The manufacturer shall designate a person who is responsible for the quality system function in the manufacturing facility.
- 3) **Process Control** - The individual areas involved in the fabrication of safety glazing shall be defined. Each area shall have documented procedures.
- 4) **Production testing** – Procedures shall describe testing of regular production and shall include SGCC requirements for safety glazing products. The SGCC auditor shall 1) review historical testing records ensuring procedures were followed if failure occurred 2) witness at least one production test and 3) review the method of evaluation during twice per year visits. When samples are not available, the manufacturer shall describe to the auditor how production testing is performed. Where ANSI or ASTM test methods are referenced below, other like national or internationally accepted test methods (for example EN 12600) are acceptable. Records of testing shall be maintained for a minimum of 10 years. See "Guidance for the SGCC® Quality Assurance Production Testing for additional information and a list of Suitable Alternatives available at <https://www.sgcc.org/more-info/miscellaneous->

[forms-and-information](#))

- a. Tempered – ANSI Z97.1 Center Punch<sup>1</sup> and/or Impactor<sup>1</sup> Test - As a minimum, testing shall occur on the first of each product thickness per shift. Additional testing may be appropriate.
  - b. Laminated – ASTM F3007<sup>1</sup> and/or ANSI Z97.1 Impactor Test - During regular production periods, a minimum sample collection shall be performed weekly, and actual testing occur at least monthly. Sample collection must be traceable to specific production runs. For ASTM F3007 testing, sampling and testing shall occur as a minimum on the thinnest product(s) produced. Evaluation shall occur and drop height selection as a minimum shall be in accordance with ASTM F3006.
  - c. Products other than Tempered or Laminated - Testing procedures shall be established and accepted by the SGCC Administrator.
- 5) **Calibration** - Test equipment used in the quality inspection process must be working properly and accuracy assured. Equipment shall be 1) identifiable, 2) records of the calibration maintained, and 3) a method shall exist for monitoring at least an annual calibration.

### **HOW THE CERTIFICATION PROGRAM WORKS (Revised 10/1/2020)**

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

After initial certification (see “How Can You Become a Licensee”), the administrator verifies the production at the licensee’s manufacturing location during twice per year audits. In consideration of public health concerns one or both of the twice per year audits can be conducted virtually. During each audit, the licensee’s compliance to SGCC’s Quality Assurance Program is validated. During these audits, independent routine test sample selection is performed as well as review of proper labeling practices.

All tests are conducted by SGCC® approved testing laboratories. All laboratories, whose test reports are utilized by the Certification Program, shall be approved by the SGCC® Certification Committee. Initial or prototype tests are performed at an approved testing laboratory selected by the licensee. An approved testing laboratory selected with the concurrence of the Administrator by the licensee, tests routine evaluation samples.

### **ADMINISTRATOR AUTHORIZES CERTIFICATION**

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

Licensees label safety glazing material, with the assigned SGCC® number, within the limits of the product size tested. If 34 by 76 inches (34x76) 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 (Revised 10/14/2016)**

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

---

<sup>1</sup> Please contact SGCC at [SGCC@amscert.com](mailto:SGCC@amscert.com) or visit the SGCC website (<https://www.sgcc.org/more-info/miscellaneous-forms-and-information>) for additional information including equipment details and purchasing options for this equipment.

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 marketplace.

## **COMPLIANCE SAFEGUARDS**

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

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

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

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

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

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

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

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

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

### **WITHDRAWAL OF CERTIFIED PRODUCT**

Any product which has been certified by SGCC®, may be voluntarily withdrawn from the Certification Program by a licensee at any time. See G.23 for more information.



**COSTS**

**WHAT DOES THE PROGRAM COST?**

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

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

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

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

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

**CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS**

**LICENSE AGREEMENT**

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

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

**EFFECTIVE DATE, DURATION AND TERMINATION**

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

Upon its proper execution and acceptance by SGCC®, the Pre-issued Certification Number Bond (SD-06) 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 (hard copy and/or electronic) 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 / 16 CFR 1201 plus CAN/CGSB 12.1 will be accepted from any testing laboratory approved by the SGCC® Certification Committee. (Revised 7/1/2016)

G.3 (Deleted 11/4/2015)

#### G.4

For insulating glass units to be considered safety glazing material, each lite in the construction ([double pane or multi-pane assemblies](#)) must be of safety glazing material. (Modified 10/5/2022)

#### G.5

The SGCC® 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 and c of G.11 shall be followed. (Revised 3/16/1990, updated 10/2/2014)
- b) The laboratory shall verify that the label complies with SGCC® labeling requirements. (Revised 10/15/2008)
- c) The testing laboratory is to advise the Administrator of any specimen to which the correct SGCC® permanent label is not affixed. The testing laboratory will be instructed by the Administrator not to test but hold the sample.
- d) The Administrator will inform the licensee of the situation and direct (by letter) the testing laboratory to commence testing no later than 30 days hence. Although this set of samples will already be considered as noncompliant with label requirements, test specification testing will still occur for information only, unless otherwise requested not to be tested by the licensee. Until that time, the testing laboratory is instructed to make these specimens available to the licensee at their convenience (the specimens are to remain at the testing laboratory) in order that the licensee may point out or show them that in fact the SGCC® permanent label is correct or agree that in fact the correct SGCC® permanent label is not present. In cases of any dispute between the licensee and the testing laboratory the decision of the Administrator shall be final. The licensee shall not mark specimens after receipt at the testing laboratory.
- e) Effective with the last of 2016 (L16) certification period, the SGCC® permanent label, if looking to certify ANSI, must contain ANSI Z97.1-2015 in order to be considered a correct permanent label for purposes of Guideline G.6. (Revised 7/1/2016)

#### G.7

Safety glazing materials for which certification is requested for indoor use only shall be subjected to the provisions of section 4.4 (impact tests) and 5.4.3 (aging tests) of ANSI Z97.1 irrespective of the composition or construction of the glazing material. Like products and materials produced in the same manner as samples

submitted for test shall be legibly and permanently marked in one corner with the words "Indoor Use Only" and the SGCC® identification number (section 6.3.1).

G.8 (Deleted 4/29/2010)

G.9 (Deleted 7/1/2016)

G.10 (Revised 12/7/2018)

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 (6) weeks in which to effect delivery of said specimens to the Administrator's designated testing laboratory. For laminated glass, specimens must be the thinnest interlayer and the thinnest product certified in each thickness class (S and/or H) and generic interlayer category.
- 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 (RT) sample to the testing laboratory selected by the licensee with the concurrence of the Administrator.

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

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

G.12

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

G.13 (Deleted 5/6/1999)

G.14

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

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

The invoice procedures will be as follows:

- a) Semi-Annual SGCC® invoices will be mailed/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. An email will follow the phone call.
- c) For all overdue invoices, as of May 15 and November 15, an email will be sent warning of de-certification if payment is not received within 15 days.
- d) Letters of de-certification will be sent fifteen (15) days from the warning notification if payment is not received. With de-certification, a licensee will no longer be an SGCC® participant and all of its certified products will be de-certified and will not appear in the CPD.

G.15 (Deleted 10/2/2014)

G.16

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

G.17 (Deleted 7/1/2016)

G.18

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

G.19 (Deleted 10/20/1989)

G.20 (Deleted 4/26/2007)

G.21

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

G.22

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

- 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 (RT) sample required by Guideline G.11. (Revised 7/1/2016)

#### G.23

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

- a) Prior to or within two (2) weeks after the shutdown, the licensee shall inform the SGCC® Administrator in writing.
- b) The SGCC® Administrator will immediately supply the licensee with test release bond forms (SD-23) for submission by the licensee. A separate bond shall be submitted for each certified product affected.
- c) Within two (2) weeks, after receipt of the bond forms, the licensee shall submit them to the SGCC® Administrator.
- d) During the period covered by the bond the licensee shall retain certification, contingent upon payment of normal certification fees and meeting all other licensee obligations. Bonds will be for a specific certification period and will expire at the end of that certification period but may be renewed by the licensee any number of times. Renewal is an obligation of the licensee and requires all steps listed herein. (Revised 10/25/2001)
- e) Within one (1) week after re-activation of the production facility the licensee shall 1) notify the SGCC® Administrator in writing, and 2) submit samples from the first weeks production to an SGCC® approved laboratory for testing. In cases where more than one certified product is produced with the same equipment, samples of each must be furnished for testing within the first month. These will be considered as the routine samples for retesting for the six months period during which they are submitted.
- f) Failure of the licensee to comply with any of the preceding shall be the basis for removal of certification from the affected products.

#### G.24

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

G.25 (Deleted 7/1/2016)

#### G.26

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

#### G.27

A licensee at time of prototype submission should determine if certification shall be for ANSI / CPSC (Composite) OR Composite plus CAN/CGSB 12.1 (COMP+CAN). The licensee shall be issued only one SGCC® number for composite certification for each product. The licensee will submit four (4) samples to be impact tested to ANSI Z97.1 and CAN/CGSB 12.1 (for all specimens that are not symmetrical from surface to surface an equal number of specimens shall be impacted on each side). If any one specimen of the composite sample fails, the entire composite sample will be considered to have failed to comply with the standards. (Revised 7/1/2016)

G.28

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

G.29

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

G.30 (Deleted 10/5/2004)

G.31 (Deleted 10/5/2004)

G.32 (Deleted 7/1/2016)

G.33

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

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

The Administrator shall arrange for the next routine sampling to take place within six (6) months of the sale. If the plant is temporarily inoperative in connection with the sale, the provisions of G.23 shall also apply.

G.34

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

G.35

Once certified by SGCC®, a product is assigned an exclusive certification number to identify it and the plant at which it is made/fabricated. An SGCC Licensee shall notify SGCC prior to a plant's physical relocation. Relocation requires certification as a new plant and will require new SGCC numbers and testing at the new plant prior to granting of the new certification. Consistent with the SGCC License agreement and procedural guide, fabrication and labelling must occur at the same facility. (Added 10/10/2019)

**CERTIFICATION OF TEMPERED COATED GLASS (Added 9/29/2021)**

In order to SGCC certify tempered glass with a metalized coating (MC) that is applied to annealed glass prior to tempering (reflective, Low E, other), test results for the MC glass must be initially provided to SGCC. MC testing must then occur at least annually thereafter to maintain the MC designation for a particular thickness of product. Testing of MC product will satisfy SGCC regular testing requirements (likely one MC test and one non-MC test annually). Certification of an MC product shall cover coated and non-coated product of a given thickness. See Guideline T.3 for further clarification.

Testing shall be with a sputter coating (soft coat) or a pyrolytic (hard coat), at the discretion of the SGCC Licensee. Testing of any coated product shall cover all coated product. During regular twice per year inspections SGCC shall document the generic class of coating to submit (Sputter or Pyrolytic). The plant shall



ship product with the coating identified (as a minimum 'Soft Coat' or 'Hard Coat') (likely by paper label), and the testing laboratory shall measure/validate the coating with the use of a coated glass meter (List of acceptable meters available in the SGCC Laboratory Manual). The presence of a coating shall be included in the SGCC test report.

Listings (certifications) for Tempered coated glass shall begin with the July 1<sup>st</sup>, 2022 certification cycle (L22).

## TEMPERED TRANSPARENT GLASS

### T.1

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

### T.2

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

### T.3

Certification of non-coated tempered glass will also cover the items below, of the same nominal thickness where the coating does not alter substantially the post-breakage behavior of the glass substrate.

- Tinted
- Non-metalized surface coating (such as ceramic material applied as a continuous or partial coating to one or more surfaces)
- Post tempered metalized coating

A "substantial alteration" is one that would render the tempered glass in non-conformance with the applicable safety glazing standards. For SGCC certified tempered glass with a metalized coating (MC), as defined in section Certification of Tempered Coated Glass, the metalized coated product must be tested initially and then at least annually thereafter. An SGCC "MC" designation per nominal thickness will be authorized for product in compliance. Products with the MC designation shall cover coated or non-coated product. See section **Certification of Tempered Coated Glass** of the procedural guide. (Revised 9/29/2021)

### 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 (6) weeks.

### T.5

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

### T.6

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

### T.7

For purposes of impact test evaluation when breakage occurs, the average thickness of a tempered glass specimen containing grooves, bevels and other thickness altering fabrication shall be considered the average of the thinnest measurement of each of the ten (10) geometrically largest particles. This average thickness will then be used to determine the maximum allowable weight of the ten (10) largest particles. Upon successful completion of testing the thickness for the specimen shall be listed in the CPD as the thickness of the non-fabricated base glass. SGCC® views glue chip, beveling, grooving, and acid etching as a fabrication

process prior to tempering, and as such is not certified separately from the base glass thickness. (Example: Certification of 3/16" TTG would also cover 3/16" glue chip or beveled product.) (Revised 10/01/2002)

## TEMPERED PATTERNED GLASS

### TP.1

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

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

<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 *Classified Tempered Glass Patterns Key* table 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 (1) specimen must be weighed and the weight of ten (10) square inches determined from the weight, width and height of that specimen to use for test purposes.

### TP.4 (Deleted 10/5/2004)

### TP.5

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

### TP.6

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

## LAMINATED GLASS

### L.1

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 (<0.292 inches) and H=Heavy (0.292 inches and greater)) and per generic category of interlayer. A list of accepted interlayer brands per generic category shall be maintained by SGCC® (SGCC® List of Accepted Interlayers can be found at [www.sgcc.org](http://www.sgcc.org)) Certification to one brand within the generic category will allow switching to other brands within the generic category on

the list. (see "Guidance for the SGCC® Certification of Laminated Glass" available at [www.sgcc.org](http://www.sgcc.org)) (Added 4/2/2008)

- L.2 (Deleted 12/7/2018)
- L.3 (Deleted 4/2/2008)
- L.4 (Deleted 12/7/2018)

L.5

Laminated safety glass shall be identified and certified by two (2) types, Laminated Transparent Glass (LTG) and Laminated Specialty Product (LSP).

- a) Laminated Transparent Glass (LTG) is defined as two (2) or more lites of glass with the same family of polymer (interlayer(s)) between the lites.
- b) Laminated Specialty Product (LSP) is defined as two (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 Laminated glass changes and equivalency see **Table L1**. (Revised 12/7/2018)

<b>Laminated Glass Equivalency (Table L1)</b>		
As inserts are referenced below, there shall be no adverse reaction of inserts with accepted interlayers. Fabricator maintains sole responsibility for establishing compatibility, durability and retention of impact properties for all materials used in any laminated composite or encapsulated interlayer system.		
<b>Change Categories</b>	<b>Equivalent Changes</b>	<b>Not Equivalent Changes</b>
<b>Interlayer generic category</b>	Different brand of same generic category (see guideline L.11)	Different generic category
<b>Interlayer thickness</b>	Increase in interlayer thickness (As long as overall thickness remains within range of certified product).	Decrease in interlayer thickness (maximum allowable minus tolerance of 0.005 inches)
<b>Glass/glazing</b>	Flat, patterned or bent glass	Change from glass to plastic or plastic to glass
<b>Glass fabrication</b>	(A, HS, T, CS) See guideline L.8	N/A
<b>Dimensional tolerances (Glass and Interlayer)</b>	(See Guideline L.1 and L.7)	N/A
<b>Inserts or changes in material of plies or inserts (generic make-up)</b>	If insert is encapsulated and interlayer is accepted and of the minimum thickness of acceptance on each side of the insert	If insert is not encapsulated, or interlayer is not accepted or of minimum thickness on each side of insert
<b>Additional layers of same type</b>	Increase in layers (As long as overall thickness remains within range of certified product).	Decrease in layers
<b>Coatings or Color (interlayer or glazing)</b>	Changes in tint, translucence, or coated glass	N/A
<b>Decorative pattern (not to be confused with patterned glass)</b>	Changes in decorative pattern (glass or inserts), follow direction for change of insert	Lower than tested minimum interlayer thickness on either side of the insert or non-accepted interlayer
<b>Electronics, plastics or other devices</b>	Encapsulates, Follow requirements for accepted interlayer and minimum thickness on both sides of inserts	Lower than tested minimum interlayer thickness on either side of the insert or non-accepted interlayer

L.6

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

L.7

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

<u>mm</u>	<u>Range (mm)</u>	<u>Traditional (in)</u>	<u>Range (in)</u>
3.0	2.92 – 3.78	1/8	0.115 – 0.148
4.0	3.79 – 4.57	5/32	0.149 – 0.179
5.0	4.58 – 5.56	3/16	0.180 – 0.218
6.0	5.57 – 7.41	1/4	0.219 – 0.291
8.0	7.42 – 9.01	5/16	0.292 – 0.354
10.0	9.02 – 11.91	3/8	0.355 – 0.468
12.0	11.92 – 15.11	1/2	0.469 – 0.594
16.0	15.12 and greater	5/8	0.595 and greater

L.8

Laminated glass shall be certified by its base glass heat treating/fabrication process (A= annealed, HS= heat strengthened, T= tempered, CS= chemical strengthened). When a laminated annealed glass (A) is tested and certified, other laminated glasses having the same nominal thickness or thicknesses of heat strengthened (HS), tempered glass (T), or chemical strengthened (CS) 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). Testing of chemical strengthened (CS) will only certify chemical strengthened (CS). (Revised 12/7/2018)

L.9 (Deleted 12/7/2018)

L.10

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

L.11

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

**WIRED GLASS (ANSI ONLY)**

W.1 (Deleted 11/4/2015)

**PLASTICS - GENERAL (ANSI Only)**

P.1

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

P.2

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

P.3

The following thickness tolerances shall be used for certification purposes:

- Outdoor use plastic materials Categories C-1 and C-2 cast Acrylic, (including continuously cast sheet): As specified in ASTM-D4802-16, Table 2 and Table 3.
- Outdoor use plastic materials Categories M-1 and M-2 extruded Acrylic: As specified in ASTM-D4802-16 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 (section 5.4) 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 5.4.1 of ANSI Z97.1 (UV Weathering) but must comply with paragraph 5.4.3.

PI.2

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

PI.3

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

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

- LG.1 (Deleted 4/26/2007)
- LG.2 (Deleted 4/26/2007)
- LG.3 (Deleted 4/26/2007)

## **ORGANIC COATED GLASS**

### **AG.1**

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

### **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.

## **VACUUM INSULATING GLASS (VIG)**

See 2017.10.31 “VIG ANSI Interpretation and Information” memo on [www.sgcc.org](http://www.sgcc.org) (<https://www.sgcc.org/memos>) or contact the SGCC office. VIG Tempered and Laminated are certified to the following types: VIG Tempered (VIGT), VIG Laminated (VIGL) or VIG Tempered Laminated (VITL) are each tested and certified separately. One will not certify the other.

## **CHEMICALLY STRENGTHENED SAFETY GLASS (CSSG)**


See most recent “ASC Z97 Technical Interpretation (TI-2018.1017.001)” at [www.sgcc.org](http://www.sgcc.org) or contact the SGCC office.

## SGCC® ADVERTISING GUIDELINES

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

1) SGCC is a non-profit organization that maintains a third-party certification program which provides for the certification of safety glazing materials found to be in compliance with either ANSI Z-97.1-2015(R2020) or 16 CFR 1201 or both, or both plus CAN/CGSB 12.1. Products are not certified by SGCC unless and until a test to the applicable specification(s) conducted at an approved testing laboratory indicates compliance and the license contract requirements are met. (Revised 10/10/2012)

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

The use of the prominent etching of the SGCC stylized logo () may misleadingly making it appear as if SGCC is the source of the glazing material and therefore is not permitted as part of the SGCC certification label.

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

4) To buyers, specifiers, code officials, and users, the SGCC certification label offers the licensee assurance that its safety glazing material has been produced in conformance to ANSI Z-97.1-2015(R2020), 16 CFR 1201 and/or CAN/CGSB 12.1. (Revised 10/10/2012)

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

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

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

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

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

9) \*\*ANSI Disclaimer

Although the SGCC Program is ANSI-accredited and uses the ANSI accreditation symbol on its publicity material the SGCC-certified Licensee cannot use the ANSI trademark nor the ANSI accreditation symbol, this includes its products, packaging, stationary, letterhead, or any other form of media.

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

**GENERAL**

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

The permanent label must contain the correct SGCC® number, ANSI Z97.1-2015 and/or 16 CFR 1201 and/or CAN/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 or B). (Revised 7/1/2016)

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

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

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

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

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

<u>In inches</u>	<u>In mm</u>	<u>Laminated example</u>
ABC Glass – Plant A (optional)	ABC Glass – Plant A (optional)	ABC Glass – Plant A (optional)
16 CFR 1201 II	16 CFR 1201 II	16 CFR 1201 II
ANSI Z97.1-2015	ANSI Z97.1-2015	ANSI Z97.1-2015
CAN/CGSB 12.1-2022	CAN/CGSB 12.1-2022	CAN/CGSB 12.1-2022
1/4 U A SGCC 9999	6mm U A SGCC 9999	(S) U A SGCC 9999

**SGCC should precede the number within the permanent label.**

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

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

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

**EXAMPLES**

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

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

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

The permanent label must NOT be affixed to any product from which certification has been withdrawn or which is



produced with a process basically different from the one used to manufacture the initial or prototype samples.

### **ANSI ONLY LABEL**

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

#### **Label Content.**

The label shall contain the following information:

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

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

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

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

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

### **CPSC ONLY LABEL**

"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.

*Certified Products-Alphabetical By Plant*

<i>SGCC#</i>	<i>TEST STD</i>	<i>INCHES (MM)</i>	<i>TYPE</i>	<i>MAX SIZE ANSI CERTIFIED CLASS</i>	<i>SGCC#</i>	<i>TEST STD</i>	<i>INCHES (MM)</i>	<i>TYPE</i>	<i>MAX SIZE ANSI CERTIFIED CLASS</i>
		<i>(THICKNESS CLASS)</i>					<i>(THICKNESS CLASS)</i>		
<b>24 Hour Thermal Glass Insulated Ltd. ; Concord, Ontario</b>					<b>Advanced Impact Technologies ; Largo, FL</b>				
6918	COMPOSITE	5/32	4.0 TTG (MC)	U A	7374	COMP+CAN	1/8	3.0 TTG	U A
6919	COMPOSITE	3/16	5.0 TTG (MC)	U A	7375	COMP+CAN	3/16	5.0 TTG (MC)	U A
6920	COMPOSITE	1/4	6.0 TTG (MC)	U A	7376	COMP+CAN	1/4	6.0 TTG (MC)	U A
<b>3 Form ; Kernersville, NC</b>									
8085	COMP+CAN	5/32	4.0 TTG	U A	7377	COMP+CAN	3/8	10.0 TTG	U A
8476	COMP+CAN	3/16	5.0 TTG	U A	7378	COMP+CAN	1/2	12.0 TTG	U A
5026	COMP+CAN	1/4	6.0 TTG	U A	7434	COMP+CAN	(S)	6LTG (b)(A)	(.030) U A
8477	COMP+CAN	5/16	8.0 TTG	U A	7435	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030) U A
5210	COMP+CAN	3/8	10.0 TTG	U A	<b>Advantage Glass Corp ; Crystal Lake, IL</b>				
5211	COMP+CAN	1/2	12.0 TTG	U A	8911	COMPOSITE	5/32	4.0 TTG	U A
8929	COMP+CAN	(H)	8 LTG (ev)(A)	(.030) U A	8912	COMPOSITE	3/16	5.0 TTG	U A
8930	COMP+CAN	(H)	10 LSP (ev)(A)	(.030x3) U A	8913	COMPOSITE	1/4	6.0 TTG	U A
8931	COMP+CAN	(H)	16+ LSP (ev)(A)	(.030x5) U A	<b>AdvanTec ; Chilliwack, British Columbia</b>				
<b>8044554 Canada Inc. ; Stewiacke, Nova Scotia</b>					7463	COMPOSITE	5/32	4.0 TTG	U A
8882	COMP+CAN	1/8	3.0 TTG	U A	7464	COMPOSITE	3/16	5.0 TTG	U A
8883	COMP+CAN	3/16	5.0 TTG	U A	7465	COMPOSITE	1/4	6.0 TTG (MC)	U A
8884	COMP+CAN	1/4	6.0 TTG	U A	7466	COMPOSITE	5/16	8.0 TTG	U A
8885	COMP+CAN	3/8	10.0 TTG	U A	7467	COMPOSITE	3/8	10.0 TTG	U A
8886	COMP+CAN	1/2	12.0 TTG	U A	7468	COMPOSITE	1/2	12.0 TTG	U A
8887	COMP+CAN	3/4	19.0 TTG	U A	7469	COMPOSITE	*	15.0 TTG (4)	U A
<b>A.N. ALODAN &amp; SONS CO. GLASS &amp; ALUMINIUM FACTORY ; Riyadh, Saudi Arabia</b>					7470	COMPOSITE	3/4	19.0 TTG	U A
7269	COMP+CAN	1/4	6.0 TTG (MC)	U A	8937	COMPOSITE	(H)	10-16+ LTG (ev)(A)	(.060) U A
7276	COMP+CAN	5/16	8.0 TTG (MC)	U A	<b>AGNORA LTD ; Collingwood, Ontario</b>				
7277	COMP+CAN	*	12.0 TTG (7)	U A	4883	COMP+CAN	1/4	6.0 TTG (MC)	U A
7278	COMP+CAN	(H)	8-16+ LTG (b)(T)	(.045) U A	4885	COMP+CAN	3/8	10.0 TTG (MC)	U A
<b>A3 Glass Fabricator LLC ; Houston, TX</b>					4884	COMP+CAN	1/2	12.0 TTG	U A
8506	COMPOSITE	1/4	6.0 TTG (MC)	U A	4886	COMP+CAN	(H)	12+ LTG (b)(A)	(.030) U A
8507	COMPOSITE	3/8	10.0 TTG	U A	<b>Air Master (Valmeg, LLC) ; Gurabo, Puerto Rico</b>				
8508	COMPOSITE	1/2	12.0 TTG	U A	8599	COMPOSITE	1/8	3.0 TTG	U A
<b>Accurate Glass Products ; Barrie, Ontario</b>					8600	COMPOSITE	5/32	4.0 TTG	U A
8829	COMP+CAN	5/32	4.0 TTG	U A	8681	COMPOSITE	3/16	5.0 TTG	U A
7672	COMP+CAN	3/16	5.0 TTG	U A	8601	COMPOSITE	1/4	6.0 TTG	U A
7418	COMP+CAN	1/4	6.0 TTG	U A	8602	COMPOSITE	3/8	10.0 TTG	U A
7419	COMP+CAN	5/16	8.0 TTG	U A	8424	COMPOSITE	1/2	12.0 TTG	U A
7420	COMP+CAN	3/8	10.0 TTG	U A	8568	COMPOSITE	(H)	8 LTG (b)(A)	(.075) U A
7421	COMP+CAN	1/2	12.0 TTG	U A	8569	COMPOSITE	(H)	10 LTG (b)(A)	(.030) U A
<b>Ace Safety Glass Co., Ltd. ; Jeongeup-si, Jeollabuk-Do</b>					<b>AJJ Glass Products Co., Ltd ; Xiamen, Fujian</b>				
8237	COMP+CAN	1/8	3.0 TTG	34x3 A 4	8331	COMP+CAN	3/8	10.0 TTG	U A
8426	COMP+CAN	5/32	4.0 TTG	34x3 A 4	8332	COMP+CAN	*	12.0 TTG (3)	U A
<b>Acme Glass LTD. ; Surrey, British Columbia</b>					8335	COMP+CAN	(H)	16+ LTG (ip)(A)	(.060) U A
8603	COMP+CAN	3/16	5.0 TTG	U A	8334	COMP+CAN	(H)	16+ LTG (b)(A)	(.030) U A
8604	COMP+CAN	1/4	6.0 TTG	U A	<b>Al Abbar Architectural Glass ; Dubai, United Arab Emirates</b>				
8605	COMP+CAN	3/8	10.0 TTG	U A	4846	COMPOSITE	3/16	5.0 TTG	U A
8606	COMP+CAN	1/2	12.0 TTG	U A	3556	COMPOSITE	1/4	6.0 TTG	U A
<b>Advanced Design Manufacturing ; Antioch, CA</b>					3557	COMPOSITE	5/16	8.0 TTG	U A
6685	COMPOSITE	1/4	6.0 TTG	U A	3558	COMPOSITE	3/8	10.0 TTG	U A
6686	COMPOSITE	3/8	10.0 TTG	U A	4590	COMPOSITE	1/2	12.0 TTG	U A
					3976	COMPOSITE	*	15.0 TTG (4)	U A
					3977	COMPOSITE	3/4	19.0 TTG	U A
					3560	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030) U A
					<b>Al Andalus Glass Factory Co. ; Riyadh, Saudi Arabia</b>				
					7486	COMPOSITE	1/4	6.0 TTG	U A
					7487	COMPOSITE	1/2	12.0 TTG	U A
					7488	COMPOSITE	(H)	12 LTG (b)(A)	(.030) U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Aldora Aluminum and Glass Products Inc. ; Charleston, SC</b>						<b>All Team Glass &amp; Mirror, Ltd. ; Woodbridge, Ontario</b>					
4328	COMPOSITE	1/8	3.0 TTG (MC)		U A	8218	COMP+CAN	5/32	4.0 TTG		U A
4330	COMPOSITE	3/16	5.0 TTG		U A	1755	COMP+CAN	3/16	5.0 TTG		U A
4331	COMPOSITE	1/4	6.0 TTG (MC)		U A	1756	COMP+CAN	1/4	6.0 TTG		U A
4335	COMPOSITE	3/8	10.0 TTG		U A	2790	COMP+CAN	5/16	8.0 TTG		U A
4336	COMPOSITE	1/2	12.0 TTG		U A	1757	COMP+CAN	3/8	10.0 TTG		U A
4337	COMPOSITE	(H)	8, 12 LTG (lu)(A)	(.060)	U A	1758	COMP+CAN	1/2	12.0 TTG		U A
<b>Aldora Aluminum and Glass Products, Inc. ; Austell, GA</b>						<b>4355 COMP+CAN 5/8 16.0 TTG U A</b>					
7307	COMPOSITE	1/8	3.0 TTG (MC)		U A	3656	COMP+CAN	3/4	19.0 TTG		U A
7308	COMPOSITE	3/16	5.0 TTG (MC)		U A	<b>Allglass Tempering Inc. ; Schiller Park, IL</b>					
7309	COMPOSITE	1/4	6.0 TTG (MC)		U A	5835	COMPOSITE	5/32	4.0 TTG		U A
7310	COMPOSITE	3/8	10.0 TTG		U A	5836	COMPOSITE	3/16	5.0 TTG (MC)		U A
7311	COMPOSITE	1/2	12.0 TTG (MC)		U A	5837	COMPOSITE	1/4	6.0 TTG (MC)		U A
7851	COMPOSITE	3/4	19.0 TTG		U A	5838	COMPOSITE	3/8	10.0 TTG		U A
<b>Aldora Aluminum and Glass Products, Inc. ; Coral Springs, FL</b>						<b>5839 COMPOSITE 1/2 12.0 TTG U A</b>					
7643	COMPOSITE	3/16	5.0 TTG (MC)		U A	7764	COMPOSITE	(H)	10-12 LTG (ev)(A)(IN)	(.060)	U A
7644	COMPOSITE	1/4	6.0 TTG (MC)		U A	<b>Aluminum Manufacturers Co. Ltd - ALUMATEC ; Jeddah, Saudi Arabia</b>					
7645	COMPOSITE	3/8	10.0 TTG		U A	6151	COMP+CAN	1/4	6.0 TTG		U A
7646	COMPOSITE	1/2	12.0 TTG		U A	6152	COMP+CAN	5/16	8.0 TTG		U A
7647	COMPOSITE	5/8	16.0 TTG		U A	6891	COMP+CAN	3/8	10.0 TTG		U A
8135	COMPOSITE	(H)	8 LTG (b)(A)	(.060)	U A	7346	COMP+CAN	1/2	12.0 TTG (7)		U A
8136	COMPOSITE	(H)	8 LTG (ip)(A)	(.060)	U A	6892	COMP+CAN	(H)	12 LTG (b)(A)	(.030)	U A
7648	COMPOSITE	(H)	12 LTG (lu)(A)(6)	(.090)	U A	<b>Aluminum Technology Auxiliary Industries ; Doha, Qatar</b>					
<b>Aldora Aluminum and Glass Products, Inc. ; Newport News, VA</b>						<b>7197 COMPOSITE 1/4 6.0 TTG U A</b>					
8791	COMPOSITE	1/8	3.0 TTG		U A	7198	COMPOSITE	5/16	8.0 TTG		U A
8792	COMPOSITE	3/16	5.0 TTG		U A	5084	COMPOSITE	3/8	10.0 TTG		U A
8793	COMPOSITE	1/4	6.0 TTG		U A	5212	COMPOSITE	*	12.0 TTG (3)		U A
8794	COMPOSITE	3/8	10.0 TTG		A	<b>American Glass Tempering and Fabricators, Inc. ; Houston, TX</b>					
8795	COMPOSITE	1/2	12.0 TTG		U A	8385	COMPOSITE	1/8	3.0 TTG		U A
8796	COMPOSITE	3/16	5.0 TPG (s)		U A	8406	COMPOSITE	5/32	4.0 TTG (IN)		U A
<b>Aldora Aluminum and Glass Products, Inc. ; Orlando, FL</b>						<b>8386 COMPOSITE 3/16 5.0 TTG U A</b>					
5574	COMPOSITE	1/8	3.0 TTG (MC)		U A	8387	COMPOSITE	1/4	6.0 TTG (MC)		U A
5575	COMPOSITE	3/16	5.0 TTG (MC)		U A	8388	COMPOSITE	3/8	10.0 TTG		U A
5576	COMPOSITE	1/4	6.0 TTG (MC)		U A	8389	COMPOSITE	1/2	12.0 TTG		U A
5579	COMPOSITE	3/8	10.0 TTG		U A	8390	COMPOSITE	3/4	19.0 TTG (IN)		U A
5577	COMPOSITE	1/2	12.0 TTG		U A	<b>American Insulated Glass ; Dallas, NC</b>					
6428	COMPOSITE	(H)	8 LTG (b)(A)	(.060)	U A	3859	COMPOSITE	1/8	3.0 TTG (MC)		U A
6429	COMPOSITE	(H)	8 LTG (ip)(A)	(.060)	U A	3860	COMPOSITE	5/32	4.0 TTG (IN)		U A
<b>All Counties Glass ; Stockton, CA</b>						<b>3861 COMPOSITE 3/16 5.0 TTG (MC) U A</b>					
6409	COMP+CAN	1/8	3.0 TTG		U A	3862	COMPOSITE	1/4	6.0 TTG (MC)		U A
6410	COMP+CAN	5/32	4.0 TTG		U A	3863	COMPOSITE	3/8	10.0 TTG		U A
6411	COMP+CAN	3/16	5.0 TTG		U A	3864	COMPOSITE	1/2	12.0 TTG		U A
6412	COMP+CAN	1/4	6.0 TTG		U A	<b>American Insulated Glass Inc. ; Birmingham, AL</b>					
6413	COMP+CAN	5/16	8.0 TTG		U A	8459	COMPOSITE	1/8	3.0 TTG (MC)		U A
6414	COMP+CAN	3/8	10.0 TTG		U A	8460	COMPOSITE	3/16	5.0 TTG (MC)		U A
6415	COMP+CAN	1/2	12.0 TTG		U A	8461	COMPOSITE	1/4	6.0 TTG (MC)		U A
						8462	COMPOSITE	3/8	10.0 TTG		U A
						8463	COMPOSITE	1/2	12.0 TTG		U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>American Insulated Glass LLC. ; Knoxville, TN</b>						<b>Anthony International ; Madison, GA</b>					
8900	COMPOSITE	1/8	3.0 TTG (MC)		U A	3249	COMPOSITE	1/8	3.0 TTG		U A
8901	COMPOSITE	5/32	4.0 TTG (MC)		U A	3027	COMPOSITE	5/32	4.0 TTG		U A
8902	COMPOSITE	3/16	5.0 TTG (MC)		U A	2352	COMPOSITE	3/16	5.0 TTG		U A
8903	COMPOSITE	1/4	6.0 TTG (MC)		U A	2353	COMPOSITE	1/4	6.0 TTG		U A
8904	COMPOSITE	3/8	10.0 TTG		U A	2453	COMPOSITE	3/8	10.0 TTG		U A
8905	COMPOSITE	1/2	12.0 TTG		U A	6099	COMPOSITE	5/32	4.0 TBG		U A
8906	COMPOSITE	1/8	3.0 TPG (s)		U A	2306	COMPOSITE	3/16	5.0 TBG		U A
8908	COMPOSITE	5/32	4.0 TPG (s)		U A	2307	COMPOSITE	1/4	6.0 TBG		U A
8907	COMPOSITE	3/16	5.0 TPG (m)		U A	<b>Anthony International ; San Fernando, CA</b>					
<b>American Insulated Glass LLC. ; Plymouth Township, MI</b>						520	COMPOSITE	1/8	3.0 TTG (MC)		U A
7834	COMPOSITE	1/8	3.0 TTG		U A	2289	COMPOSITE	5/32	4.0 TTG (MC)		U A
7835	COMPOSITE	3/16	5.0 TTG		U A	999	COMPOSITE	3/16	5.0 TTG (MC)		U A
7836	COMPOSITE	1/4	6.0 TTG		U A	1000	COMPOSITE	1/4	6.0 TTG (MC)		U A
7837	COMPOSITE	3/8	10.0 TTG		U A	<b>Architectural Glass Products, LLC. ; St. Louis, MO</b>					
7875	COMPOSITE	1/8	3.0 TPG (s)		U A	4571	COMPOSITE	1/8	3.0 TTG (MC)		U A
7876	COMPOSITE	3/16	5.0 TPG (s)		U A	4572	COMPOSITE	3/16	5.0 TTG (MC)		U A
<b>American Insulated Glass, LLC ; Conley, GA</b>						4573	COMPOSITE	1/4	6.0 TTG		U A
5283	COMPOSITE	1/8	3.0 TTG		U A	4574	COMPOSITE	3/16	5.0 TPG (s)		U A
5284	COMPOSITE	3/16	5.0 TTG (MC)		U A	<b>ArcTech Glass Ltd. ; Surrey, British Columbia</b>					
5285	COMPOSITE	1/4	6.0 TTG (MC)		U A	8815	COMP+CAN	1/4	6.0 TTG		U A
5286	COMPOSITE	3/8	10.0 TTG		U A	9004	COMP+CAN	5/16	8.0 TTG		U A
5287	COMPOSITE	1/2	12.0 TTG		U A	9005	COMP+CAN	3/8	10.0 TTG		U A
5288	COMPOSITE	1/8	3.0 TPG (s)		U A	9006	COMP+CAN	1/2	12.0 TTG *(3)		U A
5289	COMPOSITE	3/16	5.0 TPG (m)		U A	<b>Arino Duglass ; Zaragoza, Spain</b>					
<b>American Insulated Glass, LLC ; Ijamsville, MD</b>						8757	COMP+CAN	1/4	6.0 TTG		U A
8098	COMPOSITE	3/16	5.0 TTG		U A	8758	COMP+CAN	5/16	8.0 TTG		U A
8099	COMPOSITE	1/4	6.0 TTG (MC)		U A	8759	COMP+CAN	3/8	10.0 TTG		U A
6144	COMPOSITE	3/8	10.0 TTG		U A	8761	COMP+CAN	(H)	16+ TTG (ip)(A)	(.060)	A
6145	COMPOSITE	1/2	12.0 TTG		U A	8760	COMP+CAN	(H)	12, 16+ LTG (b)(A)	(.030)	U A
<b>Amsco Windows ; Salt Lake City, UT</b>						<b>Arlene Stained Glass &amp; Door ; Houston, TX</b>					
2578	COMPOSITE	1/8	3.0 TTG (MC)		U A	5127	COMPOSITE	1/8	3.0 TTG (MC)		U A
4643	COMPOSITE	5/32	4.0 TTG (IN)		U A	3583	COMPOSITE	3/16	5.0 TTG		U A
2580	COMPOSITE	3/16	5.0 TTG (MC)		U A	3584	COMPOSITE	1/4	6.0 TTG		U A
2581	COMPOSITE	1/4	6.0 TTG		U A	3585	COMPOSITE	5/32	4.0 TPG (d)		U A
2582	COMPOSITE	1/8	3.0 TPG (m)		U A	<b>Arrow Mirror &amp; Glass, Inc. ; Houston, TX</b>					
2584	COMPOSITE	3/16	5.0 TPG (m)		U A	8213	COMPOSITE	1/4	6.0 TTG (MC)		U A
<b>Anhui Dahe Mirror Enterprise Co. LTD. ; Wuhu, Anhui</b>						8214	COMPOSITE	3/8	10.0 TTG		U A
8570	COMP+CAN	1/8	3.0 TTG		U A	8215	COMPOSITE	1/2	12.0 TTG		U A
8571	COMP+CAN	3/16	5.0 TTG		U A	<b>ArtVue Glass ; Sarasota, FL</b>					
8572	COMP+CAN	1/4	6.0 TTG		U A	7445	COMPOSITE	(H)	10-16+ LTG (ev)(A)	(.060)	U A
8573	COMP+CAN	5/16	8.0 TTG		U A	7968	COMPOSITE	(H)	12 LTG (ip)(A)(IN)	(.035)	U A
8574	COMP+CAN	3/8	10.0 TTG		U A	<b>Ascent Glass Products (Zhong Shan) Limited ; Zhongshan, Guangdong Province</b>					
8575	COMP+CAN	1/2	12.0 TTG		U A	7929	COMPOSITE	5/32	4.0 TTG		U A
<b>Anhui Xinrongda Glass Co., Ltd. ; Wuhu City, Anhui</b>						7930	COMPOSITE	3/16	5.0 TTG		U A
8539	COMPOSITE	1/8	3.0 TTG		U A	7931	COMPOSITE	1/4	6.0 TTG		U A
<b>AntCam Cam Pazarlama San. Ve Tic. A.S. ; Antalya, Dosemealti</b>						7932	COMPOSITE	5/16	8.0 TTG		U A
8047	COMPOSITE	(H)	16+ LTG (b)(A)	(.030)	U A	7933	COMPOSITE	3/8	10.0 TTG		U A
8046	COMPOSITE	(H)	16+ LTG (ip)(A)	(.035)	U A						

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>ATI Windows ; Riverside, CA</b>						<b>Bel Shower Door Corporation ; Englewood, CO</b>					
5635	COMPOSITE	1/8	3.0 TTG (MC)		U A	6470	COMP+CAN	3/16	5.0 TTG		U A
5636	COMPOSITE	5/32	4.0 TTG (MC)		U A	6471	COMP+CAN	1/4	6.0 TTG		U A
5637	COMPOSITE	3/16	5.0 TTG		U A	6472	COMP+CAN	3/8	10.0 TTG		U A
5638	COMPOSITE	1/4	6.0 TTG		U A	6473	COMP+CAN	1/2	12.0 TTG		U A
8057	COMPOSITE	3/8	10.0 TTG		U A	6474	COMP+CAN	3/16	5.0 TPG (m)		U A
8058	COMPOSITE	1/2	12.0 TTG		U A	<b>Bendheim Wall Systems ; Wunsiedel-Holenbrunn, Bavaria</b>					
5639	COMPOSITE	1/8	3.0 TPG (s)		U A	5145	COMPOSITE	*	6.0 TBP (s)(2)		22x7 A 6
7995	COMPOSITE	5/32	4.0 TPG (m)		U A	5144	COMPOSITE	*	7.0 TBP (d)(2)		14x7 A 6
8614	COMPOSITE (S)		6 LTG (ip)(A)	(.035)	U A	2570	COMPOSITE	*	6.0 TBG (2)		22x7 A 6
8612	COMPOSITE (S)		6 LTG (b)(A)	(.030)	U A	2569	COMPOSITE	*	7.0 TBG (2)		14x7 A 6
8613	COMPOSITE (H)		8-16+ LTG (b)(A)	(.030)	U A	<b>BG Glass Technologies Inc. ; Barrie, Ontario</b>					
8615	COMPOSITE (H)		8-16+ LTG (ip)(A)	(.035)	U A	8137	COMP+CAN	5/32	4.0 TTG		U A
<b>Aurora Windows and Doors ; Fremont, CA</b>						8138	COMP+CAN	3/16	5.0 TTG		U A
8819	COMPOSITE	3/16	5.0 TTG		U A	8139	COMP+CAN	1/4	6.0 TTG		U A
8818	COMPOSITE	1/4	6.0 TTG		U A	8993	COMP+CAN	5/16	8.0 TTG		U A
8820	COMPOSITE	3/8	10.0 TTG		U A	8140	COMP+CAN	3/8	10.0 TTG		U A
8821	COMPOSITE	1/2	12.0 TTG		U A	8141	COMP+CAN	1/2	12.0 TTG		U A
<b>Basco Engineered Products ; Hamilton, OH</b>						<b>Blackline Aluminum Systems ; Markham, Ontario</b>					
4139	COMPOSITE	1/8	3.0 TTG		U A	8117	COMP+CAN	5/32	4.0 TTG		U A
4724	COMPOSITE	3/16	5.0 TTG		U A	8118	COMP+CAN	3/16	5.0 TTG		U A
3810	COMPOSITE	1/4	6.0 TTG		U A	8119	COMP+CAN	1/4	6.0 TTG (MC)		U A
3811	COMPOSITE	3/8	10.0 TTG		U A	8120	COMP+CAN	3/8	10.0 TTG		U A
3812	COMPOSITE	1/2	12.0 TTG		U A	<b>Blue Star Glass Inc. ; North Brunswick, NJ</b>					
5076	COMPOSITE	3/4	19.0 TTG		U A	6782	COMPOSITE	5/32	4.0 TTG (MC)		U A
8106	COMPOSITE	3/16	5.0 TPG (m)		U A	4518	COMPOSITE	3/16	5.0 TTG (MC)		U A
4689	COMPOSITE	1/4	6.0 TPG (s)		U A	4519	COMPOSITE	1/4	6.0 TTG (MC)		U A
5203	COMPOSITE	3/8	10.0 TPG (m)		U A	6407	COMPOSITE	5/16	8.0 TTG (MC)		U A
<b>Beijing NorthTech Haiyangshunda Glass Ltd. ; Daxing District, Beijing</b>						4520	COMPOSITE	3/8	10.0 TTG		U A
6668	COMP+CAN	1/4	6.0 TTG		U A	4521	COMPOSITE	1/2	12.0 TTG		U A
6669	COMP+CAN	5/16	8.0 TTG		U A	5174	COMPOSITE	5/8	16.0 TTG		U A
7562	COMP+CAN	3/8	10.0 TTG		U A	5175	COMPOSITE	3/4	19.0 TTG		U A
6677	COMP+CAN (H)		12-16+ LTG (b)(T)	(.060)	U A	<b>Blue Star Glass Texas, LLC ; Dallas, TX</b>					
<b>Beijing Wuhua Tianbao Glass Co. ; Shunyi District, Beijing</b>						8897	COMPOSITE	3/16	5.0 TTG (MC)		U A
6903	COMP+CAN	5/32	4.0 TTG		U A	8780	COMPOSITE	1/4	6.0 TTG (MC)		U A
6904	COMP+CAN	3/16	5.0 TTG		U A	8898	COMPOSITE	5/16	8.0 TTG		U A
6905	COMP+CAN	1/4	6.0 TTG		U A	<b>Bronco Industries, Inc. ; Delta, British Columbia</b>					
6906	COMP+CAN	5/16	8.0 TTG		U A	6973	COMP+CAN	1/8	3.0 TTG		U A
6907	COMP+CAN	3/8	10.0 TTG		U A	5871	COMP+CAN	5/32	4.0 TTG		U A
6908	COMP+CAN *		12.0 TTG (4)		U A	6974	COMP+CAN	3/16	5.0 TTG		U A
6909	COMP+CAN *		15.0 TTG (4)		U A	5366	COMP+CAN	1/4	6.0 TTG		U A
6910	COMP+CAN	3/4	19.0 TTG		U A	5367	COMP+CAN	3/8	10.0 TTG		U A
7762	COMP+CAN (H)		8-16+ LTG (b)(A)	(.030)	U A	5368	COMP+CAN	1/2	12.0 TTG		U A
7763	COMP+CAN (H)		8-16+ LTG (ip)(A)	(.035)	U A	6972	COMP+CAN	3/4	19.0 TTG		U A
<b>Bel Pre Glassworks Inc. ; Rockville, MD</b>						<b>BVGLAZING SYSTEMS ; Concord, Ontario</b>					
6320	COMPOSITE	1/8	3.0 TTG		U A	6134	COMP+CAN	5/32	4.0 TTG (MC)		U A
6321	COMPOSITE	3/16	5.0 TTG		U A	6135	COMP+CAN	3/16	5.0 TTG (MC)		U A
6322	COMPOSITE	1/4	6.0 TTG		U A	6136	COMP+CAN	1/4	6.0 TTG (MC)		U A
6711	COMPOSITE	3/8	10.0 TTG		U A	6137	COMP+CAN	5/16	8.0 TTG (MC)		U A
6324	COMPOSITE	1/2	12.0 TTG		U A	6138	COMP+CAN	3/8	10.0 TTG		U A
6325	COMPOSITE	3/4	19.0 TTG		U A	6139	COMP+CAN	3/16	5.0 TPG (s)		U A

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>C&amp;C Custom Glass &amp; Tempering, LLC ; Tulsa, OK</b>					<b>Cardinal CG ; Spring Green, WI</b>				
6854	COMPOSITE	5/32	4.0 TTG	U A	2067	COMP+CAN	1/8	3.0 TTG (MC)	U A
6855	COMPOSITE	3/16	5.0 TTG	U A	2068	COMP+CAN	5/32	4.0 TTG (MC)	U A
6856	COMPOSITE	1/4	6.0 TTG	U A	2069	COMP+CAN	3/16	5.0 TTG (MC)	U A
6857	COMPOSITE	5/16	8.0 TTG	U A	2070	COMP+CAN	1/4	6.0 TTG (MC)	U A
6858	COMPOSITE	3/8	10.0 TTG	U A	5281	COMP+CAN	5/16	8.0 TTG	U A
6859	COMPOSITE	1/2	12.0 TTG	U A	2071	COMP+CAN	1/8	3.0 TPG (s)	U A
6860	COMPOSITE	3/4	19.0 TTG (IN)	U A	6802	COMP+CAN	3/16	5.0 TPG (m)	U A
6962	COMPOSITE	5/32	4.0 TPG (s)	U A	<b>Cardinal CG ; Tumwater, WA</b>				
6861	COMPOSITE	3/16	5.0 TPG (s)	U A	2007	COMP+CAN	1/8	3.0 TTG (MC)	U A
6862	COMPOSITE	3/8	10.0 TPG (s)	U A	2008	COMP+CAN	5/32	4.0 TTG (MC)	U A
<b>Cameron Glass, LLC. ; Broken Arrow, OK</b>					2009	COMP+CAN	3/16	5.0 TTG (MC)	U A
4832	COMP+CAN	1/8	3.0 TTG	U A	2010	COMP+CAN	1/4	6.0 TTG (MC)	U A
2501	COMP+CAN	3/16	5.0 TTG	U A	2954	COMP+CAN	1/8	3.0 TPG (s)	U A
2455	COMP+CAN	1/4	6.0 TTG	U A	6723	COMP+CAN	5/32	4.0 TPG (d)	U A
2032	COMP+CAN	3/8	10.0 TTG	U A	2956	COMP+CAN	3/16	5.0 TPG (m)	U A
2033	COMP+CAN	1/2	12.0 TTG	U A	<b>Cardinal CG ; Waxahachie, TX</b>				
<b>Camyapi Cam Paz. Ins. Taah. Tic.ve San. Ltd. Sti ; Kocaeli, Dilovasi</b>					2699	COMP+CAN	1/8	3.0 TTG (MC)	U A
8281	COMP+CAN	3/8	10.0 TTG	U A	2700	COMP+CAN	5/32	4.0 TTG (MC)	U A
8283	COMP+CAN	(H)	16+ LTG (T)(b)	(.060) U A	2701	COMP+CAN	3/16	5.0 TTG (MC)	U A
<b>Cardinal CG ; Buford, GA</b>					2702	COMP+CAN	1/4	6.0 TTG (MC)	U A
1921	COMP+CAN	1/8	3.0 TTG (MC)	U A	8556	COMP+CAN	1/8	3.0 TPG (s)	U A
1922	COMP+CAN	5/32	4.0 TTG	U A	4047	COMP+CAN	5/32	4.0 TPG (m)	U A
1923	COMP+CAN	3/16	5.0 TTG	U A	2705	COMP+CAN	3/16	5.0 TPG (m)	U A
1924	COMP+CAN	1/4	6.0 TTG	U A	<b>Cardinal CT ; Adel, GA</b>				
2146	COMP+CAN	1/8	3.0 TPG (s)	U A	5095	COMP+CAN	1/8	3.0 TTG (MC)	U A
4599	COMP+CAN	3/16	5.0 TPG (s)	U A	5096	COMP+CAN	5/32	4.0 TTG (MC)	U A
<b>Cardinal CG ; Galt, CA</b>					5097	COMP+CAN	3/16	5.0 TTG (MC)	U A
2357	COMPOSITE	1/8	3.0 TTG (MC)	U A	5364	COMP+CAN	1/4	6.0 TTG (MC)	U A
2358	COMPOSITE	5/32	4.0 TTG (MC)	U A	6842	COMP+CAN	5/16	8.0 TTG	U A
2359	COMPOSITE	3/16	5.0 TTG (MC)	U A	6172	COMP+CAN	3/8	10.0 TTG (MC)	U A
2360	COMPOSITE	1/4	6.0 TTG (MC)	U A	6173	COMP+CAN	1/2	12.0 TTG (MC)	U A
3599	COMPOSITE	1/8	3.0 TPG (s)	U A	5098	COMP+CAN	1/8	3.0 TPG (d)	U A
4347	COMPOSITE	5/32	4.0 TPG (d)	U A	5099	COMP+CAN	5/32	4.0 TPG (d)	U A
3601	COMPOSITE	3/16	5.0 TPG (m)	U A	5100	COMP+CAN	3/16	5.0 TPG (d)	U A
<b>Cardinal CG ; Mazomanie, WI</b>					6174	COMP+CAN	1/4	6.0 TPG (d)	U A
4780	COMP+CAN	1/8	3.0 TTG (MC)	U A	6516	COMP+CAN	3/8	10.0 TPG (d)	U A
4781	COMP+CAN	5/32	4.0 TTG (MC)	U A	<b>Cardinal CT ; Casa Grande, AZ</b>				
5306	COMP+CAN	3/16	5.0 TTG (MC)	U A	2878	COMP+CAN	1/8	3.0 TTG (MC)	U A
4783	COMP+CAN	1/4	6.0 TTG (MC)	U A	2879	COMP+CAN	5/32	4.0 TTG (MC)	U A
6552	COMP+CAN	5/16	8.0 TTG (MC)	U A	2880	COMP+CAN	3/16	5.0 TTG (MC)	U A
<b>Cardinal CG ; Northfield, MN</b>					2881	COMP+CAN	1/4	6.0 TTG (MC)	U A
1985	COMP+CAN	1/8	3.0 TTG (MC)	U A	4103	COMP+CAN	1/8	3.0 TPG (m)	U A
1986	COMP+CAN	5/32	4.0 TTG (MC)	U A	4104	COMP+CAN	5/32	4.0 TPG (d)	U A
1987	COMP+CAN	3/16	5.0 TTG (MC)	U A	4105	COMP+CAN	3/16	5.0 TPG (m)	U A
1988	COMP+CAN	1/4	6.0 TTG (MC)	U A	<b>Cardinal CT ; Dixon, CA</b>				
4775	COMP+CAN	5/16	8.0 TTG	U A	8480	COMPOSITE	1/8	3.0 TTG (MC)	U A
4137	COMP+CAN	3/8	10.0 TTG	U A	8481	COMPOSITE	5/32	4.0 TTG (MC)	U A
6534	COMP+CAN	1/2	12.0 TTG	U A	8482	COMPOSITE	3/16	5.0 TTG (MC)	U A
2011	COMP+CAN	1/8	3.0 TPG (s)	U A	2842	COMPOSITE	1/4	6.0 TTG (MC)	U A
2012	COMP+CAN	5/32	4.0 TPG (d)	U A	8674	COMPOSITE	1/8	3.0 TPG (s)	U A
2013	COMP+CAN	3/16	5.0 TPG (m)	U A	8675	COMPOSITE	5/32	4.0 TPG (s)	U A
					8676	COMPOSITE	3/16	5.0 TPG (s)	U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Cardinal CT ; Easton, PA</b>					<b>Cardinal CT ; Utica, OH</b>				
4756	COMP+CAN	1/8	3.0 TTG	U A	4620	COMP+CAN	1/8	3.0 TTG (MC)	U A
4757	COMP+CAN	5/32	4.0 TTG	U A	4621	COMP+CAN	5/32	4.0 TTG (MC)	U A
4758	COMP+CAN	3/16	5.0 TTG	U A	4622	COMP+CAN	3/16	5.0 TTG (MC)	U A
5842	COMP+CAN	1/4	6.0 TTG	U A	5479	COMP+CAN	1/4	6.0 TTG (MC)	U A
4759	COMP+CAN	1/8	3.0 TPG (d)	U A	4623	COMP+CAN	1/8	3.0 TPG (m)	U A
4760	COMP+CAN	5/32	4.0 TPG (s)	U A	4624	COMP+CAN	5/32	4.0 TPG (m)	U A
6143	COMP+CAN	3/16	5.0 TPG (m)	U A	4625	COMP+CAN	3/16	5.0 TPG (m)	U A
<b>Cardinal CT ; Fort Worth, TX</b>					<b>Cardinal FG ; Durant, OK</b>				
7317	COMP+CAN	1/8	3.0 TTG (MC)	U A	2909	COMP+CAN	1/8	3.0 TTG (MC)	U A
7318	COMP+CAN	5/32	4.0 TTG (MC)	U A	2910	COMP+CAN	5/32	4.0 TTG	U A
7319	COMP+CAN	3/16	5.0 TTG (MC)	U A	2911	COMP+CAN	3/16	5.0 TTG	U A
7320	COMP+CAN	1/4	6.0 TTG (MC)	U A	2912	COMP+CAN	1/4	6.0 TTG	U A
7321	COMP+CAN	1/8	3.0 TPG (m)	U A	<b>Cardinal FG ; Greenland, TN</b>				
7323	COMP+CAN	5/32	4.0 TPG (m)	U A	598	COMP+CAN	1/8	3.0 TTG (MC)	U A
7322	COMP+CAN	3/16	5.0 TPG (m)	U A	955	COMP+CAN	5/32	4.0 TTG (MC)	U A
<b>Cardinal CT ; Los Angeles, CA</b>					220	COMP+CAN	3/16	5.0 TTG (MC)	U A
5085	COMP+CAN	1/8	3.0 TTG (MC)	U A	89	COMP+CAN	1/4	6.0 TTG (MC)	U A
5086	COMP+CAN	5/32	4.0 TTG (MC)	U A	<b>Cardinal IG ; Buckeye, AZ</b>				
5087	COMP+CAN	3/16	5.0 TTG (MC)	U A	6556	COMP+CAN	1/8	3.0 TTG (MC)	U A
5991	COMP+CAN	1/4	6.0 TTG (MC)	U A	6522	COMP+CAN	5/32	4.0 TTG (MC)	U A
5088	COMP+CAN	1/8	3.0 TPG (s)	U A	6523	COMP+CAN	3/16	5.0 TTG (MC)	U A
5089	COMP+CAN	3/16	5.0 TPG (s)	U A	6524	COMP+CAN	1/4	6.0 TTG (MC)	U A
<b>Cardinal CT ; Loveland, CO</b>					6557	COMP+CAN	5/16	8.0 TTG (MC)	U A
3579	COMPOSITE	1/8	3.0 TTG (MC)	U A	7491	COMP+CAN	1/8	3.0 TPG (m)	U A
3580	COMPOSITE	5/32	4.0 TTG (MC)	U A	6525	COMP+CAN	5/32	4.0 TPG (d)	U A
3581	COMPOSITE	3/16	5.0 TTG (MC)	U A	6559	COMP+CAN	3/16	5.0 TPG (m)	U A
3555	COMPOSITE	1/4	6.0 TTG (MC)	U A	<b>Cardinal IG ; Fargo, ND</b>				
8870	COMPOSITE	3/8	10.0 TTG	U A	2235	COMP+CAN	1/8	3.0 TTG (MC)	U A
8969	COMPOSITE	1/2	12.0 TTG	U A	2234	COMP+CAN	5/32	4.0 TTG (MC)	U A
4343	COMPOSITE	1/8	3.0 TPG (s)	U A	2233	COMP+CAN	3/16	5.0 TTG (MC)	U A
4344	COMPOSITE	5/32	4.0 TPG (d)	U A	2232	COMP+CAN	1/4	6.0 TTG (MC)	U A
4345	COMPOSITE	3/16	5.0 TPG (m)	U A	7067	COMP+CAN	5/16	8.0 TTG (MC)	U A
5720	COMPOSITE	1/4	6.0 TPG (d)	U A	2231	COMP+CAN	1/8	3.0 TPG (s)	U A
<b>Cardinal CT ; Moreno Valley, CA</b>					2285	COMP+CAN	5/32	4.0 TPG (m)	U A
2293	COMP+CAN	1/8	3.0 TTG (MC)	U A	2286	COMP+CAN	3/16	5.0 TPG (s)	U A
2294	COMP+CAN	5/32	4.0 TTG (MC)	U A	<b>Cardinal IG ; Fremont, IN</b>				
2295	COMP+CAN	3/16	5.0 TTG (MC)	U A	2176	COMP+CAN	1/8	3.0 TTG (MC)	U A
2296	COMP+CAN	1/4	6.0 TTG (MC)	U A	2177	COMP+CAN	5/32	4.0 TTG (MC)	U A
5335	COMP+CAN	1/8	3.0 TPG (s)	U A	2178	COMP+CAN	3/16	5.0 TTG (MC)	U A
5336	COMP+CAN	3/16	5.0 TPG (m)	U A	2179	COMP+CAN	1/4	6.0 TTG (MC)	U A
<b>Cardinal CT ; Mount Airy, NC</b>					2203	COMP+CAN	1/8	3.0 TPG (s)	U A
4578	COMP+CAN	1/8	3.0 TTG (MC)	U A	2204	COMP+CAN	5/32	4.0 TPG (m)	U A
4579	COMP+CAN	5/32	4.0 TTG (MC)	U A	2205	COMP+CAN	3/16	5.0 TPG (s)	U A
4580	COMP+CAN	3/16	5.0 TTG (MC)	U A	<b>Cardinal IG ; Greenfield, IA</b>				
8134	COMP+CAN	1/4	6.0 TTG	U A	1827	COMP+CAN	1/8	3.0 TTG (MC)	U A
4581	COMP+CAN	1/8	3.0 TPG (m)	U A	1828	COMP+CAN	5/32	4.0 TTG (MC)	U A
4742	COMP+CAN	5/32	4.0 TPG (s)	U A	1829	COMP+CAN	3/16	5.0 TTG (MC)	U A
4582	COMP+CAN	3/16	5.0 TPG (m)	U A	1830	COMP+CAN	1/4	6.0 TTG (MC)	U A
					5435	COMP+CAN	5/16	8.0 TTG	U A
					1841	COMP+CAN	1/8	3.0 TPG (s)	U A
					1842	COMP+CAN	5/32	4.0 TPG (d)	U A
					1843	COMP+CAN	3/16	5.0 TPG (s)	U A

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Cardinal IG ; Hood River, OR</b>					<b>Cardinal IG ; Vinton, VA</b>				
2831	COMP+CAN	1/8	3.0 TTG (MC)	U A	2919	COMP+CAN	1/8	3.0 TTG (MC)	U A
2858	COMP+CAN	5/32	4.0 TTG (MC)	U A	2920	COMP+CAN	5/32	4.0 TTG (MC)	U A
2833	COMP+CAN	3/16	5.0 TTG (MC)	U A	2921	COMP+CAN	3/16	5.0 TTG (MC)	U A
2834	COMP+CAN	1/4	6.0 TTG (MC)	U A	2922	COMP+CAN	1/4	6.0 TTG (MC)	U A
7926	COMP+CAN	5/16	8.0 TTG	U A	2923	COMP+CAN	1/8	3.0 TPG (s)	U A
2857	COMP+CAN	1/8	3.0 TPG (s)	U A	2924	COMP+CAN	5/32	4.0 TPG (d)	U A
4836	COMP+CAN	5/32	4.0 TPG (d)	U A	3619	COMP+CAN	3/16	5.0 TPG (s)	U A
2859	COMP+CAN	3/16	5.0 TPG (m)	U A	<b>Cardinal IG ; Waxahachie, TX</b>				
<b>Cardinal IG ; Mountain Top, PA</b>					2328	COMP+CAN	1/8	3.0 TTG (MC)	U A
3068	COMP+CAN	1/8	3.0 TTG (MC)	U A	2329	COMP+CAN	5/32	4.0 TTG (MC)	U A
3069	COMP+CAN	5/32	4.0 TTG (MC)	U A	2330	COMP+CAN	3/16	5.0 TTG (MC)	U A
3070	COMP+CAN	3/16	5.0 TTG (MC)	U A	2331	COMP+CAN	1/4	6.0 TTG	U A
3071	COMP+CAN	1/4	6.0 TTG (MC)	U A	2397	COMP+CAN	1/8	3.0 TPG (m)	U A
8655	COMP+CAN	1/8	3.0 TPG (m)	U A	8921	COMP+CAN	5/32	4.0 TPG (d)	U A
3115	COMP+CAN	5/32	4.0 TPG (d)	U A	2399	COMP+CAN	3/16	5.0 TPG (m)	U A
3072	COMP+CAN	3/16	5.0 TPG (m)	U A	<b>Cardinal LG ; Amery, WI</b>				
<b>Cardinal IG ; Ocala, FL</b>					8255	COMP+CAN	5/32	4.0 TTG (MC)	U A
8846	COMP+CAN	1/8	3.0 TTG (MC)	U A	5193	COMP+CAN	3/16	5.0 TTG (MC)	U A
8847	COMP+CAN	5/32	4.0 TTG (MC)	U A	4841	COMP+CAN	1/4	6.0 TTG (MC)	U A
8848	COMP+CAN	3/16	5.0 TTG (MC)	U A	4842	COMP+CAN	5/16	8.0 TTG	U A
8849	COMP+CAN	1/4	6.0 TTG (MC)	U A	4843	COMP+CAN	3/8	10.0 TTG	U A
8850	COMP+CAN	1/8	3.0 TPG (m)	U A	4844	COMP+CAN	1/2	12.0 TTG	U A
8851	COMP+CAN	3/16	5.0 TPG (m)	U A	6484	COMP+CAN	5/8	16.0 TTG (IN)	U A
8852	COMP+CAN	1/4	6.0 TPG (s)	U A	4350	COMP+CAN	(S)	5-6 LTG (ip)(A) (.035)	U A
<b>Cardinal IG ; Ocala, FL (Old Location)</b>					4120	COMP+CAN	(S)	5 LTG (b)(A) (.015)(C1)	U B
3505	COMPOSITE	1/8	3.0 TTG (MC)	U A	2976	COMP+CAN	(S)	5-6 LTG (b)(A) (.030)	U A
3506	COMPOSITE	5/32	4.0 TTG (MC)	U A	4351	COMP+CAN	(H)	8-16+ LTG (ip)(A) (.035)	U A
3507	COMPOSITE	3/16	5.0 TTG (MC)	U A	2462	COMP+CAN	(H)	8-16+ LTG (b)(A) (.030)	U A
3508	COMPOSITE	1/4	6.0 TTG (MC)	U A	8336	COMP+CAN	(H)	16+ LSP (b)(A)(IN) .060X2 ECX1	U A
4584	COMPOSITE	1/8	3.0 TPG (m)	U A	<b>Cardinal LG ; Statesboro, GA</b>				
4587	COMPOSITE	1/4	6.0 TPG (s)	U A	2314	COMP+CAN	3/16	5.0 TTG	U A
3509	COMPOSITE	(S)	6 LTG (b)(A) (.030)	U A	2310	COMP+CAN	1/4	6.0 TTG	U A
6100	COMP+CAN	(S)	6 LTG (ip)(A) (.035)	U A	4720	COMP+CAN	5/16	8.0 TTG	U A
3510	COMPOSITE	(H)	8-12 LTG (b)(A) (.030)	U A	2311	COMP+CAN	3/8	10.0 TTG	U A
4362	COMPOSITE	(H)	8-12 LTG (ip)(A) (.035)	U A	8893	COMP+CAN	(S)	6 LTG (ip)(A) (.035)	U A
<b>Cardinal IG ; Spring Green, WI</b>					7591	COMP+CAN	(S)	6 LTG (b)(A) (.030)	U A
1831	COMP+CAN	1/8	3.0 TTG (MC)	U A	8672	COMP+CAN	(H)	8 LTG (ip)(A) (.035)	U A
5910	COMP+CAN	5/32	4.0 TTG (MC)	U A	4779	COMP+CAN	(H)	8-16+ LTG (b)(A) (.030)	U A
5911	COMP+CAN	3/16	5.0 TTG (MC)	U A	<b>Cardinal LG Northeast ; Jessup, PA</b>				
1834	COMP+CAN	1/4	6.0 TTG (MC)	U A	7496	COMP+CAN	1/8	3.0 TTG	U A
1844	COMP+CAN	1/8	3.0 TPG (s)	U A	7497	COMP+CAN	5/32	4.0 TTG	U A
1845	COMP+CAN	5/32	4.0 TPG (m)	U A	7498	COMP+CAN	3/16	5.0 TTG (MC)	U A
5912	COMP+CAN	3/16	5.0 TPG (s)	U A	7499	COMP+CAN	1/4	6.0 TTG	U A
<b>Cardinal IG ; Tomah, WI</b>					7500	COMP+CAN	5/16	8.0 TTG	U A
2317	COMP+CAN	1/8	3.0 TTG (MC)	U A	7549	COMP+CAN	3/8	10.0 TTG	U A
2318	COMP+CAN	5/32	4.0 TTG (MC)	U A	7550	COMP+CAN	1/2	12.0 TTG	U A
2319	COMP+CAN	3/16	5.0 TTG (MC)	U A	5224	COMP+CAN	(S)	5-6 LTG (b)(A) (.030)	U A
2320	COMP+CAN	1/4	6.0 TTG (MC)	U A	6617	COMP+CAN	(S)	5-6 LTG (ip)(A) (.035)	U A
6069	COMP+CAN	5/16	8.0 TTG	U A	6618	COMP+CAN	(H)	8-12 LTG (ip)(A) (.035)	U A
2321	COMP+CAN	1/8	3.0 TPG (m)	U A	<b>Cardinal TG ; Chehalis, WA</b>				
2322	COMP+CAN	5/32	4.0 TPG (d)	U A	3455	COMP+CAN	1/8	3.0 TTG	U A
2323	COMP+CAN	3/16	5.0 TPG (d)	U A	3456	COMP+CAN	5/32	4.0 TTG	U A
					3458	COMP+CAN	3/16	5.0 TTG	U A
					3459	COMP+CAN	1/4	6.0 TTG	U A



Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Carey Glass UC ; Nenagh, Co. Tipperary</b>						<b>Changshu ZhongXin Building Materials Co., Ltd. ; Changshu, Jiangsu</b>					
5998	COMP+CAN	1/4	6.0 TTG (MC)		U A	2432	COMP+CAN	1/8	3.0 TTG (MC)		U A
5999	COMP+CAN	5/16	8.0 TTG (MC)		U A	6191	COMP+CAN	5/32	4.0 TTG (MC)		U A
6000	COMP+CAN	3/8	10.0 TTG (MC)		U A	6475	COMP+CAN	3/16	5.0 TTG (MC)		U A
6001	COMP+CAN	(H)	12-16+ LTG (b)(A)	(.060)	U A	6499	COMP+CAN	1/4	6.0 TTG		U A
7333	COMP+CAN	(H)	12-16+ LTG (ip)(A)	(.060)	U A	6500	COMP+CAN	5/16	8.0 TTG		U A
<b>Cat-I Manufacturing, Inc. ; South Elgin, IL</b>						<b>Changshu Zhouxing Craft Glass Factory ; Changshu, Jiangsu</b>					
8076	COMP+CAN	1/8	3.0 TTG	24x3 A 6		4363	COMP+CAN	(H)	8 LTG (b)(A)	(.090)	U A
5755	COMP+CAN	5/32	4.0 TTG	24x3 A 6		<b>Chicago Tempered Glass, Inc. ; Chicago, IL</b>					
<b>Central Florida Glass &amp; Mirror, Inc ; Sebring, FL</b>						<b>Changshu ZhongXin Building Materials Co., Ltd. ; Changshu, Jiangsu</b>					
8970	COMPOSITE	3/16	5.0 TTG		U A	4936	COMP+CAN	1/8	3.0 TTG		U A
8971	COMPOSITE	1/4	6.0 TTG		U A	<b>Chicago Tempered Glass, Inc. ; Chicago, IL</b>					
8972	COMPOSITE	3/8	10.0 TTG		U A	3086	COMPOSITE	5/32	4.0 TTG		U A
8973	COMPOSITE	1/2	12.0 TTG		U A	3087	COMPOSITE	3/16	5.0 TTG (MC)		U A
<b>Central Valley Glass &amp; Screen, Inc. ; Sacramento, CA</b>						<b>Chicago Tempered Glass, Inc. ; Chicago, IL</b>					
7551	COMPOSITE	1/8	3.0 TTG (MC)		U A	3088	COMPOSITE	1/4	6.0 TTG (MC)		U A
7552	COMPOSITE	5/32	4.0 TTG (MC)		U A	3089	COMPOSITE	3/8	10.0 TTG		U A
7553	COMPOSITE	3/16	5.0 TTG (MC)		U A	3090	COMPOSITE	1/2	12.0 TTG		U A
7554	COMPOSITE	1/4	6.0 TTG (MC)		U A	8710	COMPOSITE	(H)	10, 12 LTG (b)(A)	(.030)	U A
7555	COMPOSITE	3/8	10.0 TTG		U A	6714	COMPOSITE	(H)	12 LTG (ip)(A)(IN)	(.035)	U A
7556	COMPOSITE	1/2	12.0 TTG		U A	<b>Chongqing SYP Engineering Glass Co., Ltd. ; Qijiang District, Chongqing</b>					
<b>CGMI Acquisition Company LLC dba Clearlight Glass and Mirror ; Kernersville, NC</b>						<b>Chongqing SYP Engineering Glass Co., Ltd. ; Qijiang District, Chongqing</b>					
7809	COMP+CAN	1/8	3.0 TTG		U A	6810	COMP+CAN	1/4	6.0 TTG		U A
7239	COMP+CAN	3/16	5.0 TTG		U A	6811	COMP+CAN	5/16	8.0 TTG		U A
7240	COMP+CAN	1/4	6.0 TTG		U A	6812	COMP+CAN	3/8	10.0 TTG		U A
7243	COMP+CAN	3/8	10.0 TTG		U A	6813	COMP+CAN	*	12.0 TTG (3)		U A
7241	COMP+CAN	1/2	12.0 TTG		U A	6814	COMP+CAN	(H)	12-16+ LTG (b)(A)	(.030)	U A
<b>Changshu Fardglass Co. Ltd. ; Changshu, Jiangsu</b>						<b>Chongqing SYP Engineering Glass Co., Ltd. ; Qijiang District, Chongqing</b>					
6684	COMP+CAN	1/8	3.0 TTG (MC)		U A	6815	COMP+CAN	(H)	12-16+ LTG (ip)(A)	(.060)	U A
<b>ChangShu MayBo Glass Co., Ltd ; Changshu, Jiangsu</b>						<b>Ciraylar Cam Insaat Malzemeleri San. VE TIC. A.S. ; Karatay, Konya</b>					
7115	COMPOSITE	1/8	3.0 TTG		U A	8743	COMPOSITE	3/16	5.0 TTG		U A
7114	COMPOSITE	5/32	4.0 TTG		U A	8744	COMPOSITE	1/4	6.0 TTG		U A
7116	COMPOSITE	3/16	5.0 TTG		U A	8745	COMPOSITE	5/16	8.0 TTG		U A
<b>Changshu Mingyang Glass Products Co., Ltd. ; Changshu, Jiangsu</b>						<b>Ciraylar Cam Insaat Malzemeleri San. VE TIC. A.S. ; Karatay, Konya</b>					
8553	COMPOSITE	1/8	3.0 TTG		U A	8746	COMPOSITE	3/8	10.0 TTG		U A
8853	COMPOSITE	5/32	4.0 TTG		U A	8747	COMPOSITE	*	12.0 TTG (3)		U A
8766	COMPOSITE	1/4	6.0 TTG		U A	8748	COMPOSITE	(H)	10-16+ LTG (b)(A)	(.060)	U A
8767	COMPOSITE	5/16	8.0 TTG		U A	<b>Cleer Vision Tempered Glass ; Elkhart, IN</b>					
8854	COMPOSITE	3/8	10.0 TTG		U A	4546	COMP+CAN	1/8	3.0 TTG (MC)		U A
<b>Changshu Weier Glass Products Co. Ltd. ; Changshu, Jiangsu</b>						<b>Cleer Vision Tempered Glass ; Elkhart, IN</b>					
5351	COMPOSITE	1/8	3.0 TTG		U A	8652	COMP+CAN	5/32	4.0 TTG		U A
5352	COMPOSITE	5/32	4.0 TTG		U A	8653	COMP+CAN	3/16	5.0 TTG		U A
5353	COMPOSITE	3/16	5.0 TTG		U A	7630	COMP+CAN	1/4	6.0 TTG		U A
5354	COMPOSITE	1/4	6.0 TTG		U A	8654	COMP+CAN	1/8	3.0 TPG (m)		U A
<b>Changshu Xingfu Glass Building Material Co., LTD ; Changshu, Jiangsu</b>						<b>Clinton Glass Company ( Middlebrook Pike ) ; Knoxville, TN</b>					
4657	COMP+CAN	1/8	3.0 TTG		U A	7543	COMPOSITE	1/4	6.0 TTG		U A
5151	COMP+CAN	5/16	8.0 TTG		U A	7831	COMPOSITE	5/16	8.0 TTG		U A
5152	COMP+CAN	3/8	10.0 TTG		U A	7544	COMPOSITE	3/8	10.0 TTG		U A
						<b>Colorkote CT, LLC ; Stratford, CT</b>					
						<b>Comercial Dialum SA ; Lampa, Santiago</b>					
						7095	COMP+CAN	(H)	10-12 LTG (ev)(A)	(.060)	U A
						8581	COMPOSITE	(H)	8 LTG (b)(A)	(.090)	U A
						5938	COMPOSITE	(H)	12 LTG (ip)(A)	(.035)	U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Commercial Insulating Glass Co. ; Cumberland City, TN</b>						<b>Control Glass, A&amp;S, S.L. ; Teruel, Spain</b>					
3806	COMPOSITE	1/8	3.0 TTG		U A	7791	COMP+CAN	5/32	4.0 TTG		U A
3807	COMPOSITE	3/16	5.0 TTG		U A	7792	COMP+CAN	1/4	6.0 TTG		U A
3808	COMPOSITE	1/4	6.0 TTG		U A	7793	COMP+CAN	3/8	10.0 TTG		U A
<b>Compagnie de Portes Énergétique EDC (Energy Door Company) ; L'Assomption, Quebec</b>						7988 COMP+CAN * 12.0 TTG (4) U A					
7192	COMP+CAN	5/32	4.0 TTG		U A	7794	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
<b>Complete Line Glass Wholesalers, Inc. ; San Antonio, TX</b>						7795 COMP+CAN (H) 12-16+ LTG (ip)(A) (.060) U A					
7565	COMPOSITE	1/8	3.0 TTG (MC)		U A	<b>Coral Industries Glass Division ; Tuscaloosa, AL</b>					
7566	COMPOSITE	5/32	4.0 TTG		U A	1910	COMPOSITE	3/16	5.0 TTG		U A
7567	COMPOSITE	3/16	5.0 TTG (MC)		U A	1911	COMPOSITE	1/4	6.0 TTG		U A
7568	COMPOSITE	1/4	6.0 TTG (MC)		U A	2144	COMPOSITE	3/8	10.0 TTG		U A
7569	COMPOSITE	3/8	10.0 TTG		U A	2145	COMPOSITE	1/2	12.0 TTG		U A
7570	COMPOSITE	3/16	5.0 TPG (m)		U A	1964	COMPOSITE	3/16	5.0 TPG (m)		U A
7572	COMPOSITE	3/8	10.0 TPG (s)		U A	2944	COMPOSITE	1/4	6.0 TPG (d)		U A
<b>Consolidated Glass Corp. ; New Castle, PA</b>						2945 COMPOSITE 3/8 10.0 TPG (d) U A					
1998	COMP+CAN	1/8	3.0 TTG		U A	<b>Crystal Tempering, Inc. ; Debary, FL</b>					
1999	COMP+CAN	5/32	4.0 TTG		U A	6209	COMPOSITE	3/16	5.0 TTG		U A
2005	COMP+CAN	3/16	5.0 TTG		U A	6210	COMPOSITE	1/4	6.0 TTG		U A
2002	COMP+CAN	1/4	6.0 TTG		U A	6211	COMPOSITE	3/8	10.0 TTG		U A
3635	COMP+CAN	5/16	8.0 TTG		U A	6212	COMPOSITE	1/2	12.0 TTG		U A
2003	COMP+CAN	3/8	10.0 TTG		U A	6214	COMPOSITE	3/16	5.0 TPG (m)		U A
2004	COMP+CAN	1/2	12.0 TTG		U A	6215	COMPOSITE	1/4	6.0 TPG (s)		U A
2355	COMP+CAN	5/32	4.0 TPG (m)		U A	6216	COMPOSITE	3/8	10.0 TPG (s)		U A
2354	COMP+CAN	3/16	5.0 TPG (m)		U A	<b>CS ECO Glass (M) Sdn Bhd ; Sungai Gadut, Negeri Sembilan</b>					
4714	COMP+CAN	1/4	6.0 TPG (m)		U A	6867	COMPOSITE	3/16	5.0 TTG (IN)		U A
4785	COMP+CAN	3/8	10.0 TPG (s)		U A	6868	COMPOSITE	1/4	6.0 TTG (IN)		U A
8919	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	6869	COMPOSITE	5/16	8.0 TTG (IN)		U A
8920	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	6870	COMPOSITE	3/8	10.0 TTG (IN)		U A
<b>Contour Industries, Inc. ; Surgoinville, TN</b>						6871 COMPOSITE 1/2 12.0 TTG (IN) U A					
1680	COMP+CAN	1/8	3.0 TTG (MC)		U A	8239	COMPOSITE	(H)	10-16+ LTG (b)(A)(IN)	(.015)	U A
4285	COMP+CAN	5/32	4.0 TTG		U A	<b>Curved Glass Creations, LLC ; Pompano Beach, FL</b>					
1678	COMP+CAN	3/16	5.0 TTG		U A	7113	COMPOSITE	(H)	10-16+ LTG (ev)(A)	(.060)	U A
1677	COMP+CAN	1/4	6.0 TTG		U A	<b>Custom Glass Products Inc. ; Weston, WI</b>					
4701	COMP+CAN	5/16	8.0 TTG		U A	4002	COMPOSITE	1/4	6.0 TTG (MC)		U A
4702	COMP+CAN	3/8	10.0 TTG		U A	6671	COMPOSITE	1/2	12.0 TTG (MC)		U A
4703	COMP+CAN	1/8	3.0 TPG (s)		U A	<b>D3 Glass, LLC ; Fort Myers, FL</b>					
4704	COMP+CAN	5/32	4.0 TPG (s)(IN)		U A	7627	COMPOSITE	1/4	6.0 TTG		U A
4705	COMP+CAN	3/16	5.0 TPG (s)		U A	7628	COMPOSITE	3/8	10.0 TTG		U A
<b>Contractors Wardrobe ; Valencia, CA</b>						7629 COMPOSITE 1/2 12.0 TTG U A					
3464	COMP+CAN	1/8	3.0 TTG		U A	7626	COMPOSITE	3/8	10.0 TPG (s)		U A
3465	COMP+CAN	5/32	4.0 TTG		U A	8442	COMPOSITE	(H)	12 LTG (ip)(A)	(.035)	U A
3466	COMP+CAN	3/16	5.0 TTG		U A	8443	COMPOSITE	(H)	12 LTG (b)(A)	(.030)	U A
3467	COMP+CAN	1/4	6.0 TTG		U A	<b>Dalian Huaying Glass Limited Liability Co. ; Dalian, Liaoning</b>					
3468	COMP+CAN	5/16	8.0 TTG		U A	5260	COMP+CAN	1/8	3.0 TTG		U A
3469	COMP+CAN	3/8	10.0 TTG		U A	6639	COMP+CAN	5/32	4.0 TTG		U A
3470	COMP+CAN	1/2	12.0 TTG		U A	5261	COMP+CAN	3/16	5.0 TTG		U A
3472	COMP+CAN	3/4	19.0 TTG		U A	<b>Dallas Flat Glass ; Carrollton, TX</b>					
3473	COMP+CAN	1/8	3.0 TPG (m)		U A	4790	COMPOSITE	1/8	3.0 TTG (MC)		U A
3474	COMP+CAN	5/32	4.0 TPG (d)		U A	4763	COMPOSITE	3/16	5.0 TTG (MC)		U A
3475	COMP+CAN	3/16	5.0 TPG (m)		U A	3701	COMPOSITE	1/4	6.0 TTG (MC)		U A
3476	COMP+CAN	1/4	6.0 TPG (s)		U A	4566	COMPOSITE	3/8	10.0 TTG		U A
3477	COMP+CAN	3/8	10.0 TPG (s)		U A	4567	COMPOSITE	1/2	12.0 TTG		U A
						8174	COMPOSITE	3/4	19.0 TTG		U A

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Denver Glass Interiors, Inc. ; Englewood, CO</b>						<b>Dongguan Dongfa Chuangfu Special Glass Technology Company Limited ; Dongguan, Guangdong Province</b>					
3865	COMPOSITE	3/16	5.0 TTG		U A	4132	COMP+CAN	5/16	8.0 TTG		U A
3866	COMPOSITE	1/4	6.0 TTG		U A	4125	COMP+CAN	3/8	10.0 TTG		U A
3867	COMPOSITE	3/8	10.0 TTG		U A	4126	COMP+CAN	*	12.0 TTG (3)		U A
3868	COMPOSITE	1/2	12.0 TTG		U A	7620	COMP+CAN	*	15.0 TTG (4)		U A
4507	COMPOSITE	1/4	6.0 TPG (m)		U A	7621	COMP+CAN	3/4	19.0 TTG		U A
4508	COMPOSITE	3/8	10.0 TPG (s)		U A	4123	COMP+CAN	(H)	12-16+ LTG (b)(A)	(.030)	U A
6916	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030)	U A	<b>Dost Cam Sanayi ve Ticaret A.S. ; Cigli, Izmir</b>					
6902	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.060)	U A	8976	COMPOSITE	5/32	4.0 TTG		U A
<b>Deqing Sanxing Plastic Chemical Co. Ltd. ; Huzhou, Zhejiang</b>						8977	COMPOSITE	3/16	5.0 TTG		U A
4055	COMPOSITE	1/8	3.0 TTG		U A	8978	COMPOSITE	1/4	6.0 TTG		U A
4056	COMPOSITE	5/32	4.0 TTG		U A	8962	COMPOSITE	5/16	8.0 TTG		U A
4057	COMPOSITE	3/16	5.0 TTG		U A	8963	COMPOSITE	3/8	10.0 TTG		U A
4146	COMPOSITE	1/4	6.0 TTG		U A	8964	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030)	U A
4147	COMPOSITE	3/8	10.0 TTG		U A	8965	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.035)	U A
<b>Diamond Glass ; Dublin, Ireland</b>						<b>Double Seal Insulating Glass Ltd. ; Toronto, Ontario</b>					
8302	COMP+CAN	5/16	8.0 TTG		U A	8307	COMP+CAN	1/8	3.0 TTG (MC)		U A
8303	COMP+CAN	3/8	10.0 TTG		U A	8308	COMP+CAN	5/32	4.0 TTG (MC)		U A
8304	COMP+CAN	1/2	12.0 TTG (3)		U A	8309	COMP+CAN	3/16	5.0 TTG		U A
8306	COMP+CAN	(H)	10,12 LTG (ip)(T)	(.060)	U A	8310	COMP+CAN	1/4	6.0 TTG (MC)		U A
8305	COMP+CAN	(H)	10-16+ LTG (b)(T)	(.060)	U A	<b>Downey Glass ; Pompano Beach, FL</b>					
<b>Dillmeier Enterprise, Inc. ; Van Buren, AR</b>						2661	COMPOSITE	3/16	5.0 TTG		U A
4838	COMPOSITE	1/8	3.0 TTG		U A	2662	COMPOSITE	1/4	6.0 TTG		U A
3912	COMPOSITE	3/16	5.0 TTG		U A	5554	COMPOSITE	5/16	8.0 TTG		U A
3913	COMPOSITE	1/4	6.0 TTG		U A	2663	COMPOSITE	3/8	10.0 TTG		U A
4839	COMPOSITE	5/16	8.0 TTG		U A	2664	COMPOSITE	1/2	12.0 TTG		U A
3914	COMPOSITE	3/8	10.0 TTG		U A	2665	COMPOSITE	3/4	19.0 TTG		U A
3915	COMPOSITE	1/2	12.0 TTG		U A	5121	COMPOSITE	(S)	6 LTG (ip)(A)	(.035)	U A
3916	COMPOSITE	5/8	16.0 TTG		U A	5121	COMPOSITE	(S)	6 LTG (ip)(A)	(.035)	U A
3917	COMPOSITE	3/4	19.0 TTG		U A	5122	COMPOSITE	(H)	10-16+ LTG (ip)(A)	(.035)	U A
7947	COMP+CAN	(S)	6 LTG (ev)(T)	(.015)	U A	<b>Dulles Glass ; Manassas, VA</b>					
8110	COMP+CAN	(H)	10 LTG (ev)(A)	(.045)	U A	4918	COMPOSITE	3/16	5.0 TTG		U A
8088	COMP+CAN	(H)	10 LTG (ev)(T)	(.015)	U A	4061	COMPOSITE	1/4	6.0 TTG		U A
8347	COMP+CAN	(H)	10 LTG (ev)(A)	(.015)	U B	4062	COMPOSITE	3/8	10.0 TTG		U A
<b>Dios (Tianjin) Industrial Limited Company ; Hexi District, Tianjin</b>						4063	COMPOSITE	1/2	12.0 TTG		U A
9041	COMP+CAN	1/8	3.0 TTG		U A	5123	COMPOSITE	3/8	10.0 TPG (s)		U A
9042	COMP+CAN	1/4	6.0 TTG		U A	<b>Echols Glass and Mirror, Inc. ; Buford, GA</b>					
9043	COMP+CAN	5/16	8.0 TTG		U A	7712	COMPOSITE	1/8	3.0 TTG		U A
<b>Dolphin Glass Specialists, LLC ; Miami Gardens, FL</b>						6314	COMPOSITE	3/16	5.0 TTG		U A
7840	COMPOSITE	1/4	6.0 TTG		U A	6315	COMPOSITE	1/4	6.0 TTG		U A
8779	COMPOSITE	(H)	12 LTG (b)(A)	(.030)	U A	6316	COMPOSITE	3/8	10.0 TTG		U A
<b>Dongguan CSG Architectural Glass Co., Ltd. ; Dongguan, Guangdong Province</b>						6317	COMPOSITE	1/2	12.0 TTG		U A
3932	COMP+CAN	5/32	4.0 TTG		U A	6318	COMPOSITE	3/16	5.0 TPG (m)		U A
3933	COMP+CAN	3/16	5.0 TTG		U A	6319	COMPOSITE	3/8	10.0 TPG (s)		U A
3934	COMP+CAN	1/4	6.0 TTG		U A	<b>ECO Glass Production ; Medley, FI</b>					
3935	COMP+CAN	5/16	8.0 TTG		U A	8367	COMP+CAN	1/8	3.0 TTG		U A
3936	COMP+CAN	3/8	10.0 TTG		U A	8369	COMP+CAN	3/16	5.0 TTG		U A
3937	COMP+CAN	*	12.0 TTG (3)		U A	8370	COMP+CAN	1/4	6.0 TTG		U A
3938	COMP+CAN	*	15.0 TTG (3)		U A	8371	COMP+CAN	(S)	6 LTG (ip)(A)	(.035)	U A
3939	COMP+CAN	3/4	19.0 TTG		U A	8368	COMP+CAN	(H)	8 LTG (ip)(A)	(.035)	U A
4167	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	8276	COMP+CAN	(H)	8,12 LTG (b)(A)	(.090)	U A
						8372	COMP+CAN	(H)	8 LTG (b)(A)	(.045)	U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Edge Tempering ; Hialeah, FL</b>						<b>FG Glass Industries Pvt Ltd. ; Mumbai, Maharashtra</b>					
7280	COMPOSITE	3/16	5.0 TTG		U A	8417	COMP+CAN	5/32	4.0 TTG		U A
6297	COMPOSITE	1/4	6.0 TTG		U A	8418	COMP+CAN	1/4	6.0 TTG		U A
6298	COMPOSITE	3/8	10.0 TTG		U A	8419	COMP+CAN	5/16	8.0 TTG		U A
6299	COMPOSITE	1/2	12.0 TTG		U A	8420	COMP+CAN	3/8	10.0 TTG		U A
<b>EFCO Corporation ; Monett, MO</b>						<b>Flat Glass Distributors ; Jacksonville, FL</b>					
4121	COMPOSITE	1/8	3.0 TTG		U A	8421	COMP+CAN	1/2	12.0 TTG		U A
1901	COMPOSITE	3/16	5.0 TTG		U A	8344	COMP+CAN	(H)	8,12-16+ LTG (ip)(A)	(.035)	U A
1902	COMPOSITE	1/4	6.0 TTG		U A	8345	COMP+CAN	(H)	12-16+ LTG (b)(A)	(.015)	U A
4154	COMPOSITE	5/16	8.0 TTG		U A	<b>Elivate Mexico Supply S. de R.L. de C.V. ; Tecate, Baja California</b>					
8233	COMPOSITE	3/8	10.0 TTG		U A	8435	COMP+CAN	3/16	5.0 TTG		U A
2143	COMPOSITE	3/16	5.0 TPG (s)		U A	8436	COMP+CAN	1/4	6.0 TTG (MC)		U A
<b>Engineered Glass Products, L.L.C. ; Chicago, IL</b>						<b>Flat Glass Group Co., Ltd. ; Jiaying, Zhejiang</b>					
4388	COMPOSITE	1/8	3.0 TTG (MC)	26x7 A 2		3822	COMPOSITE	1/8	3.0 TTG (MC)		U A
2589	COMPOSITE	5/32	4.0 TTG (MC)	26x7 A 2		3823	COMPOSITE	3/16	5.0 TTG (MC)		U A
8185	COMPOSITE	3/16	5.0 TTG (MC)	26x7 A 2		3824	COMPOSITE	1/4	6.0 TTG (MC)		U A
<b>Epta S.P.A. ; Limana, Belluno</b>						<b>Foshan Douglas Glass Technology Co., LTD. ; Foshan, Guangdong Province</b>					
7934	COMP+CAN	5/32	4.0 TTG		U A	3825	COMPOSITE	3/8	10.0 TTG		U A
<b>Erdem Dis Ticaret A.S. ; Pendik, Istanbul</b>						<b>Foshan Gaoming Yaqi Toughened Glass ; Foshan, Guangdong Province</b>					
7609	COMP+CAN	1/4	6.0 TTG		U A	3826	COMPOSITE	1/2	12.0 TTG		U A
7610	COMP+CAN	5/16	8.0 TTG		U A	3828	COMPOSITE	1/8	3.0 TPG (m)		U A
7611	COMP+CAN	3/8	10.0 TTG		U A	3830	COMPOSITE	3/16	5.0 TPG (m)		U A
7612	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030)	U A	3831	COMPOSITE	1/4	6.0 TPG (s)		U A
<b>Express Impact Manufacturing ; Medley, FL</b>						<b>Foshan Jingyi Tempered Glass Co., LTD. ; Foshan, Guangdong Province</b>					
8590	COMPOSITE	(H)	8, 12 LTG (b)(A)	(.090)	U A	4638	COMPOSITE	3/8	10.0 TPG (s)		U A
<b>Extrusiones de Aluminio, S.A. ; Santo Domingo, Heredia</b>						<b>Foshan Nanhai Nengyang Electrical Technology Co., Ltd. ; Foshan, Guangdong Province</b>					
8157	COMPOSITE	1/4	6.0 TTG (MC)		U A	5521	COMP+CAN	3/16	5.0 TTG (MC)		U A
8158	COMPOSITE	3/8	10.0 TTG		U A	5522	COMP+CAN	1/4	6.0 TTG (MC)		U A
8159	COMPOSITE	1/2	12.0 TTG		U A	5523	COMP+CAN	5/16	8.0 TTG (MC)		U A
8160	COMPOSITE	(H)	10-16+ LTG (ip)(A)	(.035)	U A	5524	COMP+CAN	3/8	10.0 TTG		U A
8161	COMPOSITE	(H)	10-16+ LTG (b)(A)	(.030)	U A	8380	COMP+CAN	*	12.0 TTG (4)		U A
<b>Fairis C.A. ; Ambato, Tungurahua</b>						<b>Foshan Nanhai Nengyang Electrical Technology Co., Ltd. ; Foshan, Guangdong Province</b>					
4425	COMPOSITE	5/32	4.0 TTG (MC)		U A	5526	COMP+CAN	(H)	10-16+ LTG (b)(HS)	(.030)	U A
4426	COMPOSITE	3/16	5.0 TTG		U A	<b>Foshan Douglas Glass Technology Co., LTD. ; Foshan, Guangdong Province</b>					
4427	COMPOSITE	1/4	6.0 TTG (MC)		U A	8695	COMP+CAN	1/4	6.0 TTG		U A
4428	COMPOSITE	5/16	8.0 TTG		U A	8696	COMP+CAN	5/16	8.0 TTG		U A
4429	COMPOSITE	3/8	10.0 TTG		U A	8697	COMP+CAN	3/8	10.0 TTG		U A
4722	COMPOSITE	(S)	6 LTG (b)(A)	(.030)	U A	<b>Foshan Gaoming Yaqi Toughened Glass ; Foshan, Guangdong Province</b>					
4430	COMPOSITE	(H)	10-12 LTG (b)(A)	(.030)	U A	8627	COMP+CAN	3/16	5.0 TTG		U A
						<b>Foshan Nanhai Nengyang Electrical Technology Co., Ltd. ; Foshan, Guangdong Province</b>					
						86119 COMP+CAN 1/4 6.0 TTG U A					
						6120 COMP+CAN 5/16 8.0 TTG U A					
						6121 COMP+CAN 3/8 10.0 TTG U A					
						6122 COMP+CAN 1/2 12.0 TTG U A					
						7717 COMP+CAN 5/16 8.0 TPG (s) U A					
						6123 COMP+CAN 1/4 6.0 TBG U A					
						6124 COMP+CAN 5/16 8.0 TBG U A					
						<b>Foshan Jingyi Tempered Glass Co., LTD. ; Foshan, Guangdong Province</b>					
						8357 COMP+CAN 1/4 6.0 TTG U A					
						8358 COMP+CAN 5/16 8.0 TTG U A					
						8359 COMP+CAN 3/8 10.0 TTG U A					
						8816 COMP+CAN 1/4 6.0 TBG U A					
						<b>Foshan Nanhai Nengyang Electrical Technology Co., Ltd. ; Foshan, Guangdong Province</b>					
						8260 COMPOSITE 3/16 5.0 TTG U A					
						8261 COMPOSITE 1/4 6.0 TTG U A					
						8262 COMPOSITE 5/16 8.0 TTG U A					
						8263 COMPOSITE 3/8 10.0 TTG U A					

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Foshan Nanhai Ruixin Glass Co., LTD. ; Foshan, Guangdong Province</b>					<b>G.E. Silliker &amp; Sons Ltd. ; Borden-Carleton, Prince Edward Island</b>				
8321	COMP+CAN	1/4	6.0 TTG	U A	8224	COMP+CAN	1/8	3.0 TTG (MC)	U A
8322	COMP+CAN	5/16	8.0 TTG	U A	8225	COMP+CAN	5/32	4.0 TTG (MC)	U A
8323	COMP+CAN	3/8	10.0 TTG	U A	8226	COMP+CAN	3/16	5.0 TTG (MC)	U A
<b>Fountain Glass Inc. ; Lenexa, KS</b>					<b>Galaxy Glass &amp; Stone ; Fairfield, NJ</b>				
7105	COMPOSITE	3/16	5.0 TTG	U A	8227	COMP+CAN	1/4	6.0 TTG (MC)	U A
7101	COMPOSITE	1/4	6.0 TTG	U A	8228	COMP+CAN	5/16	8.0 TTG (MC)	U A
7106	COMPOSITE	3/8	10.0 TTG	U A	8229	COMP+CAN	3/8	10.0 TTG	U A
7104	COMPOSITE	1/2	12.0 TTG	U A	8230	COMP+CAN	1/2	12.0 TTG	U A
7102	COMPOSITE	3/16	5.0 TPG (m)	U A	8231	COMP+CAN	5/8	16.0 TTG	U A
7100	COMPOSITE	1/4	6.0 TPG (s)	U A	8232	COMP+CAN	3/4	19.0 TTG	U A
7103	COMPOSITE	3/8	10.0 TPG (s)	U A	<b>Garibaldi Glass Ind. Inc. ; Burnaby, British Columbia</b>				
<b>Fujian Chengda Glass Co., Ltd ; Zhangzhou, Fujian</b>					<b>Gemtron Canada Corporation ; Midland, Ontario</b>				
7182	COMPOSITE	1/8	3.0 TTG (IN)	U A	5752	COMP+CAN	(H)	8-16+ LTG (ev)(A)	(.060) U A
7183	COMPOSITE	5/32	4.0 TTG (IN)	U A	3661	COMP+CAN	(H)	8-16+ LTG (lu)(A)	(.060) U A
7874	COMPOSITE	3/16	5.0 TTG	U A	<b>Gemtron Corporation ; Sweetwater, TN</b>				
7185	COMPOSITE	1/4	6.0 TTG	U A	5124	COMP+CAN	3/16	5.0 TTG (MC)	U A
7186	COMPOSITE	5/16	8.0 TTG	U A	4419	COMP+CAN	1/4	6.0 TTG (MC)	U A
7187	COMPOSITE	3/8	10.0 TTG	U A	5219	COMP+CAN	5/16	8.0 TTG (MC)	U A
7188	COMPOSITE	1/2	12.0 TTG	U A	4420	COMP+CAN	3/8	10.0 TTG (MC)	U A
<b>Fujian Tider Glass Co., Ltd. ; Xiamen, Fujian</b>					<b>Gemtron Corporation ; Vancouver, WA</b>				
8366	COMP+CAN	1/8	3.0 TTG	U A	4421	COMP+CAN	1/2	12.0 TTG	U A
7784	COMP+CAN	5/32	4.0 TTG	U A	5125	COMP+CAN	*	15.0 TTG (4)	U A
7785	COMP+CAN	3/16	5.0 TTG	U A	4422	COMP+CAN	3/4	19.0 TTG	U A
7786	COMP+CAN	1/4	6.0 TTG	U A	7380	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
7787	COMP+CAN	5/16	8.0 TTG	U A	6767	COMP+CAN	(S)	6 LTG (ip)(A)	(.035) U A
7788	COMP+CAN	3/8	10.0 TTG	U A	6766	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A
7789	COMP+CAN	1/2	12.0 TTG	U A	6768	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035) U A
8360	COMP+CAN	3/16	5.0 TPG (s)	U A	<b>General Glass ; Vancouver, WA</b>				
8361	COMP+CAN	1/4	6.0 TPG (m)	U A	3067	COMP+CAN	1/8	3.0 TTG (MC)	U A
<b>Fujian Xihe Sanitary Ware Technology Co., Ltd ; Quanzhou, Fujian</b>					<b>Gemtron Corporation ; Sweetwater, TN</b>				
8023	COMPOSITE	5/32	4.0 TTG	U A	3659	COMP+CAN	5/32	4.0 TTG	U A
8024	COMPOSITE	3/16	5.0 TTG	U A	3636	COMP+CAN	3/16	5.0 TTG	U A
8025	COMPOSITE	1/4	6.0 TTG	U A	3637	COMP+CAN	1/4	6.0 TTG	U A
8026	COMPOSITE	5/16	8.0 TTG	U A	6020	COMP+CAN	5/16	8.0 TTG	U A
8618	COMPOSITE	3/8	10.0 TTG	U A	6021	COMP+CAN	3/8	10.0 TTG	U A
8938	COMPOSITE	1/4	6.0 TPG (d)	U A	<b>Gemtron Corporation ; Sweetwater, TN</b>				
8617	COMPOSITE	1/4	6.0 TPG (s)	U A	1334	COMP+CAN	1/8	3.0 TTG (MC)	U A
8030	COMPOSITE	3/16	5.0 TBG	U A	1332	COMP+CAN	5/32	4.0 TTG (MC)	U A
8031	COMPOSITE	1/4	6.0 TBG	U A	1201	COMP+CAN	3/16	5.0 TTG (MC)	U A
8032	COMPOSITE	5/16	8.0 TBG	U A	1477	COMP+CAN	1/4	6.0 TTG	U A
<b>Futureguard Building Products ; Auburn, ME</b>					<b>Gemtron Corporation ; Sweetwater, TN</b>				
8663	COMP+CAN	5/32	4.0 TTG	U A	1422	COMP+CAN	1/8	3.0 TPG (s)	U A
<b>Fuzhou Autran Industrial Co., Ltd. ; Fuzhou, Fujian</b>					<b>Gemtron Corporation ; Sweetwater, TN</b>				
8698	COMP+CAN	1/4	6.0 TTG	U A	1424	COMP+CAN	5/32	4.0 TPG (s)	U A
8699	COMP+CAN	3/8	10.0 TTG	U A	<b>General Glass ; Vancouver, WA</b>				
8700	COMP+CAN	1/2	12.0 TTG	U A	4031	COMPOSITE	1/8	3.0 TTG (MC)	U A
					4032	COMPOSITE	5/32	4.0 TTG (MC)	U A
					4033	COMPOSITE	3/16	5.0 TTG (MC)	U A
					4034	COMPOSITE	1/4	6.0 TTG (MC)	U A
					8806	COMPOSITE	3/8	10.0 TTG	U A
					5751	COMPOSITE	1/2	12.0 TTG	U A
					5750	COMPOSITE	1/8	3.0 TPG (s)	U A
					7478	COMPOSITE	3/16	5.0 TPG (m)	U A

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>GGI Glass Distributors Corp. ; Secaucus, NJ</b>						<b>Glass Insulators Inc. ; Bloomer, WI</b>					
2928	COMPOSITE	5/32	4.0 TTG (IN)		U A	9007	COMP+CAN	1/8	3.0 TTG (MC)		U A
2226	COMPOSITE	3/16	5.0 TTG		U A	9008	COMP+CAN	5/32	4.0 TTG (MC)		U A
2227	COMPOSITE	1/4	6.0 TTG (MC)		U A	9009	COMP+CAN	3/16	5.0 TTG (MC)		U A
4248	COMPOSITE	5/16	8.0 TTG		U A	9010	COMP+CAN	1/4	6.0 TTG (MC)		U A
2282	COMPOSITE	3/8	10.0 TTG		U A	<b>Glass Laminate Solutions ; Hialeah, FL</b>					
2228	COMPOSITE	1/2	12.0 TTG		U A	8671	COMP+CAN	(H)	12-16+ LTG (ip)(A)	(.060)	U B
3857	COMPOSITE	5/8	16.0 TTG		U A	<b>Glassbel Baltic ; Klaipeda, Lithuania</b>					
3858	COMPOSITE	3/4	19.0 TTG		U A	6706	COMPOSITE	1/4	6.0 TTG (MC)		U A
4774	COMPOSITE	1	25.0 TTG (IN)		U A	6707	COMPOSITE	5/16	8.0 TTG (MC)		U A
3970	COMPOSITE	5/32	4.0 TPG (s)(IN)		U A	6708	COMPOSITE	3/8	10.0 TTG (MC)		U A
3971	COMPOSITE	3/16	5.0 TPG (m)		U A	6709	COMPOSITE	1/2	12.0 TTG (MC)		U A
3972	COMPOSITE	1/4	6.0 TPG (m)		U A	7524	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.035)	U A
3973	COMPOSITE	3/8	10.0 TPG (s)		U A	8049	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030)	U A
3974	COMPOSITE	1/2	12.0 TPG (s)(IN)		U A	<b>Glassecviracon ; Nazare Paulista, Sao Paulo</b>					
<b>Gin Jye Ming Glass Co., Ltd. ; Lugang Township, Changhua County</b>						9060	COMP+CAN	1/4	6.0 TTG (MC)		U A
7868	COMP+CAN	3/16	5.0 TTG		U A	9061	COMP+CAN	5/16	8.0 TTG (MC)		U A
7869	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	9062	COMP+CAN	3/8	10.0 TTG (MC)		U A
<b>GLAAM Co., Ltd. ; Pyeongtaek-si, Gyeonggi-do</b>						9064	COMP+CAN	(H)	8 LTG (ip)(A)	(.035)	U B
7928	COMP+CAN	(H)	10 LTG (lu)(A)	(.098)	U B	9063	COMP+CAN	(H)	8 LTG (b)(A)	(.030)	U A
<b>GLASPRO ; Santa Fe Springs, CA</b>						<b>Glassfab Canada ; Aldergrove, British Columbia</b>					
6047	COMP+CAN	1/4	6.0 TTG		U A	8636	COMP+CAN	1/8	3.0 TTG		U A
6048	COMP+CAN	1/2	12.0 TTG		U A	8637	COMP+CAN	5/32	4.0 TTG		U A
6050	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	8638	COMP+CAN	3/16	5.0 TTG		U A
<b>Glass and Mirror Craft ; Wixom, MI</b>						8622	COMP+CAN	1/4	6.0 TTG		U A
4198	COMP+CAN	1/8	3.0 TTG (MC)		U A	8623	COMP+CAN	3/8	10.0 TTG		U A
5116	COMP+CAN	5/32	4.0 TTG		U A	8639	COMP+CAN	1/2	12.0 TTG		U A
4199	COMP+CAN	3/16	5.0 TTG (MC)		U A	8640	COMP+CAN	1/8	3.0 TPG (s)		U A
4200	COMP+CAN	1/4	6.0 TTG (MC)		U A	8641	COMP+CAN	3/16	5.0 TPG (s)		U A
5598	COMP+CAN	3/8	10.0 TTG (MC)		U A	8642	COMP+CAN	1/4	6.0 TPG (s)		U A
4202	COMP+CAN	1/2	12.0 TTG		U A	<b>GlassFab Tempering Services Inc. Holly Drive ; Tracy, CA</b>					
4203	COMP+CAN	5/8	16.0 TTG		U A	6118	COMPOSITE	1/8	3.0 TTG (MC)		U A
4204	COMP+CAN	3/4	19.0 TTG		U A	5986	COMPOSITE	3/16	5.0 TTG (MC)		U A
4924	COMP+CAN	(H)	12-16+ LTG (ip)(A)	(.035)	U A	7024	COMPOSITE	1/4	6.0 TTG (MC)		U A
<b>Glass Design of Miami, Inc. ; Medley, FL</b>						5988	COMPOSITE	3/8	10.0 TTG (MC)		U A
7145	COMPOSITE	1/4	6.0 TTG		U A	5989	COMPOSITE	1/2	12.0 TTG		U A
7144	COMPOSITE	3/8	10.0 TTG		U A	5990	COMPOSITE	3/4	19.0 TTG		U A
7143	COMPOSITE	1/2	12.0 TTG		U A	<b>GlassFab Tempering Services, Inc. ; Tracy, CA</b>					
<b>Glass Enterprises, Inc. ; Bensalem, PA</b>						8879	COMPOSITE	(S)	6 LTG (b)(A)	(.030)	U A
4628	COMPOSITE	3/16	5.0 TTG (MC)		U A	8880	COMPOSITE	(H)	12 LTG (b)(A)	(.030)	U A
4629	COMPOSITE	1/4	6.0 TTG (MC)		U A	8881	COMPOSITE	(H)	12 LTG (ip)(A)	(.060)	U A
6597	COMPOSITE	3/8	10.0 TTG		U A	<b>GlassFab Tempering Services, Inc. Mariani Ct. ; Tracy, CA</b>					
6598	COMPOSITE	1/2	12.0 TTG		U A	7799	COMPOSITE	1/8	3.0 TTG		U A
8540	COMPOSITE	5/8	16.0 TTG		U A	4889	COMPOSITE	3/16	5.0 TTG		U A
8541	COMPOSITE	3/4	19.0 TTG		U A	4891	COMPOSITE	1/4	6.0 TTG		U A
<b>Glass Group &amp; Seal Inc ; Concord, Ontario</b>						7023	COMPOSITE	3/8	10.0 TTG		U A
9000	COMP+CAN	5/32	4.0 TTG		U A	4890	COMPOSITE	1/2	12.0 TTG		U A
9001	COMP+CAN	3/16	5.0 TTG		U A	4893	COMPOSITE	3/4	19.0 TTG		U A
9002	COMP+CAN	1/4	6.0 TTG		U A	7796	COMPOSITE	1/8	3.0 TPG (s)		U A
9003	COMP+CAN	3/16	5.0 TPG (s)		U A	5128	COMPOSITE	5/32	4.0 TPG (d)		U A
						7797	COMPOSITE	3/16	5.0 TPG (m)		U A
						7798	COMPOSITE	1/4	6.0 TPG (s)		U A
						4897	COMPOSITE	3/8	10.0 TPG (s)		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>Glasstech Industries B.S.C. ; Hidd, Manama</b>						<b>Glaz-Tech Industries, Inc. ; Phoenix, AZ</b>					
7298	COMPOSITE	5/32	4.0 TTG		U A	6582	COMPOSITE	1/8	3.0 TTG (MC)		U A
7299	COMPOSITE	1/4	6.0 TTG (MC)		U A	6583	COMPOSITE	3/16	5.0 TTG		U A
7300	COMPOSITE	5/16	8.0 TTG		U A	6584	COMPOSITE	1/4	6.0 TTG (MC)		U A
7306	COMPOSITE (H)	8,12-16+	LTG (b)(A)	(.015)	U A	6585	COMPOSITE	3/8	10.0 TTG		U A
<b>GlasTemp, Inc. ; Bellwood, IL</b>						<b>Glaz-Tech Industries, Inc. ; Santa Teresa, NM</b>					
8320	COMPOSITE	1/8	3.0 TTG (MC)		U A	6586	COMPOSITE	1/2	12.0 TTG		U A
8151	COMPOSITE	3/16	5.0 TTG (MC)		U A	8892	COMPOSITE	3/16	5.0 TPG (m)		U A
7695	COMPOSITE	1/4	6.0 TTG (MC)		U A	6588	COMPOSITE	3/8	10.0 TPG (s)		U A
7696	COMPOSITE	3/8	10.0 TTG		U A	<b>Glaz-Tech Industries, Inc. ; Tucson, AZ</b>					
7697	COMPOSITE	1/2	12.0 TTG		U A	6599	COMPOSITE	1/8	3.0 TTG (MC)		U A
<b>Glasswerks GWA- West ; South Gate CA</b>						<b>Glaz-Tech Industries, Inc. ; Tucson, AZ</b>					
5480	COMPOSITE	5/32	4.0 TTG		U A	6600	COMPOSITE	3/16	5.0 TTG (MC)		U A
5481	COMPOSITE	3/16	5.0 TTG (MC)		U A	6601	COMPOSITE	1/4	6.0 TTG (MC)		U A
5482	COMPOSITE	1/4	6.0 TTG (MC)		U A	6602	COMPOSITE	3/8	10.0 TTG		U A
<b>Glasswerks GWLA- East ; South Gate, CA</b>						<b>Glaz-Tech Industries, Inc. ; Tucson, AZ</b>					
4804	COMPOSITE	1/8	3.0 TTG (MC)		U A	6603	COMPOSITE	1/2	12.0 TTG		U A
5882	COMPOSITE	5/32	4.0 TTG		U A	6604	COMPOSITE	1/8	3.0 TPG (s)		U A
4805	COMPOSITE	3/16	5.0 TTG (MC)		U A	6605	COMPOSITE	3/16	5.0 TPG (m)		U A
4806	COMPOSITE	1/4	6.0 TTG (MC)		U A	6606	COMPOSITE	3/8	10.0 TPG (s)		U A
5883	COMPOSITE	3/8	10.0 TTG (MC)		U A	<b>Glaz-Tech Industries, Inc. ; Tucson, AZ</b>					
5884	COMPOSITE	1/2	12.0 TTG		U A	6574	COMPOSITE	1/8	3.0 TTG (MC)		U A
6921	COMPOSITE	5/8	16.0 TTG		U A	6575	COMPOSITE	3/16	5.0 TTG (MC)		U A
5885	COMPOSITE	3/4	19.0 TTG		U A	6576	COMPOSITE	1/4	6.0 TTG (MC)		U A
7074	COMPOSITE (S)	6	LTG (b)(A)	(.030)	U A	6577	COMPOSITE	3/8	10.0 TTG		U A
5886	COMPOSITE (H)	8-16+	LTG (b)(A)	(.030)	U A	6578	COMPOSITE	1/2	12.0 TTG		U A
6057	COMPOSITE (H)	8-16+	LTG (ip)(A)	(.035)	U A	6579	COMPOSITE	1/8	3.0 TPG (s)		U A
<b>Glasswerks GWT ; Temecula, CA</b>						<b>Glaz-Tech Industries, Inc. ; Tucson, AZ</b>					
6095	COMP+CAN	3/16	5.0 TTG (MC)		U A	6580	COMPOSITE	3/16	5.0 TPG (m)		U A
6096	COMP+CAN	1/4	6.0 TTG (MC)		U A	6581	COMPOSITE	3/8	10.0 TPG (s)		U A
6097	COMP+CAN	3/8	10.0 TTG		U A	<b>Glenny Glass Co. ; Milford, OH</b>					
6098	COMP+CAN	1/2	12.0 TTG		U A	3841	COMPOSITE	1/8	3.0 TTG		U A
<b>Glaz-Tech Industries, Inc. ; Albuquerque, NM</b>						<b>Glaz-Tech Industries, Inc. ; Tucson, AZ</b>					
8782	COMPOSITE	1/8	3.0 TTG (MC)		U A	3843	COMPOSITE	3/16	5.0 TTG		U A
8783	COMPOSITE	3/16	5.0 TTG (MC)		U A	3844	COMPOSITE	1/4	6.0 TTG		U A
8784	COMPOSITE	1/4	6.0 TTG (MC)		U A	3845	COMPOSITE	3/8	10.0 TTG		U A
8785	COMPOSITE	3/8	10.0 TTG		U A	3846	COMPOSITE	1/2	12.0 TTG		U A
8786	COMPOSITE	1/2	12.0 TTG		U A	<b>Global Security Glazing ; Selma, AL</b>					
8787	COMPOSITE	3/16	5.0 TPG (m)		U A	4764	COMP+CAN	1/8	3.0 TTG		U A
8788	COMPOSITE	3/8	10.0 TPG (s)		U A	4765	COMP+CAN	3/16	5.0 TTG		U A
<b>Glaz-Tech Industries, Inc. ; Boise, ID</b>						<b>Glaz-Tech Industries, Inc. ; Albuquerque, NM</b>					
6607	COMPOSITE	1/8	3.0 TTG		U A	4766	COMP+CAN	1/4	6.0 TTG (MC)		U A
6608	COMPOSITE	3/16	5.0 TTG		U A	4767	COMP+CAN	3/8	10.0 TTG		U A
6609	COMPOSITE	1/4	6.0 TTG (MC)		U A	4768	COMP+CAN	1/2	12.0 TTG		U A
6610	COMPOSITE	3/8	10.0 TTG		U A	4769	COMP+CAN (S)	6	LTG (b)(A)	(.030)	U A
6611	COMPOSITE	1/2	12.0 TTG		U A	4770	COMP+CAN (H)	12	LTG (b)(A)	(.060)	U A
6713	COMPOSITE	3/16	5.0 TPG (m)		U A	<b>GnT Glass Co., Ltd. ; Dongguan, Guangdong Province</b>					
6612	COMPOSITE	3/8	10.0 TPG (s)		U A	6540	COMP+CAN	1/4	6.0 TTG		U A
<b>Glaz-Tech Industries, Inc. ; Englewood, CO</b>						<b>Glaz-Tech Industries, Inc. ; Tucson, AZ</b>					
2185	COMPOSITE	1/8	3.0 TTG		U A	5788	COMP+CAN	5/16	8.0 TTG		U A
2186	COMPOSITE	3/16	5.0 TTG		U A	5789	COMP+CAN	3/8	10.0 TTG		U A
8505	COMP+CAN	1/4	6.0 TTG (MC)		U A	5790	COMP+CAN *	12.0	TTG (3)		U A
5143	COMPOSITE	3/8	10.0 TTG		U A	7131	COMP+CAN (H)	10	LTG (ip)(T)	(.060)	U A
2189	COMPOSITE	1/2	12.0 TTG		U A	5791	COMP+CAN (H)	10-16+	LTG (b)(T)	(.060)	U A
2193	COMPOSITE	3/16	5.0 TPG (m)		U A	<b>Goldray Industries Ltd. ; Calgary, Alberta</b>					
						2445	COMP+CAN	5/32	4.0 TTG		U A
						2446	COMP+CAN	3/16	5.0 TTG		U A
						2447	COMP+CAN	1/4	6.0 TTG		U A
						2448	COMP+CAN	3/8	10.0 TTG		U A
						2449	COMP+CAN	1/2	12.0 TTG		U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM) (THICKNESS CLASS)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM) (THICKNESS CLASS)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
<b>Griffin Glass &amp; Metal Werks, Inc. ; Elmhurst, IL</b>						<b>Guardian Fabrication, LLC ; Galax, VA</b>					
7146	COMP+CAN	3/16	5.0 TTG		U A	4604	COMP+CAN	1/8	3.0 TTG (MC)		U A
7147	COMP+CAN	1/4	6.0 TTG		U A	4605	COMP+CAN	5/32	4.0 TTG (MC)		U A
7201	COMP+CAN	5/16	8.0 TTG		U A	4606	COMP+CAN	3/16	5.0 TTG (MC)		U A
7202	COMP+CAN	3/8	10.0 TTG		U A	4607	COMP+CAN	1/4	6.0 TTG (MC)		U A
7148	COMP+CAN	1/2	12.0 TTG		U A	4609	COMP+CAN	3/8	10.0 TTG		U A
7284	COMP+CAN	3/4	19.0 TTG		U A	4610	COMP+CAN	1/2	12.0 TTG		U A
<b>Grupo Vidrios el Castillo ; Escobedo, Nuevo Leon</b>						<b>Guardian Fabrication, LLC ; Galax, VA (1005 Meadow Street)</b>					
5840	COMP+CAN	1/4	6.0 TTG (MC)		U A	8001	COMP+CAN	1/8	3.0 TTG (MC)		U A
5781	COMP+CAN	3/8	10.0 TTG		U A	8002	COMP+CAN	5/32	4.0 TTG (MC)		U A
6058	COMP+CAN	(S)	6 LTG (b)(A)	(.015)	U B	8003	COMP+CAN	3/16	5.0 TTG		U A
6083	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	8004	COMP+CAN	1/4	6.0 TTG (MC)		U A
8845	COMP+CAN	(H)	12 LTG (ip)(A)	(.035)	U A	8091	COMP+CAN	5/16	8.0 TTG		U A
8835	COMP+CAN	(H)	12 LTG (b)(A)	(.015)	U A	8005	COMP+CAN	3/8	10.0 TTG		U A
<b>Guangdong Haikong Special Glass Technology Co., Ltd. ; Huizhou, Guangdong Province</b>						<b>Guardian Glass, LLC ; Corsicana, TX</b>					
7363	COMPOSITE	1/4	6.0 TTG		U A	1248	COMP+CAN	1/8	3.0 TTG		U A
7364	COMPOSITE	5/16	8.0 TTG		U A	1249	COMP+CAN	5/32	4.0 TTG		U A
7365	COMPOSITE	3/8	10.0 TTG		U A	1250	COMP+CAN	3/16	5.0 TTG		U A
7366	COMPOSITE	1/2	12.0 TTG		U A	1251	COMP+CAN	1/4	6.0 TTG		U A
7367	COMPOSITE	*	15.0 TTG (4)		U A	2458	COMP+CAN	1/8	3.0 TPG (m)		U A
7368	COMPOSITE	3/4	19.0 TTG		U A	2459	COMP+CAN	5/32	4.0 TPG (m)		U A
7404	COMP+CAN	(H)	12,16+ LTG (ip)(A)	(.035)	U A	2460	COMP+CAN	3/16	5.0 TPG (m)		U A
7369	COMP+CAN	(H)	12,16+ LTG (b)(A)	(.060)	U A	5142	COMP+CAN	1/4	6.0 TPG (m)		U A
<b>Guangdong Honghua Glass Technology Co., LTD. ; Foshan, Guangdong Province</b>						<b>Guardian Glass, LLC ; DeWitt, IA</b>					
8587	COMP+CAN	1/4	6.0 TTG		U A	2020	COMP+CAN	1/8	3.0 TTG		U A
8588	COMP+CAN	5/16	8.0 TTG		U A	2021	COMP+CAN	5/32	4.0 TTG		U A
8589	COMP+CAN	3/8	10.0 TTG		U A	2022	COMP+CAN	3/16	5.0 TTG		U A
<b>Guangdong Rosery Bath Science and Technology Co.,Ltd. ; Jiangmen, Guangdong Province</b>						<b>Guardian Glass, LLC ; Geneva, NY</b>					
8241	COMP+CAN	3/16	5.0 TTG		U A	2259	COMP+CAN	1/8	3.0 TTG		U A
8242	COMP+CAN	1/4	6.0 TTG		U A	2260	COMP+CAN	5/32	4.0 TTG		U A
8243	COMP+CAN	5/16	8.0 TTG		U A	2261	COMP+CAN	3/16	5.0 TTG		U A
8244	COMP+CAN	3/8	10.0 TTG		U A	2262	COMP+CAN	1/4	6.0 TTG		U A
8729	COMP+CAN	1/4	6.0 TPG (s)		U A	3672	COMP+CAN	5/16	8.0 TTG		U A
8730	COMP+CAN	5/16	8.0 TPG (s)		U A	2519	COMP+CAN	3/8	10.0 TTG		U A
8629	COMP+CAN	1/4	6.0 TBG		U A	3673	COMP+CAN	1/2	12.0 TTG		U A
8630	COMP+CAN	5/16	8.0 TBG		U A						
<b>Guangdong South Star Glass Limited ; Foshan, Guangdong Province</b>											
7974	COMPOSITE	5/16	8.0 TTG		U A						
7975	COMPOSITE	3/8	10.0 TTG		U A						
7976	COMPOSITE	1/2	12.0 TTG		U A						
7977	COMPOSITE	*	15.0 TTG (4)		U A						
7978	COMPOSITE	3/4	19.0 TTG		U A						
7979	COMP+CAN	(H)	12, 16+ LTG (b)(T)	(.030)	U A						
<b>Guardian Fabrication - Hialeah Gardens ; Hialeah, FL</b>											
8397	COMPOSITE	3/16	5.0 TTG (MC)		U A						
8398	COMPOSITE	1/4	6.0 TTG (MC)		U A						
8399	COMPOSITE	3/8	10.0 TTG		U A						
8400	COMPOSITE	1/2	12.0 TTG		U A						
8402	COMPOSITE	3/8	10.0 TPG (s)		U A						
8949	COMPOSITE	(S)	6 LTG (b)(A)	(.030)	U A						
8558	COMPOSITE	(H)	8 LTG (b)(A)	(.090)	U A						
8560	COMPOSITE	(H)	10-16+ LTG (ip)(A)	(.060)	U A						
8559	COMPOSITE	(H)	10,12 LTG (IN)(ip)(A)	(.035)	U A						



**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Guardian Glass, LLC ; Kingsburg, CA</b>						<b>Hartung Glass Industries ; Tukwila, WA</b>					
968	COMP+CAN	1/8	3.0 TTG		U A	8868	COMPOSITE	3/16	5.0 TTG (MC)		U A
969	COMP+CAN	5/32	4.0 TTG		U A	8864	COMPOSITE	1/4	6.0 TTG (MC)		U A
970	COMP+CAN	3/16	5.0 TTG		U A	8865	COMPOSITE	5/16	8.0 TTG		U A
971	COMP+CAN	1/4	6.0 TTG		U A	8866	COMPOSITE	3/8	10.0 TTG		U A
1303	COMP+CAN	1/8	3.0 TPG (d)		U A	8867	COMPOSITE	1/2	12.0 TTG		U A
1301	COMP+CAN	5/32	4.0 TPG (m)		U A	<b>HI Craftmanship Glass ; Honolulu, HI</b>					
1304	COMP+CAN	3/16	5.0 TPG (m)		U A	8554	COMP+CAN	(S)	6 LTG (ev)(A)	(.015)	U B
1882	COMP+CAN	1/4	6.0 TPG (m)		U A	8555	COMP+CAN	(H)	8-12 LTG (ev)(A)	(.015)	U B
<b>Guardian Glass, LLC ; Richburg, SC</b>						<b>Hoskin &amp; Muir, Inc ; Louisville, KY</b>					
1630	COMP+CAN	1/8	3.0 TTG		U A	3872	COMPOSITE	3/16	5.0 TTG		U A
1631	COMP+CAN	5/32	4.0 TTG		U A	3873	COMPOSITE	1/4	6.0 TTG		U A
1632	COMP+CAN	3/16	5.0 TTG		U A	3874	COMPOSITE	3/8	10.0 TTG		U A
1633	COMP+CAN	1/4	6.0 TTG		U A	3875	COMPOSITE	1/2	12.0 TTG		U A
2382	COMP+CAN	5/16	8.0 TTG		U A	<b>Huahui Glass (China) Co., Ltd. ; Quanzou, Fujian</b>					
1634	COMP+CAN	3/8	10.0 TTG		U A	8944	COMP+CAN	1/8	3.0 TTG		U A
1683	COMP+CAN	1/8	3.0 TPG (m)		U A	8945	COMP+CAN	3/16	5.0 TTG		U A
1635	COMP+CAN	5/32	4.0 TPG (m)		U A	8946	COMP+CAN	1/4	6.0 TTG		U A
1865	COMP+CAN	3/16	5.0 TPG (m)		U A	8947	COMP+CAN	3/8	10.0 TTG		U A
3002	COMP+CAN	1/4	6.0 TPG (m)		U A	<b>Illumimex S.A. DE C.V. ; Monterrey, Noevo Leon</b>					
3003	COMP+CAN	3/8	10.0 TPG (m)		U A	8701	COMP+CAN	(H)	8-16+ LSP (b)(HS)	(.030X2)	U A
<b>Gulf Glass Industries, LLC ; Sharjah, United Arab Emirates</b>						<b>Imagic Glass Inc. ; Concord, Ontario</b>					
4796	COMPOSITE	1/4	6.0 TTG (MC)		U A	8608	COMP+CAN	1/4	6.0 TTG		U A
6326	COMPOSITE	5/16	8.0 TTG (MC)		U A	8609	COMP+CAN	3/8	10.0 TTG		U A
4797	COMPOSITE	3/8	10.0 TTG (MC)		U A	8610	COMP+CAN	1/2	12.0 TTG		U A
4798	COMPOSITE	*	12.0 TTG (7)(MC)		U A	8656	COMP+CAN	(H)	12 LTG (ip)(A)	(.060)	U A
4799	COMPOSITE	(H)	8 LTG (b)(A)	(.030)	U A	7355	COMP+CAN	(H)	12 LTG (b)(A)	(.060)	U A
<b>Hangzhou Blue-Sky Safety Glass Co., Ltd. ; Hangzhou, Zhejiang</b>						<b>Industrial Tempering Glass ; Brooklyn, NY</b>					
8801	COMP+CAN	3/16	5.0 TTG		U A	8894	COMPOSITE	1/4	6.0 TTG		U A
8802	COMP+CAN	1/4	6.0 TTG		U A	3418	COMPOSITE	3/8	10.0 TTG		U A
8803	COMP+CAN	5/16	8.0 TTG		U A	3419	COMPOSITE	1/2	12.0 TTG		U A
8804	COMP+CAN	3/8	10.0 TTG		U A	8294	COMPOSITE	5/8	16.0 TTG		U A
<b>Haojing Holdings Group Limited ; Nantong, Haimen</b>						<b>Inkan Ltd ; Brampton, Ontario</b>					
8702	COMP+CAN	1/8	3.0 TTG		U A	4240	COMPOSITE	3/4	19.0 TTG		U A
8703	COMP+CAN	1/4	6.0 TTG		U A	<b>Innovative Glass Products LLC ; Carrollton, TX</b>					
8704	COMP+CAN	5/16	8.0 TTG		U A	7062	COMPOSITE	1/8	3.0 TTG (MC)		U A
8705	COMP+CAN	3/8	10.0 TTG		U A	7063	COMPOSITE	5/32	4.0 TTG		U A
8706	COMP+CAN	1/2	12.0 TTG		U A	7064	COMPOSITE	3/16	5.0 TTG (MC)		U A
8707	COMP+CAN	*	15.0 TTG (4)		U A	7065	COMPOSITE	1/4	6.0 TTG		U A
8709	COMP+CAN	(H)	10-16+ LTG (ip)(T)	(.090)	U A	8862	COMPOSITE	3/8	10.0 TTG		U A
8708	COMP+CAN	(H)	10,12 LTG (b)(T)	(.060)	U A	<b>Guardian Glass, LLC ; Kingsburg, CA</b>					
<b>Hartung Glass Industries ; Phoenix, AZ</b>						<b>Hartung Glass Industries ; Tukwila, WA</b>					
6377	COMPOSITE	1/8	3.0 TTG (MC)		U A	8868	COMPOSITE	3/16	5.0 TTG (MC)		U A
6378	COMPOSITE	5/32	4.0 TTG (MC)(IN)		U A	8864	COMPOSITE	1/4	6.0 TTG (MC)		U A
6379	COMPOSITE	3/16	5.0 TTG (MC)		U A	8865	COMPOSITE	5/16	8.0 TTG		U A
6380	COMPOSITE	1/4	6.0 TTG (MC)		U A	8866	COMPOSITE	3/8	10.0 TTG		U A
7010	COMPOSITE	5/16	8.0 TTG (IN)		U A	8867	COMPOSITE	1/2	12.0 TTG		U A
7011	COMPOSITE	3/8	10.0 TTG		U A	<b>HI Craftmanship Glass ; Honolulu, HI</b>					
7012	COMPOSITE	1/2	12.0 TTG		U A	8554	COMP+CAN	(S)	6 LTG (ev)(A)	(.015)	U B
6381	COMPOSITE	1/8	3.0 TPG (s)		U A	8555	COMP+CAN	(H)	8-12 LTG (ev)(A)	(.015)	U B
6382	COMPOSITE	3/16	5.0 TPG (s)		U A	<b>Hoskin &amp; Muir, Inc ; Louisville, KY</b>					
7994	COMPOSITE	3/8	10.0 TPG (s)		U A	3872	COMPOSITE	3/16	5.0 TTG		U A
						3873	COMPOSITE	1/4	6.0 TTG		U A
						3874	COMPOSITE	3/8	10.0 TTG		U A
						3875	COMPOSITE	1/2	12.0 TTG		U A
						<b>Huahui Glass (China) Co., Ltd. ; Quanzou, Fujian</b>					
						8944	COMP+CAN	1/8	3.0 TTG		U A
						8945	COMP+CAN	3/16	5.0 TTG		U A
						8946	COMP+CAN	1/4	6.0 TTG		U A
						8947	COMP+CAN	3/8	10.0 TTG		U A
						<b>Illumimex S.A. DE C.V. ; Monterrey, Noevo Leon</b>					
						8701	COMP+CAN	(H)	8-16+ LSP (b)(HS)	(.030X2)	U A
						<b>Imagic Glass Inc. ; Concord, Ontario</b>					
						8608	COMP+CAN	1/4	6.0 TTG		U A
						8609	COMP+CAN	3/8	10.0 TTG		U A
						8610	COMP+CAN	1/2	12.0 TTG		U A
						8656	COMP+CAN	(H)	12 LTG (ip)(A)	(.060)	U A
						7355	COMP+CAN	(H)	12 LTG (b)(A)	(.060)	U A
						8807	COMP+CAN	(H)	12 LTG (ev)(A)	.040	U A
						<b>Industrial Tempering Glass ; Brooklyn, NY</b>					
						8894	COMPOSITE	1/4	6.0 TTG		U A
						3418	COMPOSITE	3/8	10.0 TTG		U A
						3419	COMPOSITE	1/2	12.0 TTG		U A
						8294	COMPOSITE	5/8	16.0 TTG		U A
						4240	COMPOSITE	3/4	19.0 TTG		U A
						<b>Inkan Ltd ; Brampton, Ontario</b>					
						5135	COMP+CAN	1/4	6.0 TTG		U A
						5136	COMP+CAN	5/16	8.0 TTG		U A
						5137	COMP+CAN	3/8	10.0 TTG		U A
						5138	COMP+CAN	1/2	12.0 TTG		U A
						5139	COMP+CAN	5/8	16.0 TTG		U A
						5140	COMP+CAN	3/4	19.0 TTG		U A
						<b>Innovative Glass Products LLC ; Carrollton, TX</b>					
						7062	COMPOSITE	1/8	3.0 TTG (MC)		U A
						7063	COMPOSITE	5/32	4.0 TTG		U A
						7064	COMPOSITE	3/16	5.0 TTG (MC)		U A
						7065	COMPOSITE	1/4	6.0 TTG		U A
						8862	COMPOSITE	3/8	10.0 TTG		U A

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Insulite Glass Co., Inc. ; Olathe, KS</b>						<b>ITI Glass Company ; Bel Aire, KS</b>					
4473	COMPOSITE	1/8	3.0 TTG (MC)		U A	8776	COMP+CAN	1/8	3.0 TTG (MC)		U A
4474	COMPOSITE	5/32	4.0 TTG		U A	8844	COMP+CAN	3/16	5.0 TTG		U A
3714	COMPOSITE	3/16	5.0 TTG (MC)		U A	8777	COMP+CAN	1/4	6.0 TTG (MC)		U A
3715	COMPOSITE	1/4	6.0 TTG (MC)		U A	8778	COMP+CAN	3/8	10.0 TTG		U A
3716	COMPOSITE	3/8	10.0 TTG		U A	8718	COMP+CAN	1/2	12.0 TTG		U A
3717	COMPOSITE	1/2	12.0 TTG		U A	8756	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
3718	COMPOSITE	(S)	6 LTG (b)(A)	(.030)	U A	8719	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
3720	COMPOSITE	(H)	8 LTG (b)(A)	(.060)	U A	8720	COMP+CAN	(H)	10 LTG (ip)(A)	(.035)	U A
5513	COMPOSITE	(H)	10-12 LTG (b)(A)	(.030)	U A	8721	COMP+CAN	(H)	12 LTG (ip)(A)	(.060)	U A
<b>Integral Seal Mfg. Inc. ; Concord, Ontario</b>						<b>J&amp;Y Glass Services ; Naples, FL</b>					
4682	COMP+CAN	5/32	4.0 TTG		U A	8077	COMP+CAN	1/4	6.0 TTG		U A
4683	COMP+CAN	3/16	5.0 TTG		U A	8078	COMP+CAN	3/8	10.0 TTG		U A
4684	COMP+CAN	1/4	6.0 TTG (MC)		U A	8079	COMP+CAN	1/2	12.0 TTG		U A
7245	COMP+CAN	(H)	10-12 LTG (ev)(A)	(.060)	U A	<b>J.C. Moag Corporation ; Georgetown, IN</b>					
<b>Integrity Glass Tempering, LLC. ; Venice , FL</b>						8939	COMP+CAN	3/16	5.0 TTG		U A
6666	COMPOSITE	3/16	5.0 TTG		U A	8940	COMP+CAN	1/4	6.0 TTG		U A
6635	COMPOSITE	1/4	6.0 TTG		U A	8941	COMP+CAN	3/8	10.0 TTG		U A
6636	COMPOSITE	3/8	10.0 TTG		U A	8942	COMP+CAN	1/2	12.0 TTG		U A
6637	COMPOSITE	1/2	12.0 TTG		U A	8238	COMPOSITE	(H)	10-16+ LTG (ev)(A)	(.060)	U A
7097	COMPOSITE	3/16	5.0 TPG (m)		U A	8313	COMPOSITE	(H)	10-16+ LTG (ip)(A)	(.060)	U A
<b>Inter Fonction Ltee ; Sherbrooke, Quebec</b>						<b>JAR Tempering Inc. ; Hialeah, FL</b>					
8470	COMP+CAN	5/32	4.0 TTG		U A	8512	COMPOSITE	3/16	5.0 TTG		U A
8471	COMP+CAN	1/4	6.0 TTG		U A	8513	COMPOSITE	1/4	6.0 TTG		U A
8489	COMP+CAN	5/16	8.0 TTG		U A	8514	COMPOSITE	3/8	10.0 TTG		U A
7235	COMP+CAN	3/8	10.0 TTG		U A	8515	COMPOSITE	1/2	12.0 TTG		U A
8089	COMP+CAN	1/2	12.0 TTG		U A	<b>Jiangmen Jianghai Jin Ying Tempered Glass Ltd. ; Jiangmen, Guangdong Province</b>					
<b>Intigral ; Quakertown, PA</b>						7574	COMP+CAN	3/16	5.0 TTG		U A
8200	COMP+CAN	1/8	3.0 TTG (MC)		U A	7575	COMP+CAN	1/4	6.0 TTG		U A
8201	COMP+CAN	5/32	4.0 TTG (MC)		U A	7576	COMP+CAN	5/16	8.0 TTG		U A
8202	COMP+CAN	3/16	5.0 TTG (MC)		U A	7577	COMP+CAN	3/8	10.0 TTG		U A
8199	COMP+CAN	1/8	3.0 TPG (m)		U A	7578	COMP+CAN	*	12.0 TTG (4)		U A
<b>Intigral ; Walton Hills, OH</b>						<b>Jiangmen Junfa Safety Glass Co., Ltd. ; Jiangmen, Guangdong Province</b>					
2050	COMP+CAN	1/8	3.0 TTG (MC)		U A	8797	COMP+CAN	3/8	10.0 TTG		U A
2051	COMP+CAN	5/32	4.0 TTG (MC)		U A	<b>Jiangmen SYP Engineering Glass Co, Ltd. ; Jiangmen, Guangdong Province</b>					
2052	COMP+CAN	3/16	5.0 TTG (MC)		U A	4303	COMP+CAN	5/32	4.0 TTG (IN)		U A
2055	COMP+CAN	1/4	6.0 TTG		U A	4304	COMP+CAN	3/16	5.0 TTG		U A
3631	COMP+CAN	1/8	3.0 TPG (m)		U A	4305	COMP+CAN	1/4	6.0 TTG		U A
4588	COMP+CAN	5/32	4.0 TPG (m)		U A	4306	COMP+CAN	5/16	8.0 TTG		U A
8048	COMP+CAN	3/16	5.0 TPG (m)		U A	4307	COMP+CAN	3/8	10.0 TTG		U A
<b>Isam M. Khairi Kabbani Glass Works LLC ; Jeddah, Mecca</b>						4308	COMP+CAN	1/2	12.0 TTG		U A
8800	COMPOSITE	1/4	6.0 TTG		U A	4309	COMP+CAN	*	15.0 TTG (4)		U A
8799	COMPOSITE	(H)	8 LTG (b)(A)	(.045)	U A	4310	COMP+CAN	3/4	19.0 TTG		U A
<b>Isoclima Specialty Glass, LLC ; Blairsville, PA</b>						5052	COMP+CAN	1/4	6.0 TBG (IN)		U A
3018	COMPOSITE	1/2	12.0 TTG		U A	5053	COMP+CAN	5/16	8.0 TBG (IN)		U A
7016	COMPOSITE	(H)	12 LTG (ip)(A)	(.070)	U A	5054	COMP+CAN	3/8	10.0 TBG (IN)		U A
6234	COMPOSITE	(H)	12 LTG (b)(A)	(.060)	U A	5055	COMP+CAN	1/2	12.0 TBG (IN)		U A
						4312	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
						4575	COMP+CAN	(H)	10-16+ LTG (ip)(A)	(.060)	U A
						<b>Jiangsu Chungse Glass Co., Ltd. ; Nantong, Jiangsu</b>					
						7527	COMPOSITE	1/8	3.0 TTG		U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Jiangyin Mingyang Glass Production ; Wuxi, Jiangsu</b>					<b>Kensington Glass Arts ; Sterling, VA</b>				
5777	COMPOSITE	*	3.0 TTG (3)	U A	8266	COMPOSITE	3/16	5.0 TTG	U A
5778	COMP+CAN	5/32	4.0 TTG	U A	8557	COMPOSITE	1/4	6.0 TTG	U A
7598	COMPOSITE	3/16	5.0 TTG	U A	8268	COMPOSITE	5/16	8.0 TTG	U A
5779	COMP+CAN	1/4	6.0 TTG	U A	8269	COMPOSITE	3/8	10.0 TTG	U A
5780	COMP+CAN	5/16	8.0 TTG	U A	8270	COMPOSITE	1/2	12.0 TTG	U A
6203	COMPOSITE	3/8	10.0 TTG	U A	8271	COMPOSITE	5/8	16.0 TTG	U A
6478	COMPOSITE	5/32	4.0 TPG (m)	U A	8272	COMPOSITE	3/4	19.0 TTG	U A
6479	COMPOSITE	3/16	5.0 TPG (m)	U A	8449	COMPOSITE	(H)	10,12 LTG (ev)(A)	(.060) U A
7870	COMP+CAN	1/4	6.0 TPG (s)	U A	8273	COMPOSITE	(H)	16+ LTG (ev)(A)	(.030) U A
7258	COMP+CAN	1/4	6.0 TBG	U A	<b>Kinestral Technologies ; Miaoli County,Taiwan</b>				
<b>Jinzhou Fortune Spring Glass Co., Ltd. ; Jinzhou, Liaoning</b>					8888	COMP+CAN	(H)	10 LSP (b)(HS) (.045)X2 EC	U A
7268	COMP+CAN	1/8	3.0 TTG	U A	8896	COMP+CAN	(H)	12 LSP (b)(HS) (.045)X3 EC	U A
<b>JM Glass ; Hayward, CA</b>					8895	COMP+CAN	(H)	12 LSP (b)(HS) (.060)X2 EC	U A
4928	COMPOSITE	3/16	5.0 TTG	U A	8953	COMP+CAN	(H)	16+ LSP (b)(HS) (.060)X3 EC	U A
4929	COMPOSITE	1/4	6.0 TTG	U A	<b>Kohler Company ; Union City, TN</b>				
4930	COMPOSITE	3/8	10.0 TTG	U A	1979	COMP+CAN	1/8	3.0 TTG	U A
4931	COMPOSITE	1/2	12.0 TTG	U A	1980	COMP+CAN	5/32	4.0 TTG	U A
<b>Jubilee Company ; Princeton, TX</b>					1981	COMP+CAN	3/16	5.0 TTG	U A
8427	COMPOSITE	3/16	5.0 TTG	U A	1982	COMP+CAN	1/4	6.0 TTG	U A
8428	COMPOSITE	1/4	6.0 TTG	U A	4668	COMP+CAN	5/16	8.0 TTG	U A
8429	COMPOSITE	3/8	10.0 TTG	U A	2434	COMP+CAN	3/8	10.0 TTG	U A
<b>JYC Glass Co. Ltd. ; Foshan, Guangdong Province</b>					4012	COMP+CAN	1/2	12.0 TTG	U A
3957	COMP+CAN	1/8	3.0 TTG	U A	1983	COMP+CAN	1/8	3.0 TPG (m)	U A
3958	COMP+CAN	5/32	4.0 TTG	U A	3532	COMP+CAN	5/32	4.0 TPG (m)	U A
3959	COMP+CAN	3/16	5.0 TTG	U A	1984	COMP+CAN	3/16	5.0 TPG (s)	U A
3960	COMP+CAN	1/4	6.0 TTG	U A	2918	COMPOSITE	1/4	6.0 TPG (m)(IN)	U A
3961	COMP+CAN	5/16	8.0 TTG	U A	<b>Krystalla Vasilioi LTD (VasGlass) ; Vasiliko Chalkida, Greece</b>				
3962	COMP+CAN	3/8	10.0 TTG	U A	8732	COMP+CAN	5/32	4.0 TTG (MC)	U A
3963	COMP+CAN	1/2	12.0 TTG	U A	8733	COMP+CAN	3/16	5.0 TTG (MC)	U A
4161	COMP+CAN	5/32	4.0 TPG (s)	U A	8734	COMP+CAN	1/4	6.0 TTG (MC)	U A
6621	COMP+CAN	3/16	5.0 TPG (s)	U A	8735	COMP+CAN	5/16	8.0 TTG (MC)	U A
6622	COMP+CAN	1/4	6.0 TPG (s)	U A	8736	COMP+CAN	3/8	10.0 TTG (MC)	U A
6619	COMP+CAN	3/16	5.0 TBP (s)	U A	8738	COMP+CAN	1/2	12.0 TTG (MC)	U A
6620	COMP+CAN	1/4	6.0 TBP (s)	U A	8740	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
3991	COMP+CAN	5/32	4.0 TBG	U A	8741	COMP+CAN	(H)	8 LTG (b)(A)	(.030) U A
3992	COMP+CAN	3/16	5.0 TBG	U A	8742	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035) U A
3993	COMP+CAN	1/4	6.0 TBG	U A	8739	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.015) U A
3994	COMP+CAN	5/16	8.0 TBG	U A	<b>La Tecnica Nel Vetro SpA ; Scafati, Salerno</b>				
<b>KAMRI Investments Limited ; Marabella, West Indies</b>					7174	COMP+CAN	3/16	5.0 TTG (IN)	U A
8932	COMPOSITE	1/4	6.0 TTG	U A	7168	COMP+CAN	1/4	6.0 TTG (IN)	U A
8933	COMPOSITE	3/8	10.0 TTG	U A	7167	COMP+CAN	5/16	8.0 TTG (IN)	U A
8934	COMPOSITE	1/2	12.0 TTG	U A	7166	COMP+CAN	3/8	10.0 TTG (IN)	U A
8935	COMPOSITE	(S)	6 LTG (ev)(A)	(.015) U A	7165	COMP+CAN	1/2	12.0 TTG (IN)	U A
8936	COMPOSITE	(H)	10 LTG (ev)(A)	(.015) U A	7169	COMP+CAN	(H)	8-12 LTG (b)(A)(IN)	(.015) U A
<b>Kensington Glass Arts ; Ijamsville, MD</b>					8317	COMP+CAN	(H)	16+ LTG (b)(A)(IN)	(.030) U A
5973	COMPOSITE	1/4	6.0 TTG	U A	8486	COMP+CAN	(H)	16+ LTG (IN)(ip)(A)	(.035) U A
5974	COMPOSITE	3/8	10.0 TTG	U A	<b>Laurier Architectural ; Laurier-Station, Quebec</b>				
5975	COMPOSITE	1/2	12.0 TTG	U A	8121	COMP+CAN	5/32	4.0 TTG (MC)	U A
5976	COMPOSITE	5/8	16.0 TTG	U A	8122	COMP+CAN	3/16	5.0 TTG (MC)	U A
5977	COMPOSITE	3/4	19.0 TTG	U A	8123	COMP+CAN	1/4	6.0 TTG (MC)	U A
					8124	COMP+CAN	3/8	10.0 TTG	U A
					8125	COMP+CAN	1/2	12.0 TTG	U A
					8126	COMP+CAN	(H)	8-12 LTG (b)(A)	(.030) U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Legacy Glass ; Irving, TX</b>						<b>M Industria S.A. DE C.V. ; Conkal, Yucatan</b>					
8053	COMPOSITE	3/16	5.0 TTG		U A	7708	COMP+CAN	1/8	3.0 TTG (MC)		U A
7600	COMPOSITE	1/4	6.0 TTG		U A	7709	COMP+CAN	5/32	4.0 TTG (MC)		U A
7601	COMPOSITE	3/8	10.0 TTG		U A	7682	COMP+CAN	3/16	5.0 TTG (MC)		U A
7602	COMPOSITE	1/2	12.0 TTG		U A	7683	COMP+CAN	1/4	6.0 TTG (MC)		U A
<b>Les Verres VMIK Inc. ; Gatineau, Quebec</b>						<b>M Industria S.A. DE C.V. ; Conkal, Yucatan</b>					
6893	COMP+CAN	5/32	4.0 TTG		U A	7684	COMP+CAN	5/16	8.0 TTG (MC)		U A
6894	COMP+CAN	3/16	5.0 TTG		U A	7685	COMP+CAN	3/8	10.0 TTG (MC)		U A
6895	COMP+CAN	1/4	6.0 TTG		U A	7686	COMP+CAN	1/2	12.0 TTG		U A
6896	COMP+CAN	3/8	10.0 TTG		U A	7687	COMP+CAN	3/4	19.0 TTG		U A
6897	COMP+CAN	1/2	12.0 TTG		U A	8950	COMP+CAN	3/16	5.0 TBG (MC)		U A
<b>Lien Yeu GLASSTECH (M) SDN BHD ; Muar, Johor</b>						<b>M Industria S.A. DE C.V. ; Conkal, Yucatan</b>					
7358	COMP+CAN	5/32	4.0 TTG (IN)		U A	8054	COMP+CAN	1/4	6.0 TBG (MC)		U A
7359	COMP+CAN	3/16	5.0 TTG (IN)		U A	8951	COMP+CAN	5/16	8.0 TBG (MC)		U A
7360	COMP+CAN	1/4	6.0 TTG (IN)		U A	8055	COMP+CAN	3/8	10.0 TBG (MC)		U A
7361	COMP+CAN	5/16	8.0 TTG (IN)		U A	8056	COMP+CAN	1/2	12.0 TBG		U A
7362	COMP+CAN	3/8	10.0 TTG (IN)		U A	8952	COMP+CAN	3/4	19.0 TBG		U A
8038	COMP+CAN	*	12.0 TTG (3)(IN)		U A	7688	COMP+CAN	(S)	6 LTG (ip)(A)	(.035)	U A
<b>Lippert Components ; Bristol, IN</b>						<b>M&amp;M Tempering Inc. ; Loganville, GA</b>					
8061	COMP+CAN	1/8	3.0 TTG (MC)		U A	4280	COMPOSITE	1/4	6.0 TTG		U A
8062	COMP+CAN	1/4	6.0 TTG		U A	4281	COMPOSITE	3/8	10.0 TTG		U A
<b>LongDing Glass Production Co., Ltd. ; Dongguan, Guangdong Province</b>						<b>M&amp;M Tempering Inc. ; Loganville, GA</b>					
8619	COMPOSITE		3.0 TTG		U A	4282	COMPOSITE	1/2	12.0 TTG		U A
8175	COMPOSITE	3/16	5.0 TTG		U A	<b>M3 Glass Technologies ; Irving, TX</b>					
8176	COMPOSITE	1/4	6.0 TTG		U A	5946	COMPOSITE	3/8	10.0 TTG		U A
8177	COMPOSITE	5/16	8.0 TTG		U A	5947	COMPOSITE	1/2	12.0 TTG		U A
8178	COMPOSITE	3/8	10.0 TTG		U A	<b>Majestic Glass Inc. ; Hialeah, FL</b>					
8333	COMPOSITE	3/8	10.0 TPG (m)		U A	8582	COMPOSITE	1/4	6.0 TTG		U A
<b>Louisville Plate Glass ; Louisville, KY</b>						<b>Majestic Glass Inc. ; Hialeah, FL</b>					
6070	COMPOSITE	1/8	3.0 TTG (MC)		U A	8583	COMPOSITE	3/8	10.0 TTG		U A
6072	COMPOSITE	3/16	5.0 TTG (MC)		U A	8584	COMPOSITE	1/2	12.0 TTG		U A
6073	COMPOSITE	1/4	6.0 TTG (MC)		U A	<b>Making Glass North America Inc. ; Laval, QC</b>					
6074	COMPOSITE	3/8	10.0 TTG		U A	9033	COMP+CAN	3/16	5.0 TTG		U A
6075	COMPOSITE	1/2	12.0 TTG		U A	9034	COMP+CAN	1/4	6.0 TTG		U A
<b>LTI Smart Glass, Inc. ; Pittsfield, MA</b>						<b>Making Glass North America Inc. ; Laval, QC</b>					
7079	COMP+CAN	1/8	3.0 TTG		U A	9035	COMP+CAN	5/16	8.0 TTG		U A
6922	COMP+CAN	3/16	5.0 TTG (MC)		U A	8926	COMP+CAN	3/8	10.0 TTG		U A
6923	COMP+CAN	1/4	6.0 TTG (MC)		U A	8927	COMP+CAN	1/2	12.0 TTG		U A
6924	COMP+CAN	5/16	8.0 TTG		U A	<b>Manko Window Systems ; Aurora, CO</b>					
6925	COMP+CAN	3/8	10.0 TTG		U A	6275	COMPOSITE	1/8	3.0 TTG (MC)		U A
6926	COMP+CAN	1/2	12.0 TTG		U A	6276	COMPOSITE	5/32	4.0 TTG		U A
7286	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030)	U A	6277	COMPOSITE	3/16	5.0 TTG (MC)		U A
<b>Luoyang LandGlass Technology Co., LTD ; Luoyang, Henan</b>						<b>Manko Window Systems ; Aurora, CO</b>					
7622	COMPOSITE	5/16	8.0 VIGT (MC)		U A	6278	COMPOSITE	1/4	6.0 TTG (MC)		U A
6476	COMPOSITE	3/8	10.0 VIGT (MC)		U A	6279	COMPOSITE	3/8	10.0 TTG		U A
						<b>Manko Window Systems- KS ; Manhattan, KS</b>					
						8928	COMPOSITE	1/8	3.0 TTG		U A
						6826	COMPOSITE	5/32	4.0 TTG		U A
						6827	COMPOSITE	3/16	5.0 TTG		U A
						6828	COMPOSITE	1/4	6.0 TTG		U A
						6829	COMPOSITE	3/8	10.0 TTG		U A
						6830	COMPOSITE	1/2	12.0 TTG		U A
						6833	COMPOSITE	1/8	3.0 TPG (s)		U A
						6834	COMPOSITE	3/16	5.0 TPG (m)		U A
						6835	COMPOSITE	1/4	6.0 TPG (m)		U A
						6836	COMPOSITE	3/8	10.0 TPG (m)		U A

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Manko Windows ; Des Moines, IA</b>						<b>Midwest Glass Fabricators Inc. ; Highland, MI</b>					
6286	COMPOSITE	1/8	3.0 TTG (MC)		U A	6027	COMP+CAN	1/8	3.0 TTG (MC)		U A
6287	COMPOSITE	5/32	4.0 TTG		U A	6028	COMP+CAN	5/32	4.0 TTG		U A
6288	COMPOSITE	3/16	5.0 TTG (MC)		U A	6029	COMP+CAN	3/16	5.0 TTG (MC)		U A
6289	COMPOSITE	1/4	6.0 TTG (MC)		U A	6030	COMP+CAN	1/4	6.0 TTG (MC)		U A
6290	COMPOSITE	3/8	10.0 TTG		U A	6031	COMP+CAN	3/8	10.0 TTG		U A
6291	COMPOSITE	1/2	12.0 TTG		U A	6032	COMP+CAN	1/2	12.0 TTG		U A
6292	COMPOSITE	1/8	3.0 TPG (m)		U A	6033	COMP+CAN	5/8	16.0 TTG		U A
6293	COMPOSITE	5/32	4.0 TPG (m)		U A	6034	COMP+CAN	3/4	19.0 TTG		U A
6294	COMPOSITE	3/16	5.0 TPG (d)		U A	7920	COMP+CAN	3/16	5.0 TPG (m)		U A
6295	COMPOSITE	1/4	6.0 TPG (m)		U A	7921	COMP+CAN	1/4	6.0 TPG (s)		U A
6296	COMPOSITE	3/8	10.0 TPG (m)		U A	6037	COMP+CAN	3/8	10.0 TPG (m)		U A
<b>Maryland Glass &amp; Mirror ; Baltimore, MD</b>						8527	COMP+CAN	(H)	10 LTG (b)(A)	(.030)	U A
4318	COMPOSITE	1/8	3.0 TTG (MC)		U A	<b>Milkana OOD ; Plevn Center, Plevn</b>					
4319	COMPOSITE	3/16	5.0 TTG (MC)		U A	8922	COMP+CAN	5/32	4.0 TTG		U A
4320	COMPOSITE	1/4	6.0 TTG (MC)		U A	8923	COMP+CAN	1/4	6.0 TTG (MC)		U A
8066	COMPOSITE	5/16	8.0 TTG		U A	8924	COMP+CAN	5/16	8.0 TTG (MC)		U A
4321	COMPOSITE	3/8	10.0 TTG		U A	8925	COMP+CAN	3/8	10.0 TTG		U A
4322	COMPOSITE	1/2	12.0 TTG		U A	<b>Mirror Works Inc. ; Ottawa, Ontario</b>					
7022	COMPOSITE	3/4	19.0 TTG		U A	8164	COMP+CAN	5/32	4.0 TTG		U A
<b>Maxividrio S.De R. L. de C.V. ; Cancun, Quintana Roo</b>						8165	COMP+CAN	3/16	5.0 TTG		U A
8774	COMP+CAN	1/4	6.0 TTG		U A	8166	COMP+CAN	1/4	6.0 TTG		U A
8775	COMP+CAN	3/8	10.0 TTG		U A	8167	COMP+CAN	3/8	10.0 TTG		U A
8686	COMP+CAN	(H)	12 LTG (ip)(A)	(.090)	U A	8168	COMP+CAN	1/2	12.0 TTG		U A
8293	COMP+CAN	(H)	12 LTG (b)(HS)	(.090)	U A	<b>Mr. Glass Tempering, LLC ; Brooklyn, NY</b>					
<b>McGrory Glass ; Paulsboro, NJ</b>						7170	COMP+CAN	3/16	5.0 TTG (MC)		U A
4925	COMPOSITE	3/16	5.0 TTG		U A	7171	COMP+CAN	1/4	6.0 TTG (MC)		U A
4813	COMPOSITE	1/4	6.0 TTG		U A	7172	COMP+CAN	3/8	10.0 TTG		U A
4814	COMPOSITE	3/8	10.0 TTG		U A	7173	COMP+CAN	1/2	12.0 TTG		U A
4815	COMPOSITE	1/2	12.0 TTG		U A	<b>Multiver ; Vanier, Quebec</b>					
4816	COMPOSITE	5/8	16.0 TTG		U A	2498	COMP+CAN	1/8	3.0 TTG (MC)		U A
4817	COMPOSITE	3/4	19.0 TTG		U A	2629	COMP+CAN	5/32	4.0 TTG (MC)		U A
4818	COMPOSITE	1/4	6.0 TPG (m)		U A	6890	COMP+CAN	3/16	5.0 TTG		U A
4819	COMPOSITE	3/8	10.0 TPG (s)		U A	2499	COMP+CAN	1/4	6.0 TTG (MC)		U A
4820	COMPOSITE	1/2	12.0 TPG (s)(IN)		U A	5226	COMP+CAN	5/16	8.0 TTG (MC)		U A
7287	COMPOSITE	(S)	6 LTG (b)(A)	(.030)	U A	5227	COMP+CAN	3/8	10.0 TTG (MC)		U A
5263	COMPOSITE	(H)	8-12 LTG (b)(A)	(.030)	U A	5228	COMP+CAN	1/2	12.0 TTG		U A
<b>Mercer Glass Fab LLC ; Trenton, NJ</b>						<b>Multiver Ltee ; Saint-Leonard, Quebec</b>					
7671	COMPOSITE	1/4	6.0 TTG		U A	8547	COMP+CAN	5/32	4.0 TTG		U A
4530	COMPOSITE	5/16	8.0 TTG		U A	6978	COMP+CAN	3/16	5.0 TTG		U A
4255	COMPOSITE	3/8	10.0 TTG		U A	8548	COMP+CAN	1/4	6.0 TTG		U A
4256	COMPOSITE	1/2	12.0 TTG		U A	6980	COMP+CAN	3/8	10.0 TTG		U A
4257	COMPOSITE	1/4	6.0 TPG (m)		U A	7546	COMP+CAN	(S)	6 LTG (b)(A)	(.015)	U A
4258	COMPOSITE	3/8	10.0 TPG (m)		U A	7548	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035)	U A
<b>Mid-American Glass ; Davenport, IA</b>						7547	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.015)	U A
7227	COMPOSITE	1/8	3.0 TTG (MC)		U A	<b>Nanjing Feitian Varo Glass Product Co., Ltd. ; Nanjing, Jiangsu</b>					
7228	COMPOSITE	5/32	4.0 TTG		U A	9054	COMP+CAN	3/8	10.0 TTG		U A
7229	COMPOSITE	3/16	5.0 TTG (MC)		U A	9055	COMP+CAN	1/2	12.0 LTG (b)(A)	(.030)	U A
7230	COMPOSITE	1/4	6.0 TTG (MC)		U A	<b>Nashville Tempered Glass Corp. ; Nashville, TN</b>					
7231	COMPOSITE	3/8	10.0 TTG		U A	1416	COMP+CAN	1/8	3.0 TTG (MC)		U A
7232	COMPOSITE	1/2	12.0 TTG		U A	2497	COMP+CAN	5/32	4.0 TTG		U A
						1467	COMP+CAN	3/16	5.0 TTG		U A
						1417	COMP+CAN	1/4	6.0 TTG		U A
						5729	COMP+CAN	5/16	8.0 TTG		U A
						2494	COMP+CAN	3/8	10.0 TTG		U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Nashville Tempered Glass LLC ; Hendersonville, TN</b>						<b>Nissink Business Glass BV ; IJsselmuider, Overijssel</b>					
2691	COMP+CAN	5/32	4.0 TTG		U A	8415	COMP+CAN	5/16	8.0 TTG		U A
2692	COMP+CAN	3/16	5.0 TTG		U A	8416	COMP+CAN	3/8	10.0 TTG		U A
2693	COMP+CAN	1/4	6.0 TTG		U A	8414	COMP+CAN	1/4	6.0 TBG		U A
7980	COMP+CAN	5/16	8.0 TTG		U A	<b>NOLA Showers, L.L.C. ; New Orleans, LA</b>					
2694	COMP+CAN	3/8	10.0 TTG		U A	8487	COMPOSITE	3/8	10.0 TTG		U A
4148	COMP+CAN	1/2	12.0 TTG		U A	8488	COMPOSITE	1/2	12.0 TTG		U A
5229	COMP+CAN	(S)	6 LTG (b)(A)	(.015)	U B	<b>Norfinch Glass &amp; Mirror Mfg. Ltd. ; Etobicoke, Ontario</b>					
8413	COMP+CAN	(S)	6 LTG (ip)(A)	(.035)	U A	8252	COMP+CAN	1/4	6.0 TTG		U A
5230	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.015)	U A	8253	COMP+CAN	3/8	10.0 TTG		U A
5231	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035)	U A	8254	COMP+CAN	1/2	12.0 TTG		U A
<b>Naverra ; Norwich, CT</b>						<b>Northeast Building Products ; Philadelphia, PA</b>					
8753	COMP+CAN	1/4	6.0 TTG		U A	7281	COMPOSITE	1/8	3.0 TTG (MC)		U A
8754	COMP+CAN	5/16	8.0 TTG		U A	7282	COMPOSITE	5/32	4.0 TTG (IN)		U A
8755	COMP+CAN	3/8	10.0 TTG		U A	7283	COMPOSITE	3/16	5.0 TTG (MC)		U A
<b>New Angle Beveling ; Clearfield, PA</b>						8084	COMPOSITE	1/8	3.0 TPG (s)		U A
5772	COMPOSITE	1/8	3.0 TTG (MC)		U A	<b>Northwestern Glass Fab ; Fridley, MN</b>					
5774	COMPOSITE	3/16	5.0 TTG (MC)		U A	6733	COMP+CAN	1/8	3.0 TTG (MC)		U A
5773	COMPOSITE	1/4	6.0 TTG (MC)		U A	8840	COMP+CAN	5/32	4.0 TTG (MC)		U A
5775	COMPOSITE	3/8	10.0 TTG		U A	6734	COMP+CAN	3/16	5.0 TTG (MC)		U A
5776	COMPOSITE	1/2	12.0 TTG		U A	6735	COMP+CAN	1/4	6.0 TTG (MC)		U A
<b>New Angle Beveling ; Hyde, PA</b>						6736	COMP+CAN	3/8	10.0 TTG		U A
4593	COMPOSITE	1/8	3.0 TTG		U A	6737	COMP+CAN	1/2	12.0 TTG		U A
4594	COMPOSITE	3/16	5.0 TTG		U A	<b>Northwestern Industries - Arizona, Inc. ; Yuma, AZ</b>					
4595	COMPOSITE	1/4	6.0 TTG		U A	6566	COMPOSITE	3/16	5.0 TTG (MC)		U A
4591	COMPOSITE	3/8	10.0 TTG		U A	6567	COMPOSITE	1/4	6.0 TTG (MC)		U A
4592	COMPOSITE	1/2	12.0 TTG		U A	6568	COMPOSITE	5/16	8.0 TTG (MC)		U A
<b>New Century Glass &amp; Aluminum LLC ; Woodside, NY</b>						6569	COMPOSITE	3/8	10.0 TTG		U A
5455	COMPOSITE	3/16	5.0 TTG		U A	8750	COMPOSITE (S)	6 LTG (b)(A)	(.030)	U A	
5456	COMPOSITE	1/4	6.0 TTG		U A	8751	COMPOSITE (H)	8-16+ LTG (b)(A)	(.030)	U A	
5457	COMPOSITE	3/8	10.0 TTG		U A	8752	COMPOSITE (H)	8-16+ LTG (ip)(A)	(.035)	U A	
5458	COMPOSITE	1/2	12.0 TTG		U A	<b>Novatech Canada Inc. ; Montreal, Quebec</b>					
<b>Ningbo Runner Industrial Corporation ; Ningbo, Zhejiang</b>						6217	COMP+CAN	1/8	3.0 TTG (MC)		U A
8591	COMP+CAN	5/32	4.0 TTG		U A	6218	COMP+CAN	5/32	4.0 TTG (MC)		U A
8592	COMP+CAN	3/16	5.0 TTG		U A	6219	COMP+CAN	3/16	5.0 TTG (MC)		U A
8593	COMP+CAN	1/4	6.0 TTG		U A	6220	COMP+CAN	1/4	6.0 TTG (MC)		U A
8594	COMP+CAN	5/16	8.0 TTG		U A	<b>Novatech Canada Inc. ; St-Agapit, Quebec</b>					
8595	COMP+CAN	3/8	10.0 TTG		U A	7006	COMP+CAN	1/8	3.0 TTG (MC)		U A
8596	COMP+CAN	1/2	12.0 TTG		U A	7007	COMP+CAN	5/32	4.0 TTG (MC)		U A
8597	COMP+CAN	7/32	6.0 TPG (s)(IN)		U A	7008	COMP+CAN	3/16	5.0 TTG (MC)		U A
8598	COMP+CAN	3/8	10.0 TPG (IN)(s)		U A	8478	COMP+CAN	1/4	6.0 TTG		U A
<b>Ningbo Xinxin Glass Technology Co., Ltd ; Ningbo, Zhejiang</b>						<b>Novavetro S.r.l. ; San Severino Marche, Italy</b>					
6271	COMPOSITE	5/32	4.0 TTG (IN)		U A	7768	COMP+CAN	3/16	5.0 TTG		U A
6272	COMPOSITE	1/4	6.0 TTG		U A	7769	COMP+CAN	1/4	6.0 TTG (MC)		U A
8828	COMPOSITE	5/16	8.0 TTG		U A	7770	COMP+CAN	5/16	8.0 TTG (MC)		U A
7873	COMPOSITE	3/8	10.0 TTG (MC)		U A	7771	COMP+CAN	3/8	10.0 TTG (MC)		U A
6273	COMPOSITE	5/32	4.0 TPG (m)(IN)		U A	7772	COMP+CAN	1/2	12.0 TTG (MC)		U A
6274	COMPOSITE	1/4	6.0 TPG (s)		U A	7773	COMP+CAN	*	15.0 TTG (4)		U A
6845	COMPOSITE	3/8	10.0 TPG (s)		U A	7774	COMP+CAN (S)	6 LTG (b)(A)	(.015)	U A	
<b>Niskayuna Glass ; Schenectady, NY</b>						7775	COMP+CAN (H)	8-12 LTG (b)(A)	(.015)	U A	
7471	COMP+CAN	1/8	3.0 TTG		U A	8365	COMP+CAN (H)	12, 16+ LTG (ip)(A)	(.035)	U A	
7472	COMP+CAN	3/16	5.0 TTG (MC)		U A	7776	COMP+CAN (H)	16+ LTG (b)(A)	(.030)	U A	
7473	COMP+CAN	1/4	6.0 TTG		U A						

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>NY Tempering LLC ; Maspeth, NY</b>					<b>Oldcastle BuildingEnvelope® ; Covington, GA</b>				
4900	COMPOSITE	3/16	5.0 TTG (MC)	U A	3331	COMP+CAN	3/16	5.0 TTG (MC)	U A
4901	COMPOSITE	1/4	6.0 TTG	U A	3332	COMP+CAN	1/4	6.0 TTG (MC)	U A
4902	COMPOSITE	3/8	10.0 TTG	U A	8407	COMP+CAN	5/16	8.0 TTG	U A
4903	COMPOSITE	1/2	12.0 TTG	U A	3333	COMP+CAN	3/8	10.0 TTG (MC)	U A
<b>Oldcastle BuildingEnvelope® ; Albertville, MN</b>					<b>Oldcastle BuildingEnvelope® ; Denver, CO</b>				
3104	COMP+CAN	1/8	3.0 TTG (MC)	U A	3334	COMP+CAN	1/2	12.0 TTG	U A
3105	COMP+CAN	5/32	4.0 TTG (MC)	U A	4390	COMP+CAN	5/8	16.0 TTG (MC)	U A
3106	COMP+CAN	3/16	5.0 TTG (MC)	U A	3335	COMP+CAN	3/4	19.0 TTG	U A
3107	COMP+CAN	1/4	6.0 TTG (MC)	U A	6697	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
4882	COMP+CAN	5/16	8.0 TTG (MC)	U A	4392	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030) U A
3108	COMP+CAN	3/8	10.0 TTG (MC)	U A	4393	COMP+CAN	(H)	10-12 LTG (ip)(A)	(.035) U A
3109	COMP+CAN	1/2	12.0 TTG	U A	<b>Oldcastle BuildingEnvelope® ; Denver, CO</b>				
3110	COMP+CAN	5/8	16.0 TTG	U A	3310	COMP+CAN	1/8	3.0 TTG (MC)	U A
3111	COMP+CAN	3/4	19.0 TTG	U A	3311	COMP+CAN	5/32	4.0 TTG	U A
3127	COMP+CAN	3/8	10.0 TPG (m)	U A	3312	COMP+CAN	3/16	5.0 TTG	U A
8081	COMPOSITE	(S)	6 LTG (b)(A)	(.030) U A	3313	COMP+CAN	1/4	6.0 TTG (MC)	U A
8082	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030) U A	3314	COMP+CAN	3/8	10.0 TTG	U A
8083	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.060) U A	3315	COMP+CAN	1/2	12.0 TTG	U A
<b>Oldcastle BuildingEnvelope® ; Battle Ground, WA</b>					<b>Oldcastle BuildingEnvelope® ; Fremont, CA</b>				
3219	COMP+CAN	1/8	3.0 TTG (MC)	U A	3317	COMP+CAN	1/8	3.0 TPG (s)	U A
3220	COMP+CAN	5/32	4.0 TTG (MC)	U A	3318	COMP+CAN	5/32	4.0 TPG (d)	U A
3221	COMP+CAN	3/16	5.0 TTG (MC)	U A	3319	COMP+CAN	3/16	5.0 TPG (m)	U A
3222	COMP+CAN	1/4	6.0 TTG (MC)	U A	3321	COMP+CAN	3/8	10.0 TPG (m)	U A
3223	COMP+CAN	5/16	8.0 TTG	U A	4533	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
3224	COMP+CAN	3/8	10.0 TTG	U A	4454	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A
3225	COMP+CAN	1/2	12.0 TTG	U A	6056	COMP+CAN	(H)	12-16+ LTG (ip)(A)	(.060) U A
3226	COMP+CAN	1/8	3.0 TPG (s)	U A	<b>Oldcastle BuildingEnvelope® ; Fremont, CA</b>				
7424	COMP+CAN	5/32	4.0 TPG (s)(IN)	U A	3191	COMP+CAN	1/8	3.0 TTG (MC)	U A
3228	COMP+CAN	3/16	5.0 TPG (m)	U A	3192	COMP+CAN	5/32	4.0 TTG	U A
3229	COMP+CAN	1/4	6.0 TPG (m)	U A	3193	COMP+CAN	3/16	5.0 TTG (MC)	U A
3230	COMP+CAN	3/8	10.0 TPG (m)	U A	3194	COMP+CAN	1/4	6.0 TTG (MC)	U A
<b>Oldcastle BuildingEnvelope® ; Calgary, Alberta</b>					<b>Oldcastle BuildingEnvelope® ; Grand Prairie, TX</b>				
3263	COMP+CAN	1/8	3.0 TTG (MC)	U A	5387	COMP+CAN	5/16	8.0 TTG	U A
3264	COMP+CAN	5/32	4.0 TTG (MC)	U A	3195	COMP+CAN	3/8	10.0 TTG	U A
3265	COMP+CAN	3/16	5.0 TTG (MC)	U A	3196	COMP+CAN	1/2	12.0 TTG	U A
3266	COMP+CAN	1/4	6.0 TTG (MC)	U A	4458	COMP+CAN	5/8	16.0 TTG	U A
3267	COMP+CAN	5/16	8.0 TTG	U A	3197	COMP+CAN	3/4	19.0 TTG	U A
3268	COMP+CAN	3/8	10.0 TTG	U A	3199	COMP+CAN	1/8	3.0 TPG (s)	U A
3269	COMP+CAN	1/2	12.0 TTG	U A	3200	COMP+CAN	5/32	4.0 TPG (d)	U A
3270	COMP+CAN	5/8	16.0 TTG	U A	3201	COMP+CAN	3/16	5.0 TPG (m)	U A
3271	COMP+CAN	3/4	19.0 TTG	U A	3907	COMP+CAN	1/4	6.0 TPG (m)	U A
3273	COMP+CAN	5/32	4.0 TPG (d)	U A	3203	COMP+CAN	3/8	10.0 TPG (m)	U A
3274	COMP+CAN	3/16	5.0 TPG (d)	U A	7879	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
3275	COMP+CAN	1/4	6.0 TPG (m)	U A	4460	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A
3262	COMP+CAN	3/8	10.0 TPG (d)	U A	4461	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.060) U A
<b>Oldcastle BuildingEnvelope® ; Concord, Ontario</b>					<b>Oldcastle BuildingEnvelope® ; Grand Prairie, TX</b>				
3440	COMP+CAN	5/32	4.0 TTG	U A	3250	COMP+CAN	1/8	3.0 TTG	U A
3441	COMP+CAN	3/16	5.0 TTG	U A	3252	COMP+CAN	3/16	5.0 TTG	U A
3442	COMP+CAN	1/4	6.0 TTG (MC)	U A	3253	COMP+CAN	1/4	6.0 TTG	U A
3443	COMP+CAN	5/16	8.0 TTG	U A	3255	COMP+CAN	3/8	10.0 TTG	U A
3444	COMP+CAN	3/8	10.0 TTG	U A	3256	COMP+CAN	1/2	12.0 TTG	U A
3445	COMP+CAN	1/2	12.0 TTG	U A	7039	COMP+CAN	5/8	16.0 TTG	U A
3446	COMP+CAN	5/8	16.0 TTG	U A	3426	COMP+CAN	5/32	4.0 TPG (m)(IN)	U A
4424	COMP+CAN	3/16	5.0 TPG (s)	U A	3427	COMP+CAN	3/16	5.0 TPG (s)	U A
					3428	COMP+CAN	3/8	10.0 TPG (s)	U A
					7099	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
					8860	COMP+CAN	(H)	8 LTG (ip)(A)	(.060) U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS		SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)		
<b>Oldcastle BuildingEnvelope® ; Hauppauge, NY</b>						<b>Oldcastle BuildingEnvelope® ; Los Angeles, CA</b>				
1546	COMP+CAN	1/8	3.0 TTG (MC)	U A		1608	COMP+CAN	1/8	3.0 TTG (MC)	U A
1547	COMP+CAN	3/16	5.0 TTG (MC)	U A		1609	COMP+CAN	5/32	4.0 TTG (MC)	U A
1548	COMP+CAN	1/4	6.0 TTG (MC)	U A		630	COMP+CAN	3/16	5.0 TTG (MC)	U A
4180	COMP+CAN	5/16	8.0 TTG	U A		514	COMP+CAN	1/4	6.0 TTG (MC)	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
3392	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A		516	COMP+CAN	1/2	12.0 TTG	U A
4618	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A		4387	COMP+CAN	5/8	16.0 TTG	U A
5355	COMP+CAN	(H)	10-16+ LTG (ip)(A)	(.060) U A		2074	COMP+CAN	3/4	19.0 TTG	U A
<b>Oldcastle BuildingEnvelope® ; Houston, TX</b>						935	COMP+CAN	3/16	5.0 TPG (m)	U A
7909	COMPOSITE	5/32	4.0 TTG	U A		3793	COMP+CAN	3/8	10.0 TPG (m)	U A
7910	COMPOSITE	3/16	5.0 TTG	U A		7406	COMP+CAN	(S)	6 LTG (ip)(A)(IN)	(.035) U A
6728	COMPOSITE	1/4	6.0 TTG (MC)	U A		4346	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
7911	COMPOSITE	5/16	8.0 TTG	U A		7407	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035) U A
6729	COMPOSITE	3/8	10.0 TTG	U A		4563	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A
6730	COMPOSITE	1/2	12.0 TTG	U A		<b>Oldcastle BuildingEnvelope® ; Miami, FL</b>				
7912	COMPOSITE	5/8	16.0 TTG	U A		7845	COMP+CAN	1/8	3.0 TTG	U A
7913	COMPOSITE	3/4	19.0 TTG	U A		7847	COMP+CAN	5/32	4.0 TTG	U A
7914	COMPOSITE	3/16	5.0 TPG (s)	U A		3497	COMP+CAN	3/16	5.0 TTG	U A
7915	COMPOSITE	3/8	10.0 TPG (s)	U A		3498	COMP+CAN	1/4	6.0 TTG	U A
7908	COMPOSITE	(S)	6 LTG (b)(A)	(.030) U A		7848	COMP+CAN	5/16	8.0 TTG	U A
6732	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030) U A		3499	COMP+CAN	3/8	10.0 TTG	U A
6731	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.035) U A		3500	COMP+CAN	1/2	12.0 TTG	U A
<b>Oldcastle BuildingEnvelope® ; Indianapolis, IN</b>						7849	COMP+CAN	5/8	16.0 TTG	U A
2210	COMP+CAN	1/8	3.0 TTG (MC)	U A		7850	COMP+CAN	3/4	19.0 TTG	U A
2216	COMP+CAN	5/32	4.0 TTG	U A		7846	COMP+CAN	1/8	3.0 TPG (m)	U A
2211	COMP+CAN	3/16	5.0 TTG (MC)	U A		3502	COMP+CAN	3/16	5.0 TPG (m)	U A
2212	COMP+CAN	1/4	6.0 TTG (MC)	U A		4477	COMP+CAN	1/4	6.0 TPG (d)	U A
2213	COMP+CAN	3/8	10.0 TTG	U A		3503	COMP+CAN	3/8	10.0 TPG (s)	U A
2214	COMP+CAN	1/2	12.0 TTG	U A		7872	COMP+CAN	(S)	6 LTG (ip)(A)	(.035) U A
7250	COMP+CAN	5/8	16.0 TTG	U A		7877	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
2215	COMP+CAN	3/16	5.0 TPG (m)	U A		4399	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035) U A
5442	COMP+CAN	1/4	6.0 TPG (m)	U A		4398	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A
3259	COMP+CAN	3/8	10.0 TPG (m)	U A		<b>Oldcastle BuildingEnvelope® ; Moorestown, NJ</b>				
<b>Oldcastle BuildingEnvelope® ; Langley, British Columbia</b>						3180	COMP+CAN	1/8	3.0 TTG (MC)	U A
3286	COMP+CAN	1/8	3.0 TTG (MC)	U A		3181	COMP+CAN	5/32	4.0 TTG (IN)	U A
3287	COMP+CAN	5/32	4.0 TTG (MC)	U A		3182	COMP+CAN	3/16	5.0 TTG (MC)	U A
3288	COMP+CAN	3/16	5.0 TTG (MC)	U A		3183	COMP+CAN	1/4	6.0 TTG (MC)	U A
3289	COMP+CAN	1/4	6.0 TTG (MC)	U A		3184	COMP+CAN	3/8	10.0 TTG	U A
3290	COMP+CAN	5/16	8.0 TTG	U A		3185	COMP+CAN	1/2	12.0 TTG	U A
3291	COMP+CAN	3/8	10.0 TTG	U A		4054	COMP+CAN	5/8	16.0 TTG	U A
3292	COMP+CAN	1/2	12.0 TTG	U A		3186	COMP+CAN	1/8	3.0 TPG (s)	U A
3293	COMP+CAN	5/8	16.0 TTG	U A		3187	COMP+CAN	5/32	4.0 TPG (IN)(m)	U A
3294	COMP+CAN	3/4	19.0 TTG	U A		3188	COMP+CAN	3/16	5.0 TPG (m)	U A
3295	COMP+CAN	1/8	3.0 TPG (m)	U A		3189	COMP+CAN	1/4	6.0 TPG (m)	U A
3296	COMP+CAN	5/32	4.0 TPG (d)	U A		3190	COMP+CAN	3/8	10.0 TPG (m)	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)	(.030) U A						
4476	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A						



**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Oldcastle BuildingEnvelope® ; Perrysburg, OH</b>						<b>Oldcastle BuildingEnvelope® ; Tampa, FL</b>					
3233	COMP+CAN	1/8	3.0 TTG (MC)		U A	3116	COMP+CAN	1/8	3.0 TTG (IN)		U A
3234	COMP+CAN	5/32	4.0 TTG (IN)		U A	3118	COMP+CAN	3/16	5.0 TTG (MC)		U A
3235	COMP+CAN	3/16	5.0 TTG (MC)		U A	3119	COMP+CAN	1/4	6.0 TTG (MC)		U A
3236	COMP+CAN	1/4	6.0 TTG (MC)		U A	3120	COMP+CAN	3/8	10.0 TTG		U A
4443	COMP+CAN	5/16	8.0 TTG		U A	3121	COMP+CAN	1/2	12.0 TTG		U A
3237	COMP+CAN	3/8	10.0 TTG		U A	3122	COMP+CAN	1/8	3.0 TPG (s)(IN)		U A
3238	COMP+CAN	1/2	12.0 TTG		U A	3124	COMP+CAN	3/16	5.0 TPG (m)		U A
3239	COMP+CAN	5/8	16.0 TTG		U A	3125	COMP+CAN	1/4	6.0 TPG (m)		U A
3240	COMP+CAN	3/4	19.0 TTG		U A	4340	COMP+CAN	3/8	10.0 TPG (s)		U A
3243	COMP+CAN	3/16	5.0 TPG (s)		U A	4448	COMP+CAN	(S)	6 LTG (b)(A)(IN)	(.030)	U A
3244	COMP+CAN	1/4	6.0 TPG (m)		U A	4449	COMP+CAN	(H)	8-16+ LTG (b)(A)(IN)	(.030)	U A
4700	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	5051	COMP+CAN	(H)	12 LTG (ip)(A)(IN)	(.035)	U A
4446	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	<b>Oldcastle BuildingEnvelope® ; Warrenton, MO</b>					
4444	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.060)	U A	3144	COMP+CAN	1/8	3.0 TTG (MC)		U A
<b>Oldcastle BuildingEnvelope® ; Phoenix, AZ</b>						3145	COMP+CAN	5/32	4.0 TTG		U A
3128	COMP+CAN	1/8	3.0 TTG (MC)		U A	3146	COMP+CAN	3/16	5.0 TTG (MC)		U A
3130	COMP+CAN	3/16	5.0 TTG (MC)		U A	3147	COMP+CAN	1/4	6.0 TTG (MC)		U A
3131	COMP+CAN	1/4	6.0 TTG (MC)		U A	3796	COMP+CAN	5/16	8.0 TTG		U A
3132	COMP+CAN	3/8	10.0 TTG		U A	3148	COMP+CAN	3/8	10.0 TTG		U A
3133	COMP+CAN	1/2	12.0 TTG		U A	3149	COMP+CAN	1/2	12.0 TTG		U A
7262	COMP+CAN	5/8	16.0 TTG		U A	5904	COMP+CAN	5/8	16.0 TTG		U A
6394	COMP+CAN	3/4	19.0 TTG		U A	3152	COMP+CAN	5/32	4.0 TPG (s)		U A
7521	COMP+CAN	1/8	3.0 TPG (s)		U A	3153	COMP+CAN	3/16	5.0 TPG (m)		U A
3136	COMP+CAN	3/16	5.0 TPG (m)		U A	3154	COMP+CAN	1/4	6.0 TPG (m)		U A
3999	COMP+CAN	1/4	6.0 TPG (m)		U A	3155	COMP+CAN	3/8	10.0 TPG (d)		U A
3729	COMP+CAN	3/8	10.0 TPG (m)		U A	<b>Oldcastle BuildingEnvelope® ; Wright City, MO</b>					
<b>Oldcastle BuildingEnvelope® ; Rock Hill, SC</b>						3137	COMP+CAN	1/8	3.0 TTG (MC)		U A
3276	COMP+CAN	1/8	3.0 TTG (IN)		U A	3138	COMP+CAN	5/32	4.0 TTG		U A
3462	COMP+CAN	5/32	4.0 TTG (MC)		U A	3139	COMP+CAN	3/16	5.0 TTG (MC)		U A
3277	COMP+CAN	3/16	5.0 TTG (MC)		U A	3140	COMP+CAN	1/4	6.0 TTG (MC)		U A
3278	COMP+CAN	1/4	6.0 TTG (MC)		U A	3141	COMP+CAN	5/16	8.0 TTG (MC)		U A
4787	COMP+CAN	5/16	8.0 TTG (IN)		U A	3142	COMP+CAN	3/8	10.0 TTG (MC)		U A
3279	COMP+CAN	3/8	10.0 TTG		U A	3143	COMP+CAN	1/2	12.0 TTG		U A
3280	COMP+CAN	1/2	12.0 TTG		U A	4528	COMP+CAN	(S)	6 LTG (ip)(A)	(.035)	U A
3281	COMP+CAN	1/8	3.0 TPG (s)(IN)		U A	4526	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
4396	COMP+CAN	5/32	4.0 TPG (d)(IN)		U A	4527	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
3285	COMP+CAN	3/8	10.0 TPG (d)		U A	4529	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035)	U A
<b>Oldcastle BuildingEnvelope® ; Schofield, WI</b>						<b>Oldcastle BuildingEnvelope® Canada Inc. ; Pointe-aux-Trembles, Quebec</b>					
3167	COMP+CAN	1/8	3.0 TTG (MC)		U A	4247	COMP+CAN	5/32	4.0 TTG		U A
3168	COMP+CAN	5/32	4.0 TTG (MC)		U A	1997	COMP+CAN	3/16	5.0 TTG		U A
3169	COMP+CAN	3/16	5.0 TTG (MC)		U A	2543	COMP+CAN	1/4	6.0 TTG (MC)		U A
3170	COMP+CAN	1/4	6.0 TTG (MC)		U A	2884	COMP+CAN	5/16	8.0 TTG		U A
3171	COMP+CAN	5/16	8.0 TTG (MC)		U A	2544	COMP+CAN	3/8	10.0 TTG		U A
3172	COMP+CAN	3/8	10.0 TTG		U A	2062	COMP+CAN	1/2	12.0 TTG		U A
3173	COMP+CAN	1/2	12.0 TTG		U A	7397	COMP+CAN	5/8	16.0 TTG		U A
3178	COMP+CAN	3/16	5.0 TPG (d)		U A	7398	COMP+CAN	3/4	19.0 TTG		U A
3176	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	5024	COMP+CAN	(S)	6 LTG (b)(A)(IN)	(.015)(C1)	U B
6773	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.060)	U A	5025	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
4558	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	4435	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
						4433	COMP+CAN	(H)	10-16+ LTG (ip)(A)	(.070)	U A
						<b>Onyx Solar Energy, S.L. ; Avila, Spain</b>					
						7071	COMPOSITE	(H)	12 LTG (ev)(HS)	(.080)	U A
						8184	COMPOSITE	(H)	16+ LTG (ev)(HS)	(.075)	U A
						7070	COMPOSITE	(H)	16 LSP (ip)(HS)	(.035x2)	U A

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Opulux Glass ; East Hanover, NJ</b>					<b>PFG Glass ; Langley, British Columbia</b>				
8450	COMP+CAN	3/16	5.0 TTG (MC)	U A	3538	COMP+CAN	1/8	3.0 TTG (MC)	U A
8451	COMP+CAN	1/4	6.0 TTG (MC)	U A	3539	COMP+CAN	5/32	4.0 TTG (MC)	U A
8452	COMP+CAN	3/8	10.0 TTG	U A	3540	COMP+CAN	3/16	5.0 TTG (MC)	U A
8453	COMP+CAN	1/2	12.0 TTG	U A	3542	COMP+CAN	5/16	8.0 TTG	U A
<b>P&amp;C Tempered Glass, LLC. ; Medley, FL</b>					<b>3543 COMP+CAN 3/8 10.0 TTG U A</b>				
8342	COMPOSITE	1/4	6.0 TTG	U A	3544	COMP+CAN	1/2	12.0 TTG	U A
8343	COMPOSITE	3/8	10.0 TTG	U A	3547	COMP+CAN	1/8	3.0 TPG (s)	U A
8542	COMPOSITE	1/2	12.0 TTG	U A	3548	COMP+CAN	5/32	4.0 TPG (d)	U A
<b>PA Glass Inc. ; Philadelphia, PA</b>					<b>3549 COMP+CAN 3/16 5.0 TPG (s) U A</b>				
7692	COMPOSITE	5/32	4.0 TTG	U A	3711	COMP+CAN	1/4	6.0 TPG (s)	U A
7693	COMPOSITE	3/16	5.0 TTG (MC)	U A	<b>PGT Industries ; North Venice, FL</b>				
7660	COMPOSITE	1/4	6.0 TTG (MC)	U A	2389	COMPOSITE	1/8	3.0 TTG	U A
7661	COMPOSITE	3/8	10.0 TTG	U A	2390	COMPOSITE	3/16	5.0 TTG (MC)	U A
7662	COMPOSITE	1/2	12.0 TTG	U A	2391	COMPOSITE	1/4	6.0 TTG (MC)	U A
7864	COMPOSITE	*	15.0 TTG (4)(IN)	U A	3880	COMPOSITE	1/8	3.0 TPG (s)	U A
7865	COMPOSITE	3/4	19.0 TTG (IN)	U A	3881	COMPOSITE	3/16	5.0 TPG (s)	U A
7821	COMPOSITE	*	5.0 TBG (4)(IN)	U A	8346	COMPOSITE (S)	6 LTG (b)(A)	(.045)	U A
7822	COMPOSITE	1/4	6.0 TBG (IN)	U A	7451	COMPOSITE (S)	6 LTG (ip)(A)	(.035)	U A
7823	COMPOSITE	3/8	10.0 TBG (IN)	U A	7452	COMPOSITE (H)	8-12 LTG (ip)(A)	(.035)	U A
7824	COMPOSITE	1/2	12.0 TBG (IN)	U A	2426	COMPOSITE (H)	8-12 LTG (b)(A)	(.060)	U A
<b>PAN- DUR Glass GmbH ; Ilmenau, Thuringen</b>					<b>Philly Glass Industry Inc. ; Philadelphia, PA</b>				
6738	COMPOSITE	5/32	4.0 TTG	U A	7652	COMP+CAN	3/16	5.0 TTG (MC)	U A
6739	COMPOSITE	1/4	6.0 TTG	U A	7653	COMP+CAN	1/4	6.0 TTG (MC)	U A
<b>Panasonic Housing Solutions Co., Ltd. ; Oyabe, Toyama</b>					<b>7654 COMP+CAN 3/8 10.0 TTG U A</b>				
8731	COMPOSITE	1/4	6.0 VIGT	U A	7655	COMP+CAN	1/2	12.0 TTG	U A
8561	COMPOSITE	5/16	8.0 VIGT	U A	7656	COMP+CAN	5/8	16.0 TTG (IN)	U A
<b>Panoramic Doors LLC ; Fort Worth, TX</b>					<b>7657 COMP+CAN 3/4 19.0 TTG (IN) U A</b>				
8198	COMP+CAN	5/32	4.0 TTG	U A	<b>Pingdingshan Youbo Glass Technology Co., Ltd. ; Pingdingshan, Henan</b>				
8504	COMP+CAN	3/16	5.0 TTG (MC)	U A	8100	COMPOSITE	3/16	5.0 TTG	U A
<b>Paragon Tempered Glass ; Antwerp, OH</b>					<b>8101 COMPOSITE (H) 10 LTG (ip)(T) (.035) U A</b>				
2684	COMPOSITE	1/8	3.0 TTG	U A	<b>Portland Glass Manufacturing ; Clackamas, OR</b>				
2685	COMPOSITE	5/32	4.0 TTG	U A	6372	COMPOSITE	1/4	6.0 TTG (IN)	U A
2686	COMPOSITE	3/16	5.0 TTG	U A	6373	COMPOSITE	3/8	10.0 TTG (IN)	U A
2687	COMPOSITE	1/4	6.0 TTG (MC)	U A	6510	COMPOSITE	1/2	12.0 TTG (IN)	U A
5242	COMPOSITE	3/16	5.0 TBG	U A	<b>Precision Glass Bending Corporation ; Greenwood, AR</b>				
8863	COMPOSITE	1/4	6.0 TBG (MC)	U A	7149	COMP+CAN	1/4	6.0 TBG (MC)	U A
<b>Patio Enclosures ; Macedonia, OH</b>					<b>7150 COMP+CAN 3/8 10.0 TBG U A</b>				
7843	COMP+CAN	1/8	3.0 TTG (MC)	U A	7151	COMP+CAN	1/2	12.0 TBG	U A
8670	COMP+CAN	5/32	4.0 TTG (MC)	U A	7152	COMP+CAN	5/8	16.0 TBG	U A
<b>Patriot Armored Systems, LLC ; Lee, MA</b>					<b>7153 COMP+CAN 3/4 19.0 TBG U A</b>				
6688	COMPOSITE	1/8	3.0 TTG	U A	7422	COMP+CAN (S)	6 LTG (ip)(A)	(.035)	U A
6689	COMPOSITE	3/16	5.0 TTG	U A	7154	COMP+CAN (S)	6 LTG (b)(A)	(.030)	U A
6690	COMPOSITE	1/4	6.0 TTG (MC)	U A	7423	COMP+CAN (H)	8-16+ LTG (ip)(A)	(.035)	U A
6691	COMPOSITE	3/8	10.0 TTG	U A	7155	COMP+CAN (H)	8-16+ LTG (b)(A)	(.030)	U A
<b>Perficom S.A. DE C.V. ; San Juan Del Rio, Queretaro</b>					<b>Precision Glass Industries ; Houston, TX</b>				
4512	COMPOSITE	1/8	3.0 TTG	U A	6886	COMPOSITE	3/16	5.0 TTG	U A
					6887	COMPOSITE	1/4	6.0 TTG (MC)	U A
					6888	COMPOSITE	3/8	10.0 TTG	U A
					6889	COMPOSITE	1/2	12.0 TTG	U A
					8992	COMPOSITE	3/16	5.0 TPG (m)	U A
					7605	COMPOSITE	3/8	10.0 TPG (s)	U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Prelco Inc. ; Riviere-du-loup, Quebec</b>						<b>PRESS GLASS SP ZOO ; Tychy, Poland</b>					
2034	COMP+CAN	1/8	3.0 TTG (MC)		U A	5852	COMP+CAN	5/32	4.0 TTG (MC)		U A
2035	COMP+CAN	5/32	4.0 TTG (MC)		U A	6404	COMP+CAN	3/16	5.0 TTG (MC)		U A
2713	COMP+CAN	3/16	5.0 TTG (MC)		U A	5853	COMP+CAN	1/4	6.0 TTG (MC)		U A
7800	COMP+CAN	1/4	6.0 TTG (MC)		U A	5854	COMP+CAN	5/16	8.0 TTG (MC)		U A
2751	COMP+CAN	5/16	8.0 TTG (MC)		U A	5855	COMP+CAN	3/8	10.0 TTG (MC)		U A
2381	COMP+CAN	3/8	10.0 TTG (MC)		U A	5856	COMP+CAN	1/2	12.0 TTG (MC)		U A
2048	COMP+CAN	1/2	12.0 TTG		U A	5857	COMP+CAN	*	15.0 TTG (4)		U A
5609	COMP+CAN	5/8	16.0 TTG		U A	7509	COMP+CAN	3/16	5.0 TBG		U A
4904	COMP+CAN	3/4	19.0 TTG		U A	7510	COMP+CAN	1/4	6.0 TBG		U A
4905	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	7511	COMP+CAN	5/16	8.0 TBG		U A
4906	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	7512	COMP+CAN	3/8	10.0 TBG		U A
8274	COMP+CAN	(H)	10 LTG (ip)(A)	(.060)	U A	7513	COMP+CAN	*	12.0 TBG (2)		U A
<b>Prelco Inc. ; Saint-Jacques, New Brunswick</b>						<b>Press Glass, Inc. ; Stoneville, NC</b>					
4911	COMP+CAN	1/8	3.0 TTG (MC)		U A	8621	COMP+CAN	5/32	4.0 TTG		U A
4912	COMP+CAN	5/32	4.0 TTG (MC)		U A	2730	COMP+CAN	3/16	5.0 TTG (MC)		U A
4913	COMP+CAN	3/16	5.0 TTG (MC)		U A	2732	COMP+CAN	1/4	6.0 TTG (MC)		U A
4914	COMP+CAN	1/4	6.0 TTG (MC)		U A	5259	COMP+CAN	5/16	8.0 TTG (MC)		U A
4915	COMP+CAN	5/16	8.0 TTG		U A	2729	COMP+CAN	3/8	10.0 TTG		U A
4916	COMP+CAN	3/8	10.0 TTG		U A	2733	COMP+CAN	1/2	12.0 TTG		U A
4917	COMP+CAN	1/2	12.0 TTG		U A	2731	COMP+CAN	5/8	16.0 TTG		U A
5610	COMP+CAN	5/8	16.0 TTG		U A	2734	COMP+CAN	3/4	19.0 TTG		U A
5611	COMP+CAN	3/4	19.0 TTG		U A	4413	COMP+CAN	(S)	6 LTG (ip)(A)	(.035)	U A
<b>Prelco MTL Inc. ; Montreal, Quebec</b>						<b>PRL Glass Systems ; City of Industry, CA</b>					
7481	COMP+CAN	5/32	4.0 TTG (MC)		U A	6508	COMPOSITE	1/4	6.0 TTG (MC)		U A
7482	COMP+CAN	3/16	5.0 TTG (MC)		U A	7971	COMP+CAN	(H)	12 LTG (ev)(A)(IN)	(.030)	U A
7483	COMP+CAN	1/4	6.0 TTG (MC)		U A	<b>Procesadora De Jalisco S.A. DE C.V. - Queretaro ; San Juan del Rio, Queretaro</b>					
7484	COMP+CAN	5/16	8.0 TTG (MC)		U A	6716	COMPOSITE	1/8	3.0 TTG (MC)		U A
7485	COMP+CAN	3/8	10.0 TTG		U A	6717	COMPOSITE	1/4	6.0 TTG (MC)		U A
<b>Premier Glass Products ; Atlanta, GA</b>						<b>Procesadora de Jalisco, S.A. DE C.V. ; Zapopan, Jalisco</b>					
8562	COMP+CAN	3/16	5.0 TTG		U A	6718	COMPOSITE	1/4	6.0 TTG		U A
8377	COMP+CAN	1/4	6.0 TTG		U A	6719	COMPOSITE	3/8	10.0 TTG		U A
8378	COMP+CAN	3/8	10.0 TTG		U A	6720	COMPOSITE	*	12.0 TTG (4)		U A
8379	COMP+CAN	1/2	12.0 TTG		U A	6722	COMPOSITE	(H)	12 LTG (b)(T)	(.060)	U A
8837	COMP+CAN	1/4	6.0 TBG		U A	6721	COMPOSITE	(H)	12 LTG (ip)(T)	(.060)	U A
8838	COMP+CAN	3/8	10.0 TBG		U A	<b>Productora y Distribuidora de Espejos S.A. de C.V. ; Pesqueria, Nuevo Leon</b>					
8841	COMP+CAN	(H)	10-12 LTG (ip)(A)	(.060)	U A	6517	COMPOSITE	1/4	6.0 TTG		U A
<b>Press Glass Inc. ; Ridgeway, VA</b>						<b>Productora y Distribuidora de Espejos S.A. de C.V. ; Pesqueria, Nuevo Leon</b>					
7810	COMP+CAN	3/16	5.0 TTG (MC)		U A	6518	COMPOSITE	3/8	10.0 TTG		U A
7811	COMP+CAN	1/4	6.0 TTG (MC)		U A	<b>PRESS GLASS SP ZOO ; Radomsko, Poland</b>					
7812	COMP+CAN	5/16	8.0 TTG (MC)		U A	5845	COMP+CAN	5/32	4.0 TTG (MC)		U A
7813	COMP+CAN	3/8	10.0 TTG (MC)		U A	6963	COMP+CAN	3/16	5.0 TTG (MC)		U A
7814	COMP+CAN	1/2	12.0 TTG		U A	5846	COMP+CAN	1/4	6.0 TTG (MC)		U A
7815	COMP+CAN	5/8	16.0 TTG		U A	5847	COMP+CAN	5/16	8.0 TTG (MC)		U A
7816	COMP+CAN	3/4	19.0 TTG		U A	5848	COMP+CAN	3/8	10.0 TTG (MC)		U A
7819	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	5849	COMP+CAN	1/2	12.0 TTG (MC)		U A
7820	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035)	U A	5850	COMP+CAN	*	15.0 TTG (4)		U A
<b>PRESS GLASS SP ZOO ; Radomsko, Poland</b>						<b>PRESS GLASS SP ZOO ; Radomsko, Poland</b>					
5845	COMP+CAN	5/32	4.0 TTG (MC)		U A	5851	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
6963	COMP+CAN	3/16	5.0 TTG (MC)		U A	7479	COMP+CAN	(H)	12,16+ LTG (ip)(A)	(.035)	U A
5846	COMP+CAN	1/4	6.0 TTG (MC)		U A						
5847	COMP+CAN	5/16	8.0 TTG (MC)		U A						
5848	COMP+CAN	3/8	10.0 TTG (MC)		U A						
5849	COMP+CAN	1/2	12.0 TTG (MC)		U A						
5850	COMP+CAN	*	15.0 TTG (4)		U A						
5851	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A						
7479	COMP+CAN	(H)	12,16+ LTG (ip)(A)	(.035)	U A						

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Produits Verrier International Inc. ; Montreal, Quebec</b>						<b>Qingdao Laurel Glass Technology Co., Ltd ; Qingdao, Shandong</b>					
5498	COMP+CAN	1/8	3.0 TTG (MC)		U A	7125	COMP+CAN	1/8	3.0 TTG		U A
5499	COMP+CAN	5/32	4.0 TTG (MC)		U A	7110	COMP+CAN	5/32	4.0 TTG		U A
5500	COMP+CAN	3/16	5.0 TTG (MC)		U A	8063	COMP+CAN	1/4	6.0 TTG		U A
5501	COMP+CAN	1/4	6.0 TTG (MC)		U A	8019	COMP+CAN	5/16	8.0 TTG		U A
7844	COMP+CAN	5/16	8.0 TTG		U A	7126	COMP+CAN	3/8	10.0 TTG		U A
5502	COMP+CAN	3/8	10.0 TTG		U A	8020	COMP+CAN	1/2	12.0 TTG		U A
5503	COMP+CAN	1/2	12.0 TTG		U A	8021	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
5504	COMP+CAN	1/8	3.0 TPG (d)		U A	<b>Qingdao Pioneer Glass Co.,Ltd. ; Qingdao, Shandong</b>					
5505	COMP+CAN	3/16	5.0 TPG (s)		U A	8529	COMP+CAN	*	3.0 TTG (3)		U A
8790	COMP+CAN	(H)	12 LTG (b)(A)	(.030)	U A	8530	COMP+CAN	5/32	4.0 TTG		U A
<b>ProTemp Glass, Inc. ; Concord, Ontario</b>						8531	COMP+CAN	3/16	5.0 TTG		U A
7410	COMP+CAN	5/32	4.0 TTG (MC)		U A	8532	COMP+CAN	1/4	6.0 TTG		U A
7411	COMP+CAN	3/16	5.0 TTG (MC)		U A	8216	COMP+CAN	3/8	10.0 TTG		U A
7382	COMP+CAN	1/4	6.0 TTG		U A	8685	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
7312	COMP+CAN	5/16	8.0 TTG (MC)		U A	<b>Qingdao Runya Glass Products Co., LTD ; Qingdao, Shandong</b>					
7313	COMP+CAN	3/8	10.0 TTG		U A	8620	COMP+CAN	1/2	12.0 TTG		U A
7314	COMP+CAN	1/2	12.0 TTG		U A	<b>Qinhuangdao Ampac Building Products Co., Ltd. ; Qinhuangdao, Hebei</b>					
7315	COMP+CAN	5/8	16.0 TTG		U A	5899	COMPOSITE	1/8	3.0 TTG (MC)		U A
7316	COMP+CAN	3/4	19.0 TTG		U A	5900	COMPOSITE	5/32	4.0 TTG		U A
7907	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.060)	U A	5902	COMPOSITE	5/32	4.0 TPG (s)		U A
<b>Przedsiębiorstwo Prywatne Rezal ; Leczycka, Lodz</b>						<b>Qinhuangdao Huaguang Technology Glass Co., Ltd. ; Qinhuangdao, Hebei</b>					
8626	COMP+CAN	H	8.0 LTG (b)(A)	(.030)	U A	8352	COMPOSITE	1/8	3.0 TTG		U A
<b>PT Abebersa Pratama ; Bekasi, Indonesia</b>						<b>Qinhuangdao Jingxin Glass Co., Ltd. ; Qinhuangdao, Hebei</b>					
3905	COMPOSITE	5/32	4.0 TTG (MC)		U A	5280	COMPOSITE	1/8	3.0 TTG (MC)		U A
3906	COMPOSITE	3/16	5.0 TTG		U A	<b>Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd ; Qinhuangdao, Hebei</b>					
8000	COMPOSITE	5/32	4.0 TPG (s)		U A	8533	COMP+CAN	12	12.0 TTG		U A
<b>Pulp Studio, Inc. ; Gardena, CA</b>						8534	COMP+CAN	(*)	15.0 TTG (3)		U A
7860	COMP+CAN	3/16	5.0 TTG		U A	<b>Qinhuangdao Qicaishi Glass Processing Co., Ltd. ; Qinhuangdao, Hebei</b>					
6416	COMP+CAN	1/4	6.0 TTG (MC)		U A	5141	COMPOSITE	1/8	3.0 TTG (MC)		U A
7807	COMP+CAN	3/8	10.0 TTG		U A	9032	COMPOSITE	5/32	4.0 TTG		U A
7808	COMP+CAN	1/2	12.0 TTG		U A	9031	COMPOSITE	5/32	4.0 TPG (d)		U A
4711	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	<b>Qinhuangdao Rongsheng Glass Processing Co., Ltd. ; Qinhuangdao, Hebei</b>					
<b>Qianse Acrylic Co., LTD. ; Dongguan, Guangdong Province</b>						7259	COMPOSITE (S)		6 LTG (b)(A)	(.030)	U A
7247	ANSI ONLY	1/8	3.0 SPS		U A	<b>Qinhuangdao Shengrui Glass Processing CO., LTD. ; Qinhuangdao, Hebei</b>					
<b>Qingdao Apis Glass Industries Co. Ltd. ; Qingdao, Shandong</b>						8664	COMPOSITE	1/8	3.0 TTG (MC)		U A
8349	COMP+CAN	1/4	6.0 TTG		U A	<b>QinHuangDao Tianrui Tempered Technology Glass Co. ; Qinhuangdao, Hebei</b>					
8350	COMP+CAN	3/8	10.0 TTG		U A	3690	COMPOSITE	1/8	3.0 TTG (MC)		U A
<b>Qingdao Glorious Future Energy-saving Glass Co.,Ltd. ; Qingdao, Shandong</b>						9046	COMPOSITE	5/32	4.0 TPG (d)		U A
8516	COMP+CAN	1/4	6.0 TTG		U A	<b>Qinhuangdao Yaoyou Engineering Glass Co., LTD. ; China</b>					
8517	COMP+CAN	3/8	10.0 TTG		U A	9039	COMPOSITE	1/4	6.0 TTG		U A
8518	COMP+CAN	1/2	12.0 TTG		U A						
8519	COMP+CAN	(H)	10-12 LTG (b)(T)	(.030)	U A						
8520	COMP+CAN	(H)	16+ LTG (ip)(T)	(.035)	U A						
8521	COMP+CAN	(H)	16+ LTG (b)(T)	(.060)	U A						
<b>Qingdao Ideal Building Material Co. Ltd. ; Qingdao, Shandong</b>											
6776	COMP+CAN	1/8	3.0 TTG		U A						
6777	COMP+CAN	5/32	4.0 TTG		U A						
<b>Qingdao Kingdom Glass Co., Ltd. ; Qingdao, Shandong</b>											
8410	COMP+CAN	1/4	6.0 TTG		U A						
7681	COMP+CAN	*	12.0 TTG (4)		U A						

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Quaker Window Products, Inc. ; Freeburg, MO</b>						<b>Resman Glass PVC Aluminum SAN. VE TIC. A.S. ; Samsun, Tekkekoy</b>					
2985	COMP+CAN	1/8	3.0 TTG (MC)		U A	8830	COMPOSITE	1/4	6.0 TTG		U A
5297	COMP+CAN	5/32	4.0 TTG (MC)		U A	8831	COMPOSITE	5/16	8.0 TTG		U A
2986	COMP+CAN	3/16	5.0 TTG (MC)		U A	8832	COMPOSITE	3/8	10.0 TTG		U A
3485	COMP+CAN	1/4	6.0 TTG (MC)		U A	8833	COMPOSITE	1/2	12.0 TTG		U A
7935	COMP+CAN	5/16	8.0 TTG		U A	8834	COMPOSITE	(H)	10 LTG (b)(A)	(.015)	U A
2968	COMP+CAN	1/8	3.0 TPG (m)		U A	<b>Rider Glass Company Limited ; Qingdao, Shandong</b>					
2969	COMP+CAN	5/32	4.0 TPG (m)(IN)		U A	8624	COMP+CAN	1/8	3.0 TTG		U A
3486	COMP+CAN	3/16	5.0 TPG (m)		U A	8625	COMP+CAN	5/32	4.0 TTG		U A
2970	COMP+CAN	1/4	6.0 TPG (m)(IN)		U A	8464	COMP+CAN	3/16	5.0 TTG		U A
<b>Quality Enclosures ; Central Islip, NY</b>						8465	COMP+CAN	1/4	6.0 TTG		U A
6440	COMP+CAN	3/16	5.0 TTG		U A	8466	COMP+CAN	5/16	8.0 TTG		U A
6441	COMP+CAN	1/4	6.0 TTG		U A	8467	COMP+CAN	3/8	10.0 TTG		U A
6442	COMP+CAN	3/8	10.0 TTG		U A	8875	COMP+CAN	*	12.0 TTG (3)		U A
6443	COMP+CAN	1/2	12.0 TTG		U A	8876	COMP+CAN	*	15.0 TTG (3)		U A
6444	COMP+CAN	3/16	5.0 TPG (s)		U A	8877	COMP+CAN	3/4	19.0 TTG		U A
6445	COMP+CAN	1/4	6.0 TPG (s)		U A	8873	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
6446	COMP+CAN	3/8	10.0 TPG (m)		U A	8874	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
<b>Quality Enclosures Tempering, Inc. ; Port Orange, FL</b>						<b>Rizhao Huaye Glass Co., Ltd. ; Rizhao, Shandong</b>					
6243	COMPOSITE	3/16	5.0 TTG		U A	5566	COMP+CAN	5/32	4.0 TTG		U A
6244	COMPOSITE	1/4	6.0 TTG		U A	5567	COMP+CAN	3/16	5.0 TTG		U A
6245	COMPOSITE	3/8	10.0 TTG		U A	5568	COMP+CAN	1/4	6.0 TTG		U A
6246	COMPOSITE	1/2	12.0 TTG		U A	5569	COMP+CAN	5/16	8.0 TTG		U A
6247	COMPOSITE	3/16	5.0 TPG (m)		U A	5570	COMP+CAN	3/8	10.0 TTG		U A
6248	COMPOSITE	1/4	6.0 TPG (s)		U A	5571	COMP+CAN	1/2	12.0 TTG		U A
6249	COMPOSITE	3/8	10.0 TPG (s)		U A	5572	COMP+CAN	*	15.0 TTG (4)		U A
<b>Quality Glass &amp; Mirror, Inc. ; Mount Prospect, IL</b>						5580	COMP+CAN	(S)	6 LTG (b)(A)	(.015)	U A
8914	COMPOSITE	5/32	4.0 TTG		U A	5581	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.015)	U A
8915	COMPOSITE	3/16	5.0 TTG		U A	<b>Robover Inc. ; Quebec City, Quebec</b>					
8916	COMPOSITE	1/4	6.0 TTG		U A	5199	COMP+CAN	1/8	3.0 TTG (MC)		U A
8917	COMPOSITE	3/8	10.0 TTG		U A	5200	COMP+CAN	5/32	4.0 TTG (MC)		U A
8918	COMPOSITE	1/2	12.0 TTG		U A	5201	COMP+CAN	3/16	5.0 TTG (MC)		U A
<b>Quest USA, Inc. ; Garland, TX</b>						5202	COMP+CAN	1/4	6.0 TTG (MC)		U A
7659	COMP+CAN	1/4	6.0 TTG (MC)		U A	5763	COMP+CAN	3/8	10.0 TTG		U A
<b>Quest Window Systems ; Mississauga, Ontario</b>						5764	COMP+CAN	1/2	12.0 TTG		U A
5719	COMP+CAN	1/4	6.0 TTG (MC)		U A	<b>Rohden Vidros LTDA (Unidade 2) ; Pouso Redondo, Santa Catarina</b>					
<b>Ready Glass &amp; Mirror, Inc. ; Hialeah, FL</b>						8103	COMP+CAN	5/32	4.0 TTG		U A
3745	COMPOSITE	3/16	5.0 TTG		U A	8192	COMP+CAN	1/4	6.0 TTG		U A
3746	COMPOSITE	1/4	6.0 TTG		U A	<b>S.F. Tempering ; Dania Beach, FL</b>					
3747	COMPOSITE	3/8	10.0 TTG		U A	5452	COMPOSITE	3/16	5.0 TTG		U A
3748	COMPOSITE	1/2	12.0 TTG		U A	5019	COMPOSITE	1/4	6.0 TTG		U A
5634	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.035)	U A	5020	COMPOSITE	3/8	10.0 TTG		U A
7013	COMPOSITE	(H)	8-12 LTG (b)(A)(IN)	(.015)	U A	5021	COMPOSITE	1/2	12.0 TTG		U A
<b>Reem Emirates Aluminum &amp; Glass ; Abu Dhabi, United Arab Emirates</b>						6694	COMPOSITE	(S)	6 LTG (ev)(A)	(.015)	U B
4675	COMPOSITE	1/4	6.0 TTG		U A	6695	COMPOSITE	(H)	12-16+ LTG (ev)(A)	(.015)	U B
4676	COMPOSITE	5/16	8.0 TTG		U A	<b>SAAND Inc. ; Toronto, Ontario</b>					
4677	COMPOSITE	3/8	10.0 TTG		U A	2481	COMP+CAN	1/8	3.0 TTG (MC)		U A
6971	COMPOSITE	(H)	16 LTG (b)(A)	(.060)	U A	2482	COMP+CAN	5/32	4.0 TTG (MC)		U A
<b>Renin Canada Corp. ; Brampton, Ontario</b>						3023	COMP+CAN	3/16	5.0 TTG (MC)		U A
8318	COMP+CAN	1/4	6.0 TTG		U A	2484	COMP+CAN	1/4	6.0 TTG (MC)		U A
8278	COMP+CAN	3/8	10.0 TTG		U A	4356	COMP+CAN	5/16	8.0 TTG		U A
8319	COMP+CAN	1/2	12.0 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 CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>SAAND London ; London, Ontario</b>						<b>Senneca Holdings Inc, (Thermoseal Brand) ; Irving, TX</b>					
3978	COMP+CAN	1/8	3.0 TTG (MC)		U A	7640	COMPOSITE	1/8	3.0 TTG (MC)		U A
4278	COMP+CAN	5/32	4.0 TTG (MC)		U A	8878	COMPOSITE	5/32	4.0 TTG (MC)		U A
3979	COMP+CAN	3/16	5.0 TTG (MC)		U A	7641	COMPOSITE	3/16	5.0 TTG (MC)		U A
3980	COMP+CAN	1/4	6.0 TTG (MC)		U A	7642	COMPOSITE	1/4	6.0 TTG		U A
7658	COMP+CAN	5/16	8.0 TTG		U A	<b>Sfera SRL ; Meolo, Metropolitan City of Venice</b>					
3981	COMP+CAN	3/8	10.0 TTG		U A	8087	COMP+CAN	5/32	4.0 TBG (MC)		U A
7536	COMP+CAN	1/2	12.0 TTG		U A	6079	COMP+CAN	1/4	6.0 TBG (MC)		U A
<b>SAAND Ottawa ; Stittsville, Ontario</b>						8086	COMP+CAN	5/16	8.0 TBG (MC)		U A
4949	COMP+CAN	1/8	3.0 TTG (MC)		U A	<b>Shandong Jinjing Science &amp; Technology Stock Co., Ltd. ; Zibo, Shandong</b>					
4950	COMP+CAN	5/32	4.0 TTG (MC)		U A	8483	COMPOSITE	1/8	3.0 TTG		U A
4951	COMP+CAN	3/16	5.0 TTG (MC)		U A	8256	COMPOSITE	5/32	4.0 TTG		U A
4952	COMP+CAN	1/4	6.0 TTG (MC)		U A	8257	COMPOSITE	1/4	6.0 TTG		U A
4953	COMP+CAN	3/8	10.0 TTG		U A	8259	COMPOSITE	3/8	10.0 TTG		U A
4954	COMP+CAN	1/2	12.0 TTG		U A	8250	COMPOSITE	(H)	12,16 LTG (b)(T)	(.030)	U A
<b>SAAND Rexdale ; Rexdale, Ontario</b>						<b>Shandong Kingtom Glass Co., Ltd. ; Qingdao, Shandong</b>					
4995	COMP+CAN	1/8	3.0 TTG		U A	8311	COMP+CAN	3/16	5.0 TTG		U A
4996	COMP+CAN	5/32	4.0 TTG		U A	7917	COMP+CAN	1/4	6.0 TTG		U A
4997	COMP+CAN	3/16	5.0 TTG		U A	7918	COMP+CAN	5/16	8.0 TTG		U A
4998	COMP+CAN	1/4	6.0 TTG		U A	7919	COMP+CAN	3/8	10.0 TTG		U A
4999	COMP+CAN	3/8	10.0 TTG		U A	7916	COMP+CAN	3/16	5.0 TPG (s)		U A
5000	COMP+CAN	1/2	12.0 TTG		U A	8312	COMP+CAN	1/4	6.0 TPG (s)		U A
5001	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	<b>Shandong Taishan Huayue Glass Co., Ltd. ; Tai'an, Shandong</b>					
5002	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	8355	COMP+CAN	1/4	6.0 TTG		U A
<b>Sado Germany Window JSC ; Bien Hoa City, Dong Nai Province</b>						8356	COMP+CAN	5/16	8.0 TTG		U A
9030	COMPOSITE	3/8	10.0 TTG		U A	8722	COMP+CAN	(H)	8 LTG (HS)(A)	(.060)	U A
<b>Safti First ; Merced, CA</b>						<b>Shandong Yaohua Glass Co., Ltd. ; Jinan, Shandong</b>					
8983	COMP+CAN	1/8	3.0 TTG		U A	7335	COMP+CAN	3/16	5.0 TTG		U A
8984	COMP+CAN	3/16	5.0 TTG		U A	7336	COMP+CAN	1/4	6.0 TTG		U A
8985	COMP+CAN	1/4	6.0 TTG		U A	7337	COMP+CAN	3/8	10.0 TTG		U A
8986	COMP+CAN	3/8	10.0 TTG		U A	7338	COMP+CAN	*	12.0 TTG (3)		U A
8987	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	7967	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
8981	COMP+CAN	(S)	6 LTG (ev)(A)	(.030)	U A	8212	COMP+CAN	(H)	16+ LTG (ip)(A)	(.035)	U A
8982	COMP+CAN	(H)	10-12 LTG (ev)(A)	(.030)	U A	<b>Shanghai Borden Decoration Materials Co., Ltd. ; Pudong, Shanghai</b>					
8988	COMP+CAN	(H)	10-12 LTG (b)(A)	(.030)	U A	8822	COMPOSITE	5/32	4.0 TTG		U A
8989	COMP+CAN	(H)	12-16+ LTG (ip)(A)	(.035)	U A	8823	COMPOSITE	3/16	5.0 TTG		U A
<b>SAGE Electrochromics Inc. ; Faribault, MN</b>						8824	COMPOSITE	1/4	6.0 TTG		U A
8855	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	8825	COMPOSITE	5/16	8.0 TTG		U A
7003	COMP+CAN	(S)	6 LTG (ip)(A)	(.035)	U A	8826	COMPOSITE	3/8	10.0 TTG		U A
8856	COMP+CAN	(H)	8-12 LTG (b)(A)	(.030)	U A	<b>Shanghai Jiajie Glass Co., Ltd. ; Baoshan District, Shanghai</b>					
5016	COMP+CAN	(H)	8-12 LTG (ip)(A)	(.035)	U A	9049	COMP+CAN	3/16	5.0 TTG		U A
<b>Saint Gobain Mexico, S.A. de C.V. ; Cuautla, Morelos, Mexico</b>						9050	COMP+CAN	3/8	10.0 TTG		U A
8152	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	9051	COMP+CAN	1/2	12.0 TTG		U A
8153	COMP+CAN	(H)	8 LTG (b)(A)	(.015)	U A	9052	COMP+CAN	*	15.0 TTG (3)		U A
8154	COMP+CAN	(H)	8,12 LTG (b)(A)	(.030)	U A	9053	COMP+CAN	3/4	19.0 TTG		U A
8155	COMP+CAN	(H)	10 LTG (b)(A)	(.090)	U A	9047	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
<b>Saudi American Glass Company ; Riyadh, Saudi Arabia</b>						9048	COMP+CAN	(H)	12-16+ LTG (b)(T)	(.060)	U A
8500	COMPOSITE	1/4	6.0 TTG		U A						
8501	COMPOSITE	5/16	8.0 TTG		U A						
8502	COMPOSITE	(H)	10,12 LTG (b)(A)	(.060)	U A						

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
<b>Shanghai SYP Engineering Glass ; Pudong, Shanghai</b>						<b>SIGCO, Inc. ; Westbrook, ME</b>					
4067	COMP+CAN	5/32	4.0 TTG (MC)		U A	2961	COMPOSITE	1/8	3.0 TTG (MC)		U A
4068	COMP+CAN	3/16	5.0 TTG (MC)		U A	2962	COMPOSITE	5/32	4.0 TTG (MC)		U A
4069	COMP+CAN	1/4	6.0 TTG (MC)		U A	2963	COMPOSITE	3/16	5.0 TTG (MC)		U A
4070	COMP+CAN	5/16	8.0 TTG (MC)		U A	2964	COMPOSITE	1/4	6.0 TTG (MC)		U A
4071	COMP+CAN	3/8	10.0 TTG (MC)		U A	5213	COMPOSITE	5/16	8.0 TTG		U A
4072	COMP+CAN	1/2	12.0 TTG (MC)		U A	2965	COMPOSITE	3/8	10.0 TTG		U A
4073	COMP+CAN	*	15.0 TTG (4)(MC)		U A	2966	COMPOSITE	1/2	12.0 TTG		U A
6988	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	3028	COMPOSITE	3/16	5.0 TPG (m)		U A
8805	COMP+CAN	(H)	12, 16+ LTG (ip)(A)	(.060)	U A	4206	COMPOSITE	3/8	10.0 TPG (s)		U A
<b>Shanghai Zhenzhen Glassware Co., LTD. ; Fengxian District, Shanghai</b>						6012 COMP+CAN (S) 6 LTG (b)(A) (.030) U A					
6125	COMP+CAN	1/4	6.0 TTG		U A	6014	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.060)	U A
6126	COMP+CAN	3/8	10.0 TTG		U A	6013	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
<b>Shape Glass LLC. ; Sarasota, FL</b>						<b>Simonton Windows ; Ellenboro, WV</b>					
6502	COMPOSITE	1/8	3.0 TTG		U A	2887	COMPOSITE	1/8	3.0 TTG (MC)		U A
6503	COMPOSITE	3/16	5.0 TTG		U A	2888	COMPOSITE	3/16	5.0 TTG (MC)		U A
6504	COMPOSITE	1/4	6.0 TTG		U A	5296	COMPOSITE	1/8	3.0 TPG (s)		U A
6505	COMPOSITE	3/8	10.0 TTG		U A	8411	COMPOSITE	3/16	5.0 TPG (s)		U A
6506	COMPOSITE	1/2	12.0 TTG		U A	<b>Simonton Windows ; Paris, IL</b>					
6507	COMPOSITE	3/16	5.0 TPG (s)		U A	4979	COMPOSITE	1/8	3.0 TTG (MC)		U A
6947	COMPOSITE	3/8	10.0 TPG (s)		U A	4978	COMPOSITE	3/16	5.0 TTG (MC)		U A
<b>Shenzhen Shennanyi Glass Product Co., Ltd ; Shenzhen, Guangdong Province</b>						7251 COMPOSITE 1/8 3.0 TPG (m) U A					
8522	COMP+CAN	1/4	6.0 TTG		U A	<b>Sisecam Flat Glass Italy S.r.l. ; S. Giorgio Di Nogaro, Italy</b>					
8723	COMP+CAN	5/16	8.0 TTG		U A	8764	COMP+CAN	(S)	6 LTG (b)(A)	(.015)	U A
8523	COMP+CAN	3/8	10.0 TTG		U A	8765	COMP+CAN	(H)	8 LTG (b)(A)	(.015)	U A
8524	COMP+CAN	*	12.0 TTG (3)		U A	<b>Sky Land Tempering Glass Corp ; Long Island City, NY</b>					
8525	COMP+CAN	3/4	19.0 TTG		U A	5467	COMPOSITE	3/16	5.0 TTG (MC)		U A
8425	COMP+CAN	(H)	16+ LTG (b)(A)	(.060)	U A	5468	COMPOSITE	1/4	6.0 TTG (MC)		U A
<b>Shenzhen Sun Global Glass Co., Limited ; Shenzhen, Guangdong Province</b>						5469 COMPOSITE 3/8 10.0 TTG U A					
6970	COMP+CAN	(H)	8-10 LTG (b)(A)	(.060)	U A	5470	COMPOSITE	1/2	12.0 TTG		U A
<b>Shower Doors &amp; More Inc. ; Fort Lauderdale, FL</b>						<b>Skyline Design ; Chicago, IL</b>					
5756	COMPOSITE	3/16	5.0 TTG		U A	6340	COMP+CAN	1/4	6.0 TTG		U A
5757	COMPOSITE	1/4	6.0 TTG		U A	6343	COMP+CAN	1/2	12.0 TTG		U A
5758	COMPOSITE	3/8	10.0 TTG		U A	6347	COMP+CAN	1/4	6.0 TPG (s)		U A
5759	COMPOSITE	1/2	12.0 TTG		U A	6350	COMP+CAN	1/2	12.0 TPG (s)		U A
<b>Sichuan CSG Energy Conservation Glass Co., Ltd. ; Chengdu, Sichuan</b>						<b>Smart Glass Group ; Fort Lauderdale, FL</b>					
7050	COMPOSITE	3/16	5.0 TTG		U A	9059	COMP+CAN	(H)	12 LTG (ev)(HS)	(.030)	U A
7051	COMPOSITE	1/4	6.0 TTG		U A	<b>Soluciones Arquitectonicas, S.A. De C.V. ; San Pedro Sula, Honduras</b>					
7052	COMPOSITE	5/16	8.0 TTG		U A	8585	COMPOSITE	3/8	10.0 TTG		U A
7053	COMPOSITE	3/8	10.0 TTG		U A	8586	COMPOSITE	1/2	12.0 TTG		U A
7054	COMPOSITE	1/2	12.0 TTG		U A	<b>Soluciones Vitro Plano S.A. de C.V. ; Tlalnepantla de Baz, State of Mexico</b>					
7055	COMPOSITE	*	15.0 TTG (4)		U A	4639	COMPOSITE	3/16	5.0 TTG		U A
7056	COMPOSITE	(H)	10-16+ LTG (b)(A)	(.030)	U A	4645	COMPOSITE	1/4	6.0 TTG (MC)		U A
<b>Sierra Glass Fabrication Inc. ; Sparks, NV</b>						4788 COMPOSITE 5/16 8.0 TTG U A					
7670	COMPOSITE	1/8	3.0 TTG (MC)		U A	4640	COMPOSITE	3/8	10.0 TTG		U A
6186	COMPOSITE	3/16	5.0 TTG (MC)		U A	4641	COMPOSITE	1/2	12.0 TTG		U A
						4642 COMPOSITE 3/4 19.0 TTG U A					
						<b>South Bay Showers, Inc. ; Santa Clara, CA</b>					
						7252 COMPOSITE 1/4 6.0 TTG U A					
						7253 COMPOSITE 5/16 8.0 TTG (IN) U A					
						6927 COMPOSITE 3/8 10.0 TTG U A					
						6928 COMPOSITE 1/2 12.0 TTG U A					
						7254 COMPOSITE 3/8 10.0 TPG (s) U A					

Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Southern Wholesale Glass, Inc. ; Americus, GA</b>					<b>Sunglas Technics Co., Ltd. ; Foshan, Guangdong Province</b>				
7349	COMPOSITE	1/4	6.0 TTG	U A	8090	COMPOSITE	1/4	6.0 TTG	U A
7350	COMPOSITE	3/8	10.0 TTG	U A	9036	COMPOSITE	5/16	8.0 TTG	U A
<b>Specialty Glass Products ; Grand Rapids, MI</b>					<b>Swift Glass Co., Inc. ; Elmira Heights, NY</b>				
9011	COMP+CAN	5/32	4.0 TTG	U A	1555	COMPOSITE	1/8	3.0 TTG	U A
9012	COMP+CAN	3/16	5.0 TTG	U A	1556	COMPOSITE	3/16	5.0 TTG	U A
9013	COMP+CAN	1/4	6.0 TTG	U A	1557	COMPOSITE	1/4	6.0 TTG	U A
9014	COMP+CAN	3/8	10.0 TTG	U A	1558	COMPOSITE	3/8	10.0 TTG	U A
9015	COMP+CAN	1/2	12.0 TTG	U A	1559	COMPOSITE	1/2	12.0 TTG	U A
<b>Splendor Shower Door ; Holland, OH</b>					<b>Synergy Energy Saving Glass (Tianjin) Co., Ltd. ; Baodi District, Tianjin</b>				
7753	COMPOSITE	5/32	4.0 TTG	U A	8749	COMPOSITE	3/8	10.0 VIGT (MC)	U A
7754	COMPOSITE	3/16	5.0 TTG	U A	<b>Syracuse Glass Company, LLC ; Syracuse, NY</b>				
7755	COMPOSITE	1/4	6.0 TTG	U A	2654	COMP+CAN	1/8	3.0 TTG	U A
7756	COMPOSITE	3/8	10.0 TTG	U A	2957	COMP+CAN	3/16	5.0 TTG (MC)	U A
7757	COMPOSITE	1/2	12.0 TTG	U A	2656	COMP+CAN	1/4	6.0 TTG (MC)	U A
7758	COMPOSITE	5/32	4.0 TPG (s)	U A	2958	COMP+CAN	3/8	10.0 TTG (MC)	U A
7759	COMPOSITE	3/16	5.0 TPG (m)	U A	2657	COMP+CAN	1/2	12.0 TTG	U A
7761	COMPOSITE	3/8	10.0 TPG (s)	U A	6391	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
<b>Standard Bent Glass ; East Butler, PA</b>					<b>Tacoma Glass Mfg. Inc. ; Burlington, WA</b>				
8543	COMP+CAN	3/16	5.0 TTG (MC)	U A	6392	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A
6301	COMP+CAN	1/4	6.0 TTG	U A	6393	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.060) U A
6302	COMP+CAN	5/16	8.0 TTG	U A	<b>Tacoma Glass Mfg. Inc. ; Tacoma, WA</b>				
6303	COMP+CAN	3/8	10.0 TTG	U A	5165	COMPOSITE	1/4	6.0 TTG (MC)	U A
6304	COMP+CAN	1/2	12.0 TTG	U A	5166	COMPOSITE	3/8	10.0 TTG	U A
8616	COMP+CAN	1/4	6.0 TBG	U A	5167	COMPOSITE	1/2	12.0 TTG	U A
7675	COMP+CAN	5/16	8.0 TBG	U A	<b>Tacoma Glass Mfg. Inc. ; Tacoma, WA</b>				
7676	COMP+CAN	3/8	10.0 TBG (IN)	U A	8188	COMPOSITE	1/4	6.0 TTG (MC)	U A
7677	COMP+CAN	1/2	12.0 TBG	U A	8189	COMPOSITE	3/8	10.0 TTG	U A
6305	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A	8190	COMPOSITE	1/2	12.0 TTG	U A
6306	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030) U A	8186	COMPOSITE	(S)	6 LTG (b)(A)	(.030) U A
<b>Star Glass Tempering LLC ; Elk Grove Village, IL</b>					<b>Tai Shan City Da Heng Art Glass Ltd. ; Tai Shan, Guangdong Province</b>				
8549	COMPOSITE	1/4	6.0 TTG	U A	3787	COMP+CAN	1/8	3.0 TTG	U A
8550	COMPOSITE	3/8	10.0 TTG	U A	<b>Tai Sheng (Dong Guan) Glass Co.,Ltd ; Dongguan, Guangdong Province</b>				
8551	COMPOSITE	1/2	12.0 TTG	U A	6140	COMP+CAN	1/8	3.0 TTG	U A
<b>Stargrup Cam A.S. ; Arnautkoy, Istanbul</b>					<b>Tai Sheng (Dong Guan) Glass Co.,Ltd ; Dongguan, Guangdong Province</b>				
8219	COMP+CAN	5/32	4.0 TTG	U A	4870	COMP+CAN	5/32	4.0 TTG	U A
8220	COMP+CAN	3/16	5.0 TTG	U A	5487	COMP+CAN	3/16	5.0 TTG	U A
6204	COMP+CAN	1/4	6.0 TTG	U A	4872	COMP+CAN	1/4	6.0 TTG	U A
7579	COMP+CAN	5/16	8.0 TTG	U A	4873	COMP+CAN	5/16	8.0 TTG	U A
6205	COMP+CAN	3/8	10.0 TTG	U A	5486	COMP+CAN	3/8	10.0 TTG	U A
6206	COMP+CAN	1/2	12.0 TTG	U A	8503	COMP+CAN	5/32	4.0 TPG (m)	U A
8221	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035) U A	6053	COMP+CAN	3/16	5.0 TBG	U A
6207	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.015) U A	6055	COMP+CAN	1/4	6.0 TBG	U A
<b>Strong Tempering Glass Industry LLC ; Brooklyn, NY</b>					<b>Technical Glass Company ; Jeddah, Saudi Arabia</b>				
5939	COMPOSITE	3/16	5.0 TTG (MC)	U A	7952	COMP+CAN	1/4	6.0 TTG	U A
5940	COMPOSITE	1/4	6.0 TTG (MC)	U A	7953	COMP+CAN	5/16	8.0 TTG	U A
5942	COMPOSITE	3/8	10.0 TTG	U A	7954	COMP+CAN	3/8	10.0 TTG	U A
5941	COMPOSITE	1/2	12.0 TTG	U A	7955	COMP+CAN	*	12.0 TTG (7)	U A
<b>Sunfire Glass, Inc. ; Medley, FL</b>					<b>Technical Glass Company ; Jeddah, Saudi Arabia</b>				
7036	COMPOSITE	3/16	5.0 TTG (MC)	U A	7956	COMP+CAN	(H)	8,12-16+ LTG (b)(A)	(.045) U A
7033	COMPOSITE	1/4	6.0 TTG	U A					
7037	COMPOSITE	3/8	10.0 TTG	U A					
7405	COMPOSITE	1/2	12.0 TTG (IN)	U A					
7038	COMPOSITE	3/16	5.0 TPG (s)	U A					



**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Techni-Glass LLC ; Surgoinville, TN</b>					<b>Templados Del Centro SA DE C.V. ; Irapuato, Guanajuato</b>				
2547	COMP+CAN	1/8	3.0 TTG (MC)	U A	8966	COMP+CAN	1/4	6.0 TTG	U A
2548	COMP+CAN	5/32	4.0 TTG	U A	8967	COMP+CAN	3/8	10.0 TTG	U A
2549	COMP+CAN	3/16	5.0 TTG	U A	8968	COMP+CAN	1/2	12.0 TTG	U A
2975	COMP+CAN	1/4	6.0 TTG	U A	6170	COMP+CAN	(H)	10 LTG (b)(A)	(.060) U A
3062	COMP+CAN	3/8	10.0 TTG	U A	6019	COMP+CAN	(H)	12 LTG (b)(A)	(.030) U A
4509	COMP+CAN	1/2	12.0 TTG	U A	<b>Templados Industriales S.A. de C.V. ; Chihuahua, Chihuahua</b>				
4510	COMP+CAN	5/8	16.0 TTG	U A	7880	COMPOSITE	1/4	6.0 TTG (MC)	U A
3061	COMP+CAN	1/8	3.0 TPG (m)	U A	7881	COMPOSITE	3/8	10.0 TTG	U A
5050	COMP+CAN	5/32	4.0 TPG (m)	U A	<b>Tengzhou Fenghua Glass Co., LTD ; Zaozhuang, Shandong</b>				
2550	COMP+CAN	3/16	5.0 TPG (m)	U A	8861	COMP+CAN	5/32	4.0 TTG	U A
3060	COMP+CAN	1/4	6.0 TPG (s)	U A	6418	COMP+CAN	3/16	5.0 TTG	U A
<b>Tecnoglass S.A.S. ; Barrio Las Flores, Barranquilla</b>					6419	COMP+CAN	1/4	6.0 TTG	U A
2133	COMP+CAN	1/8	3.0 TTG (MC)	U A	6420	COMP+CAN	5/16	8.0 TTG	U A
2287	COMP+CAN	5/32	4.0 TTG (MC)	U A	6421	COMP+CAN	3/8	10.0 TTG	U A
1993	COMP+CAN	3/16	5.0 TTG (MC)	U A	6422	COMP+CAN	1/2	12.0 TTG	U A
1994	COMP+CAN	1/4	6.0 TTG (MC)	U A	6424	COMP+CAN	5/32	4.0 TPG (s)	U A
2134	COMP+CAN	5/16	8.0 TTG (MC)	U A	6425	COMP+CAN	3/16	5.0 TPG (s)	U A
1995	COMP+CAN	3/8	10.0 TTG (MC)	U A	6426	COMP+CAN	1/4	6.0 TPG (s)	U A
2135	COMP+CAN	1/2	12.0 TTG	U A	7936	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
2365	COMP+CAN	5/8	16.0 TTG	U A	<b>TG Qingdao Glass Co., Ltd. ; Qingdao, Shandong</b>				
4003	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A	8194	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
<b>Tecnovidrio S.A. de C.V. ; Delegacion Iztacalco, Mexico City</b>					<b>TG Taicang Architectural Glass Co. Ltd ; Suzhou, Jiangsu</b>				
7272	COMP+CAN	1/4	6.0 TTG (MC)	U A	7446	COMP+CAN	3/16	5.0 TTG	U A
7273	COMP+CAN	3/8	10.0 TTG	U A	7447	COMP+CAN	1/4	6.0 TTG	U A
7274	COMP+CAN	1/2	12.0 TTG	U A	7448	COMP+CAN	5/16	8.0 TTG	U A
7275	COMP+CAN	3/4	19.0 TTG	U A	7449	COMP+CAN	3/8	10.0 TTG	U A
8657	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A	7450	COMP+CAN	1/2	12.0 TTG	U A
9040	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035) U A	7433	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.060) U A
<b>TEMCOR S. DE RL DE CV ; H. Matamoros, Tamps</b>					<b>TG Tianjin Glass Co., Ltd. ; Jinghai, Tianjin</b>				
8535	COMPOSITE	1/4	6.0 TTG	U A	8473	COMP+CAN	1/4	6.0 TTG	U A
8051	COMPOSITE	3/8	10.0 TTG	U A	8474	COMP+CAN	5/16	8.0 TTG	U A
8050	COMPOSITE	1/2	12.0 TTG	U A	8475	COMP+CAN	(H)	10 LTG (b)(T)	(.060) U A
<b>Temp Glass Inc. ; El Paso, TX</b>					<b>The Glass Factory, LLC ; Donna, Texas</b>				
6698	COMPOSITE	3/16	5.0 TTG	U A	8889	COMPOSITE	1/4	6.0 TTG	U A
6699	COMPOSITE	1/4	6.0 TTG (MC)	U A	8890	COMPOSITE	3/8	10.0 TTG	U A
6700	COMPOSITE	3/8	10.0 TTG	U A	8891	COMPOSITE	1/2	12.0 TTG	U A
6701	COMPOSITE	1/2	12.0 TTG	U A	<b>The Glass Guild Ltd. ; Calgary, Alberta</b>				
<b>Tempco Glass ; Flushing, NY</b>					8631	COMP+CAN	5/32	4.0 TTG	U A
6715	COMPOSITE	1/8	3.0 TTG (MC)	U A	8632	COMP+CAN	3/16	5.0 TTG	U A
5010	COMPOSITE	3/16	5.0 TTG (MC)	U A	8634	COMP+CAN	3/8	10.0 TTG	U A
5011	COMPOSITE	1/4	6.0 TTG (MC)	U A	8635	COMP+CAN	1/2	12.0 TTG	U A
7285	COMPOSITE	5/16	8.0 TTG	U A	<b>Thermax A.J. Inc. ; Baie St. Paul, Quebec</b>				
5012	COMPOSITE	3/8	10.0 TTG	U A	8326	COMP+CAN	1/8	3.0 TTG (MC)	U A
5013	COMPOSITE	1/2	12.0 TTG	U A	8327	COMP+CAN	5/32	4.0 TTG (MC)	U A
<b>Tempered Glass Industries, INC. ; Clearwater, FL</b>					8328	COMP+CAN	3/16	5.0 TTG (MC)	U A
8490	COMPOSITE	5/32	4.0 TTG	U A	8329	COMP+CAN	1/4	6.0 TTG (MC)	U A
8979	COMPOSITE	3/16	5.0 TTG	U A	8330	COMP+CAN	3/8	10.0 TTG	U A
8491	COMPOSITE	1/4	6.0 TTG	U A	8665	COMP+CAN	5/32	4.0 TPG (m)	U A
8980	COMPOSITE	3/8	10.0 TTG	U A	8325	COMP+CAN	3/16	5.0 TPG (s)	U A
8493	COMPOSITE	1/2	12.0 TTG	U A					
8494	COMPOSITE	3/8	10.0 TPG (s)	U A					

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Thermal Seal Insulating Glass ; Uxbridge, MA</b>						<b>Tianjin SYP Engineering Glass Co., Ltd. ; Beichen District, Tianjin</b>					
5731	COMPOSITE	1/8	3.0 TTG (MC)		U A	4075	COMP+CAN	3/16	5.0 TTG (MC)		U A
5732	COMPOSITE	5/32	4.0 TTG (MC)		U A	4076	COMP+CAN	1/4	6.0 TTG (MC)		U A
5733	COMPOSITE	3/16	5.0 TTG (MC)		U A	4077	COMP+CAN	5/16	8.0 TTG (MC)		U A
5734	COMPOSITE	1/4	6.0 TTG (MC)		U A	4078	COMP+CAN	3/8	10.0 TTG (MC)		U A
5735	COMPOSITE	3/8	10.0 TTG		U A	4079	COMP+CAN	*	12.0 TTG (3)(MC)		U A
5736	COMPOSITE	1/2	12.0 TTG		U A	4080	COMP+CAN	*	15.0 TTG (3)(MC)		U A
5730	COMPOSITE	1/8	3.0 TPG (s)		U A	4081	COMP+CAN	3/4	19.0 TTG (MC)		U A
<b>Thermalsun Glass Products ; Santa Rosa, CA</b>						<b>Tomakk Glass Partners, LLC ; Shreveport, LA</b>					
6265	COMPOSITE	1/8	3.0 TTG (MC)		U A	7736	COMP+CAN	1/8	3.0 TTG		U A
6266	COMPOSITE	5/32	4.0 TTG (MC)		U A	7737	COMP+CAN	3/16	5.0 TTG		U A
6267	COMPOSITE	3/16	5.0 TTG (MC)		U A	7738	COMP+CAN	1/4	6.0 TTG		U A
6268	COMPOSITE	1/4	6.0 TTG (MC)		U A	7739	COMP+CAN	3/8	10.0 TTG		U A
6269	COMPOSITE	3/8	10.0 TTG		U A	7740	COMP+CAN	1/2	12.0 TTG		U A
6270	COMPOSITE	1/2	12.0 TTG		U A	<b>Treaty City Industries Inc. ; Greenville OH</b>					
<b>Thermo BSL ; Riviere-du-loup, Quebec</b>						<b>Tristar Glass, Inc. ; Catoosa, OK</b>					
4290	COMP+CAN	1/8	3.0 TTG (MC)		U A	4004	COMPOSITE	1/8	3.0 TTG (MC)		U A
4291	COMP+CAN	5/32	4.0 TTG (MC)		U A	4005	COMPOSITE	5/32	4.0 TTG		U A
4292	COMP+CAN	3/16	5.0 TTG (MC)		U A	4006	COMPOSITE	3/16	5.0 TTG (MC)		U A
4293	COMP+CAN	1/4	6.0 TTG (MC)		U A	4007	COMPOSITE	1/4	6.0 TTG (MC)		U A
7094	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	7072	COMPOSITE	5/16	8.0 TTG		U A
5673	COMP+CAN	(H)	8 LTG (b)(A)	(.030)	U A	4008	COMPOSITE	3/8	10.0 TTG		U A
5674	COMP+CAN	(H)	10 LTG (ip)(A)	(.090)	U A	4009	COMPOSITE	1/2	12.0 TTG		U A
<b>Thompson I.G. LLC. ; Fenton, MI</b>						<b>Tristar Glass, Inc. ; Grand Prairie, TX</b>					
5303	COMP+CAN	1/8	3.0 TTG (MC)		U A	5109	COMPOSITE	1/4	6.0 TTG (MC)		U A
8762	COMP+CAN	5/32	4.0 TTG		U A	<b>Tristar Glass, Inc. ; Houston, TX</b>					
5304	COMP+CAN	3/16	5.0 TTG (MC)		U A	5762	COMPOSITE	1/4	6.0 TTG		U A
5305	COMP+CAN	1/4	6.0 TTG (MC)		U A	7080	COMPOSITE	5/16	8.0 TTG		U A
8763	COMP+CAN	5/16	8.0 TTG		U A	7081	COMPOSITE	3/8	10.0 TTG		U A
5298	COMP+CAN	3/8	10.0 TTG		U A	<b>Triton Glass LLC ; Albemarle, NC</b>					
5299	COMP+CAN	1/2	12.0 TTG		U A	5690	COMPOSITE	1/8	3.0 TTG (MC)		U A
8180	COMP+CAN	(H)	8-12 LTG (b)(A)	(.030)	U A	5691	COMPOSITE	3/16	5.0 TTG (MC)		U A
7025	COMP+CAN	(H)	8-12 LTG (ip)(A)	(.035)	U A	5692	COMPOSITE	1/4	6.0 TTG (MC)		U A
<b>Tianjin CSG Energy Conservation Glass Co., Ltd ; Wuqing District, Tianjin</b>						<b>Trulite Glass &amp; Aluminum Solutions Canada, ULC ; Bois-des-Filion, Quebec</b>					
4021	COMP+CAN	5/32	4.0 TTG		U A	6061	COMP+CAN	3/16	5.0 TTG		U A
4022	COMP+CAN	3/16	5.0 TTG		U A	6062	COMP+CAN	1/4	6.0 TTG		U A
4023	COMP+CAN	1/4	6.0 TTG		U A	6063	COMP+CAN	5/16	8.0 TTG		U A
4024	COMP+CAN	5/16	8.0 TTG		U A	6064	COMP+CAN	3/8	10.0 TTG		U A
4025	COMP+CAN	3/8	10.0 TTG		U A	6065	COMP+CAN	1/2	12.0 TTG		U A
4026	COMP+CAN	1/2	12.0 TTG		U A	6066	COMP+CAN	5/8	16.0 TTG		U A
4027	COMP+CAN	*	15.0 TTG (4)		U A	6067	COMP+CAN	3/4	19.0 TTG		U A
4028	COMP+CAN	3/4	19.0 TTG		U A	<b>Tianjin Northglass Industrial Technical Co., Ltd ; Baodi District, Tianjin</b>					
4030	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	5220	COMPOSITE	5/16	8.0 TTG (MC)		U A
<b>Tianjin Northglass Industrial Technical Co., Ltd ; Baodi District, Tianjin</b>						<b>Trulite Glass &amp; Aluminum Solutions Canada, ULC ; Bois-des-Filion, Quebec</b>					
5221	COMPOSITE	*	12.0 TTG (MC)(3)		U A	6061	COMP+CAN	3/16	5.0 TTG		U A
6044	COMPOSITE	(H)	12 LTG (b)(A)	(.060)	U A	6062	COMP+CAN	1/4	6.0 TTG		U A
5223	COMPOSITE	(H)	16+ LTG (ip)(A)	(.060)	U A	6063	COMP+CAN	5/16	8.0 TTG		U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Trulite Glass and Aluminum Solutions ; Aurora, CO</b>					<b>Trulite Glass and Aluminum Solutions ; Fort Worth, TX</b>				
5341	COMPOSITE	1/8	3.0 TTG	U A	5397	COMPOSITE	5/32	4.0 TTG	U A
5348	COMPOSITE	5/32	4.0 TTG	U A	5398	COMPOSITE	3/16	5.0 TTG (MC)	U A
6613	COMPOSITE	3/16	5.0 TTG (MC)	U A	5399	COMPOSITE	1/4	6.0 TTG (MC)	U A
5343	COMPOSITE	1/4	6.0 TTG (MC)	U A	5400	COMPOSITE	3/8	10.0 TTG	U A
5344	COMPOSITE	3/8	10.0 TTG	U A	5401	COMPOSITE	1/2	12.0 TTG	U A
5345	COMPOSITE	1/2	12.0 TTG	U A	6389	COMPOSITE	5/8	16.0 TTG	U A
5346	COMPOSITE	3/4	19.0 TTG	U A	6388	COMPOSITE	3/4	19.0 TTG	U A
5349	COMPOSITE	3/16	5.0 TPG (m)	U A	5404	COMPOSITE	3/16	5.0 TPG (m)	U A
5350	COMPOSITE	3/8	10.0 TPG (s)	U A	5405	COMPOSITE	3/8	10.0 TPG (m)	U A
<b>Trulite Glass and Aluminum Solutions ; Bradenton, FL</b>					<b>Trulite Glass and Aluminum Solutions ; Grenada, MS</b>				
5860	COMPOSITE	3/16	5.0 TTG	U A	3603	COMPOSITE	(S)	6 LTG (b)(A)	(.030) U A
4225	COMPOSITE	1/4	6.0 TTG	U A	5783	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030) U A
4226	COMPOSITE	3/8	10.0 TTG	U A	5728	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.035) U A
4227	COMPOSITE	1/2	12.0 TTG	U A	<b>Trulite Glass and Aluminum Solutions ; Houston, TX</b>				
7998	COMPOSITE	5/8	16.0 TTG	U A	2787	COMPOSITE	1/8	3.0 TTG (MC)	U A
7999	COMPOSITE	3/4	19.0 TTG	U A	2788	COMPOSITE	3/16	5.0 TTG	U A
6189	COMPOSITE	3/16	5.0 TPG (d)	U A	2789	COMPOSITE	1/4	6.0 TTG	U A
6190	COMPOSITE	3/8	10.0 TPG (s)	U A	2840	COMPOSITE	3/8	10.0 TTG	U A
<b>Trulite Glass and Aluminum Solutions ; Cheswick, PA</b>					<b>Trulite Glass and Aluminum Solutions ; Indianapolis, IN</b>				
1785	COMPOSITE	3/16	5.0 TTG	U A	6769	COMPOSITE	(S)	5 LTG (b)(A)	(.030) U A
1786	COMPOSITE	1/4	6.0 TTG (MC)	U A	6615	COMPOSITE	(H)	8 LTG (b)(A)	(.060) U A
8576	COMPOSITE	5/16	8.0 TTG	U A	4744	COMPOSITE	(H)	10-16+ LTG (b)(A)	(.030) U A
1787	COMPOSITE	3/8	10.0 TTG	U A	5898	COMPOSITE	(H)	10-12 LTG (ip)(A)	(.035) U A
1788	COMPOSITE	1/2	12.0 TTG	U A	<b>Trulite Glass and Aluminum Solutions ; Columbus, OH</b>				
4134	COMPOSITE	5/8	16.0 TTG	U A	4745	COMPOSITE	1/8	3.0 TTG	U A
4135	COMPOSITE	3/4	19.0 TTG	U A	8362	COMPOSITE	5/32	4.0 TTG	U A
1790	COMPOSITE	3/16	5.0 TPG (s)	U A	4746	COMPOSITE	3/16	5.0 TTG	U A
4453	COMPOSITE	3/8	10.0 TPG (s)	U A	4747	COMPOSITE	1/4	6.0 TTG	U A
<b>Trulite Glass and Aluminum Solutions ; City of Industry, CA</b>					<b>Trulite Glass and Aluminum Solutions ; Knoxville, TN</b>				
4184	COMPOSITE	3/16	5.0 TTG (MC)	U A	4209	COMPOSITE	1/8	3.0 TTG	U A
4185	COMPOSITE	1/4	6.0 TTG (MC)	U A	4827	COMPOSITE	5/32	4.0 TTG	U A
4186	COMPOSITE	3/8	10.0 TTG	U A	4152	COMPOSITE	3/16	5.0 TTG (MC)	U A
4187	COMPOSITE	1/2	12.0 TTG (MC)	U A	4153	COMPOSITE	1/4	6.0 TTG (MC)	U A
4522	COMPOSITE	5/8	16.0 TTG	U A	4158	COMPOSITE	3/8	10.0 TTG	U A
4371	COMPOSITE	3/4	19.0 TTG	U A	4159	COMPOSITE	1/2	12.0 TTG	U A
4233	COMPOSITE	(S)	6 LTG (b)(A)	(.030) U A	4207	COMPOSITE	1/8	3.0 TPG (m)	U A
6010	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030) U A	4981	COMPOSITE	5/32	4.0 TPG (m)	U A
6011	COMPOSITE	(H)	10-16+ LTG (ip)(A)	(.060) U A	4160	COMPOSITE	3/16	5.0 TPG (m)	U A
<b>Trulite Glass and Aluminum Solutions ; Columbus, OH</b>					<b>Trulite Glass and Aluminum Solutions ; Knoxville, TN</b>				
4745	COMPOSITE	1/8	3.0 TTG	U A	5134	COMPOSITE	3/8	10.0 TPG (s)	U A
8362	COMPOSITE	5/32	4.0 TTG	U A					
4746	COMPOSITE	3/16	5.0 TTG	U A					
4747	COMPOSITE	1/4	6.0 TTG	U A					
8191	COMPOSITE	5/16	8.0 TTG	U A					
6159	COMPOSITE	3/8	10.0 TTG	U A					
4748	COMPOSITE	1/2	12.0 TTG	U A					
6165	COMPOSITE	1/8	3.0 TPG (m)	U A					
6166	COMPOSITE	5/32	4.0 TPG (d)	U A					
6167	COMPOSITE	3/16	5.0 TPG (m)	U A					
6168	COMPOSITE	1/4	6.0 TPG (m)	U A					
6169	COMPOSITE	3/8	10.0 TPG (s)	U A					
7460	COMPOSITE	(S)	6 LTG (ip)(A)	(.035) U A					
7459	COMPOSITE	(S)	6 LTG (b)(A)	(.030) U A					
7461	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030) U A					
7525	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.035) U A					

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Trulite Glass and Aluminum Solutions ; Las Vegas, NV</b>						<b>Trulite Glass and Aluminum Solutions ; Phoenix, AZ</b>					
4210	COMPOSITE	1/8	3.0 TTG (MC)		U A	5701	COMPOSITE	5/32	4.0 TTG		U A
4212	COMPOSITE	3/16	5.0 TTG (MC)		U A	5702	COMPOSITE	3/16	5.0 TTG (MC)		U A
4213	COMPOSITE	1/4	6.0 TTG (MC)		U A	5746	COMPOSITE	1/4	6.0 TTG (MC)		U A
4214	COMPOSITE	3/8	10.0 TTG		U A	5703	COMPOSITE	3/8	10.0 TTG		U A
4215	COMPOSITE	1/2	12.0 TTG		U A	5704	COMPOSITE	1/2	12.0 TTG		U A
4217	COMPOSITE	1/8	3.0 TPG (s)		U A	7878	COMPOSITE	5/32	4.0 TPG (d)		U A
4219	COMPOSITE	3/16	5.0 TPG (m)		U A	5706	COMPOSITE	3/16	5.0 TPG (m)		U A
4220	COMPOSITE	1/4	6.0 TPG (s)		U A	6759	COMPOSITE	1/4	6.0 TPG (s)		U A
4221	COMPOSITE	3/8	10.0 TPG (s)		U A	5747	COMPOSITE	3/8	10.0 TPG (s)		U A
<b>Trulite Glass and Aluminum Solutions ; Lithia Springs, GA</b>						<b>Trulite Glass and Aluminum Solutions ; Salt Lake City, UT</b>					
6102	COMP+CAN	3/16	5.0 TTG		U A	6447	COMPOSITE	1/8	3.0 TTG (MC)		U A
6103	COMP+CAN	1/4	6.0 TTG (MC)		U A	5337	COMPOSITE	3/16	5.0 TTG (MC)		U A
6104	COMP+CAN	3/8	10.0 TTG		U A	5338	COMPOSITE	1/4	6.0 TTG (MC)		U A
6105	COMP+CAN	1/2	12.0 TTG		U A	5339	COMPOSITE	3/8	10.0 TTG		U A
6106	COMP+CAN	5/8	16.0 TTG		U A	5340	COMPOSITE	1/2	12.0 TTG		U A
6107	COMP+CAN	3/4	19.0 TTG		U A	7580	COMPOSITE	5/8	16.0 TTG		U A
6113	COMP+CAN	3/16	5.0 TPG (m)		U A	6006	COMPOSITE	3/16	5.0 TPG (m)		U A
6114	COMP+CAN	1/4	6.0 TPG (m)(IN)		U A	6007	COMPOSITE	1/4	6.0 TPG (m)		U A
6115	COMP+CAN	3/8	10.0 TPG (s)		U A	6008	COMPOSITE	3/8	10.0 TPG (s)		U A
6108	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	<b>Trulite Glass and Aluminum Solutions ; Tulsa, OK</b>					
6110	COMP+CAN	(S)	6 LTG (ip)(A)(IN)	(.060)	U A	5687	COMPOSITE	1/8	3.0 TTG (MC)		U A
7563	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	5443	COMPOSITE	5/32	4.0 TTG (MC)		U A
7564	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.060)	U A	5444	COMPOSITE	3/16	5.0 TTG (MC)		U A
<b>Trulite Glass and Aluminum Solutions ; New Berlin, WI</b>						5445	COMPOSITE	1/4	6.0 TTG (MC)		U A
5876	COMPOSITE	1/8	3.0 TTG		U A	5446	COMPOSITE	3/8	10.0 TTG		U A
5318	COMPOSITE	3/16	5.0 TTG (MC)		U A	5447	COMPOSITE	1/2	12.0 TTG		U A
5877	COMPOSITE	1/4	6.0 TTG (MC)		U A	5688	COMPOSITE	1/8	3.0 TPG (s)		U A
5320	COMPOSITE	5/16	8.0 TTG		U A	5448	COMPOSITE	5/32	4.0 TPG (d)		U A
5321	COMPOSITE	3/8	10.0 TTG		U A	5449	COMPOSITE	3/16	5.0 TPG (m)		U A
5322	COMPOSITE	1/2	12.0 TTG		U A	5451	COMPOSITE	3/8	10.0 TPG (s)		U A
5896	COMPOSITE	5/8	16.0 TTG		U A	<b>Trulite Glass and Aluminum Solutions ; Woodbridge, Ontario</b>					
5897	COMPOSITE	3/4	19.0 TTG		U A	5507	COMP+CAN	5/32	4.0 TTG (MC)		U A
3430	COMPOSITE	(S)	6 LTG (b)(A)	(.030)	U A	5508	COMP+CAN	3/16	5.0 TTG (MC)		U A
5936	COMPOSITE	(H)	8-12 LTG (b)(A)	(.030)	U A	5509	COMP+CAN	1/4	6.0 TTG (MC)		U A
5937	COMPOSITE	(H)	8-16+ LTG (ip)(A) (IN)	(.060)	U A	5510	COMP+CAN	5/16	8.0 TTG (MC)		U A
<b>Trulite Glass and Aluminum Solutions ; Orlando, FL</b>						5511	COMP+CAN	3/8	10.0 TTG		U A
5183	COMPOSITE	1/8	3.0 TTG		U A	5782	COMP+CAN	1/2	12.0 TTG		U A
5185	COMPOSITE	3/16	5.0 TTG		U A	5631	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
5184	COMPOSITE	1/4	6.0 TTG		U A	7290	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
5186	COMPOSITE	3/8	10.0 TTG		U A	<b>Trulite Glass and Aluminum Solutions ; Youngsville, NC</b>					
5187	COMPOSITE	1/2	12.0 TTG		U A	5517	COMPOSITE	5/32	4.0 TTG		U A
5680	COMPOSITE	5/8	16.0 TTG		U A	5273	COMPOSITE	3/16	5.0 TTG (MC)		U A
5189	COMPOSITE	1/8	3.0 TPG (s)		U A	5274	COMPOSITE	1/4	6.0 TTG (MC)		U A
5190	COMPOSITE	3/16	5.0 TPG (m)		U A	5518	COMPOSITE	5/16	8.0 TTG		U A
5191	COMPOSITE	1/4	6.0 TPG (m)		U A	5275	COMPOSITE	3/8	10.0 TTG		U A
5192	COMPOSITE	3/8	10.0 TPG (s)		U A	5276	COMPOSITE	1/2	12.0 TTG		U A
5484	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030)	U A	6009	COMPOSITE	5/8	16.0 TTG		U A
5485	COMPOSITE	(H)	10-12 LTG (ip)(A)	(.060)	U A	5277	COMPOSITE	3/4	19.0 TTG		U A
						5279	COMPOSITE	3/16	5.0 TPG (m)		U A
						8961	COMPOSITE	3/8	10.0 TPG (s)		U A
						7951	COMPOSITE	(S)	6 LTG (b)(A)	(.030)	U A
						7599	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030)	U A
						7705	COMPOSITE	(H)	10-16+ LTG (ip)(A)	(.060)	U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Turkiye Sise ve CamFabrikalar A.S. SisecamDuzcam Bursa FabrikaSubesi ; Yenisehir, Bursa</b>						<b>United Plate Glass of Maryland LLC ; Frederick, MD</b>					
8479	COMP+CAN	(S)	6 LTG (b)(A)	(.015)	U A	7889	COMP+CAN	3/16	5.0 TTG		U A
8193	COMP+CAN	(H)	8-12 LTG (b)(A)	(.015)	U A	7890	COMP+CAN	1/4	6.0 TTG		U A
<b>Tvitec System Glass ; Cubillo del Sil, Spain</b>						<b>Unitex Glass Chengdu Co., Ltd ; Chengdu, Sichuan</b>					
7370	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030)	U A	5462	COMP+CAN	1/8	3.0 TTG		U A
7573	COMP+CAN	(H)	10 LTG (b)(A)	(.060)	U A	5463	COMP+CAN	5/32	4.0 TTG		U A
5519	COMP+CAN	(H)	12, 16+ LTG (ip)(A)	(.035)	U A	5407	COMP+CAN	3/16	5.0 TTG		U A
<b>Tweddells Inc. ; Santa Ana, CA</b>						<b>Upstate Glass Tempering Inc. ; Middletown, NY</b>					
5384	COMP+CAN	1/8	3.0 TTG		U A	5408	COMP+CAN	1/4	6.0 TTG		U A
4993	COMP+CAN	3/16	5.0 TTG (MC)		U A	6519	COMP+CAN	5/16	8.0 TTG		U A
5385	COMP+CAN	1/4	6.0 TTG		U A	5414	COMP+CAN	3/8	10.0 TTG		U A
5386	COMP+CAN	3/8	10.0 TTG		U A	6520	COMP+CAN	1/2	12.0 TTG		U A
<b>U.S. Glass Distributors Inc. ; Enfield, CT</b>						<b>US Glass Tempering Inc. ; San Leandro, CA</b>					
5921	COMP+CAN	1/8	3.0 TTG		U A	7156	COMPOSITE	1/8	3.0 TTG		U A
5922	COMP+CAN	3/16	5.0 TTG (MC)		U A	7159	COMPOSITE	3/16	5.0 TTG		U A
5923	COMP+CAN	1/4	6.0 TTG (MC)		U A	7157	COMPOSITE	1/4	6.0 TTG		U A
5924	COMP+CAN	5/16	8.0 TTG		U A	7160	COMPOSITE	3/8	10.0 TTG		U A
5925	COMP+CAN	3/8	10.0 TTG		U A	7161	COMPOSITE	1/2	12.0 TTG		U A
5926	COMP+CAN	1/2	12.0 TTG		U A	7996	COMPOSITE	3/8	10.0 TPG (s)		U A
5927	COMP+CAN	5/8	16.0 TTG		U A	<b>VA Glass, LLC. ; Ridgeway, VA</b>					
6157	COMP+CAN	3/4	19.0 TTG		U A	12	COMPOSITE	3/16	5.0 TTG (IN)		U A
5917	COMP+CAN	5/32	4.0 TPG (d)		U A	14	COMPOSITE	1/4	6.0 TTG		U A
5918	COMP+CAN	3/16	5.0 TPG (m)		U A	8116	COMPOSITE	5/16	8.0 TTG		U A
5920	COMP+CAN	3/8	10.0 TPG (s)(IN)		U A	93	COMPOSITE	3/8	10.0 TTG		U A
7619	COMP+CAN	(S)	6 LTG (ip)(A)	(.035)	U A	94	COMPOSITE	1/2	12.0 TTG		U A
6864	COMP+CAN	(H)	10,16+ LTG (ip)(A)	(.035)	U A	2182	COMPOSITE	5/8	16.0 TTG		U A
<b>Uniglass ; Riyadh, Saudi Arabia</b>						<b>Valentini Glass &amp; Components srl ; Calcinato, Province of Brescia</b>					
8404	COMP+CAN	1/4	6.0 TTG		U A	2423	COMPOSITE	5/32	4.0 TTG (MC)		U A
7030	COMPOSITE	5/16	8.0 TTG		U A	7825	COMPOSITE	3/16	5.0 TTG (MC)		U A
7031	COMPOSITE	3/8	10.0 TTG		U A	6816	COMPOSITE	*	12.0 TTG (3)		U A
7032	COMPOSITE	*	12.0 TTG (7)		U A	4246	COMPOSITE	5/32	4.0 TBG (MC)		U A
8405	COMP+CAN	(H)	12 LTG (b)(A)	(.030)	U A	7826	COMPOSITE	3/16	5.0 TBG (MC)		U A
<b>United Plate Glass Co., Inc. ; Butler, PA</b>						<b>Vandaglas Eckelt GmbH ; Steyr, Austria</b>					
2467	COMP+CAN	1/8	3.0 TTG (MC)		U A	2850	COMPOSITE	1/4	6.0 TTG		U A
2468	COMP+CAN	3/16	5.0 TTG (MC)		U A	2851	COMPOSITE	5/16	8.0 TTG		U A
2469	COMP+CAN	1/4	6.0 TTG (MC)		U A	2852	COMPOSITE	3/8	10.0 TTG		U A
2470	COMP+CAN	3/8	10.0 TTG		U A	2853	COMPOSITE	*	12.0 TTG (4)		U A
2471	COMP+CAN	1/2	12.0 TTG		U A	2854	COMPOSITE	*	15.0 TTG (4)		U A
6375	COMP+CAN	5/32	4.0 TPG (m)		U A	2855	COMPOSITE	3/4	19.0 TTG		U A
6250	COMP+CAN	(S)	6 LTG (ip)(A)	(.035)	U A	6825	COMPOSITE	(H)	8,12-16+ LTG (b)(A)	(.030)	U A
6224	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A	6901	COMPOSITE	(H)	10-16+ LTG (ip)(A)	(.060)	U A
6251	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035)	U A	<b>United Plate Glass Company of Charlotte ; Lincolnton, NC</b>					
6225	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A	3948	COMP+CAN	1/8	3.0 TTG (MC)		U A
<b>United Plate Glass Company of Charlotte ; Lincolnton, NC</b>						<b>Vandaglas Eckelt GmbH ; Steyr, Austria</b>					
3948	COMP+CAN	1/8	3.0 TTG (MC)		U A	2850	COMPOSITE	1/4	6.0 TTG		U A
4197	COMPOSITE	5/32	4.0 TTG		U A	2851	COMPOSITE	5/16	8.0 TTG		U A
3949	COMP+CAN	3/16	5.0 TTG (MC)		U A	2852	COMPOSITE	3/8	10.0 TTG		U A
3950	COMP+CAN	1/4	6.0 TTG (MC)		U A	2853	COMPOSITE	*	12.0 TTG (4)		U A
3951	COMP+CAN	3/8	10.0 TTG		U A	2854	COMPOSITE	*	15.0 TTG (4)		U A
3952	COMP+CAN	1/2	12.0 TTG (MC)		U A	2855	COMPOSITE	3/4	19.0 TTG		U A
3954	COMP+CAN	1/8	3.0 TPG (s)		U A	6825	COMPOSITE	(H)	8,12-16+ LTG (b)(A)	(.030)	U A
4636	COMPOSITE	5/32	4.0 TPG (m)		U A	6901	COMPOSITE	(H)	10-16+ LTG (ip)(A)	(.060)	U A
3955	COMP+CAN	3/16	5.0 TPG (s)		U A						

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Verterria F. Illi Paci S.R.L. ; Seregno, Province of Monza and Brianza</b>						<b>Viewrail ; Goshen, IN Eisenhower Dr. South</b>					
8105	COMPOSITE	1/4	6.0 TTG		U A	8423	COMP+CAN	(H)	12-16+ LTG (ip)(A)	(.035)	U A
7855	COMPOSITE	5/16	8.0 TTG		U A	<b>Viracon Inc. ; Owatonna, MN</b>					
7856	COMPOSITE	3/8	10.0 TTG		U A	4354	COMP+CAN	5/32	4.0 TTG (MC)		U A
7857	COMPOSITE	1/2	12.0 TTG		U A	1403	COMP+CAN	3/16	5.0 TTG (MC)		U A
7854	COMPOSITE	(H)	10-12 LTG (ev)(A)	(.030)	U A	1404	COMP+CAN	1/4	6.0 TTG (MC)		U A
<b>Vetriko S.A. ; Duran, Guayas</b>						3689	COMP+CAN	5/16	8.0 TTG (MC)		U A
8769	COMPOSITE	1/4	6.0 TTG		U A	1508	COMP+CAN	3/8	10.0 TTG (MC)		U A
8770	COMPOSITE	5/16	8.0 TTG		U A	1509	COMP+CAN	1/2	12.0 TTG (MC)		U A
8771	COMPOSITE	3/8	10.0 TTG		U A	1637	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
8974	COMPOSITE	(S)	6 LTG (b)(A)	(.015)	U A	4250	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.060)	U A
8772	COMPOSITE	(S)	6 LTG (ev)(A)	(.015)	U A	4249	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
8773	COMPOSITE	(H)	8-12 LTG (ev)(A)	(.015)	U A	8403	COMP+CAN	(H)	12-16+ LSP (b)(A)	(.060X2 EC)	U A
8975	COMPOSITE	(H)	8-12 LTG (b)(A)	(.015)	U A	<b>Vision En Cristal Y Aluminio SA DE CV ; Nuevo Leon, Mexico</b>					
<b>Vetrodomus SpA ; Brescia, Province of Brescia</b>						8692	COMP+CAN	5/32	4.0 TTG (MC)		U A
7492	COMPOSITE	1/4	6.0 TTG (MC)		U A	8693	COMP+CAN	1/4	6.0 TTG (MC)		U A
7493	COMPOSITE	5/16	8.0 TTG (MC)		U A	8694	COMP+CAN	3/8	10.0 TTG		U A
7494	COMPOSITE	3/8	10.0 TTG (MC)		U A	<b>Vista Glass Corporation ; Vaughan, Ontario</b>					
7495	COMPOSITE	(H)	8-10 LTG (b)(A)	(.030)	U A	8444	COMP+CAN	3/16	5.0 TTG		U A
<b>V-Glass LLC DBA: Creative Glass Processing (CGP) ; Lehigh Acres, FL</b>						8445	COMP+CAN	1/4	6.0 TTG (MC)		U A
8724	COMPOSITE	1/4	6.0 TTG		U A	8446	COMP+CAN	5/16	8.0 TTG		U A
8725	COMPOSITE	5/16	8.0 TTG		U A	8447	COMP+CAN	3/8	10.0 TTG		U A
8726	COMPOSITE	3/8	10.0 TTG		U A	8448	COMP+CAN	1/2	12.0 TTG		U A
8727	COMPOSITE	1/2	12.0 TTG		U A	<b>Vistamatic, LLC ; Coral Springs, FL</b>					
<b>Vidplex Universal S.A.S ; Bogota, Bogota DC</b>						6535	COMPOSITE	5/32	4.0 TTG		U A
8994	COMPOSITE	3/16	5.0 TTG		U A	6536	COMPOSITE	3/16	5.0 TTG		U A
8995	COMPOSITE	1/4	6.0 TTG (MC)		U A	6537	COMPOSITE	1/4	6.0 TTG		U A
8996	COMPOSITE	3/8	10.0 TTG		U A	6538	COMPOSITE	3/8	10.0 TTG		U A
8997	COMPOSITE	(H)	8-10 LTG (b)(A)	(.015)	U A	6539	COMPOSITE	1/2	12.0 TTG		U A
<b>Vidrio Bisel S.A. de C.V. (Santa Catarina) ; Monterrey, Nuevo Leon</b>						8857	COMPOSITE	(S)	6 LTG (ev)(HS)	(.060)	U A
4966	COMP+CAN	1/4	6.0 TTG		U A	8858	COMPOSITE	(H)	10-12 LTG (ev)(HS)	(.060)	U A
4967	COMP+CAN	3/8	10.0 TTG		U A	8859	COMPOSITE	(H)	12 LTG (b)(HS)	(.090)	U A
<b>Vidrio Plano De Mexico S.A. DE C.V. ; Garcia Nuevo Leon, Nuevo Leon</b>						<b>Vitelsa Mosquera ; Bogota, Cundinamarca</b>					
7735	COMP+CAN	1/8	3.0 TTG (MC)		U A	7719	COMPOSITE	3/8	10.0 TTG		U A
8381	COMP+CAN	5/32	4.0 TTG		U A	7401	COMPOSITE	1/2	12.0 TTG		U A
8382	COMP+CAN	3/16	5.0 TTG		U A	6865	COMPOSITE	(H)	8-12 LTG (b)(A)	(.030)	U A
8383	COMP+CAN	1/4	6.0 TTG (MC)		U A	6866	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.035)	U A
<b>View Inc. ; Olive Branch, MS</b>						<b>Vitemex ; Reynosa, Tamaulipas</b>					
4725	COMPOSITE	1/8	3.0 TTG		U A	5393	COMP+CAN	1/4	6.0 TTG		U A
4726	COMPOSITE	5/32	4.0 TTG		U A	5394	COMP+CAN	3/8	10.0 TTG		U A
7961	COMPOSITE	3/16	5.0 TTG		U A	5395	COMP+CAN	1/2	12.0 TTG		U A
4728	COMPOSITE	1/4	6.0 TTG (MC)		U A	<b>Vitalum Glass Solutions Inc. ; Altamonte Springs, FL</b>					
7107	COMPOSITE	5/16	8.0 TTG (MC)		U A	7853	COMPOSITE	3/8	10.0 TTG		U A
7108	COMPOSITE	3/8	10.0 TTG (MC)		U A	8107	COMPOSITE	1/2	12.0 TTG		U A
6390	COMPOSITE	(S)	6 LTG (b)(A)	(.030)	U A	<b>Vitre-Art C.A.B. (1988) Inc. ; Montreal Nord, Quebec</b>					
7711	COMPOSITE	(H)	8 LTG (b)(A)	(.030)	U A	9065	COMP+CAN	1/8	3.0 TTG		U A
8217	COMPOSITE	(H)	8 LTG (ip)(A)	(.060)	U A	9066	COMP+CAN	5/32	4.0 TTG		U A
<b>Viewrail ; Goshen, IN Ardmore Court</b>						9067	COMP+CAN	3/16	5.0 TTG		U A
8422	COMP+CAN	3/8	10.0 TTG		U A	<b>Vitro Architectural Glass ; Barrie, Ontario</b>					
7607	COMP+CAN	1/2	12.0 TTG		U A	5207	COMP+CAN	1/8	3.0 TTG		U A
						5204	COMP+CAN	5/32	4.0 TTG		U A
						5205	COMP+CAN	3/16	5.0 TTG		U A
						5206	COMP+CAN	1/4	6.0 TTG		U A
						7083	COMP+CAN	5/32	4.0 TPG (m)		U A

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS		SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)		
<b>Vitro Flat Glass, LLC ; Carlisle, PA</b>						<b>W.C.P., Inc dba West Coast Insulated Glass Products ; Cerritos, CA</b>				
250	COMP+CAN	1/8	3.0 TTG (MC)	U A		6084	COMP+CAN	1/8	3.0 TTG (MC)	U A
675	COMP+CAN	5/32	4.0 TTG (MC)	U A		6085	COMP+CAN	5/32	4.0 TTG (MC)	U A
249	COMP+CAN	3/16	5.0 TTG (MC)	U A		6086	COMP+CAN	3/16	5.0 TTG (MC)	U A
382	COMP+CAN	1/4	6.0 TTG (MC)	U A		6087	COMP+CAN	1/4	6.0 TTG (MC)	U A
<b>Vitro Flat Glass, LLC ; Wichita Falls, TX</b>						8181	COMP+CAN	5/16	8.0 TTG (MC)	U A
1110	COMP+CAN	1/8	3.0 TTG	U A		7075	COMP+CAN	3/8	10.0 TTG (MC)	U A
1111	COMP+CAN	5/32	4.0 TTG	U A		7076	COMP+CAN	1/2	12.0 TTG	U A
1112	COMP+CAN	3/16	5.0 TTG	U A		6088	COMP+CAN	1/8	3.0 TPG (s)	U A
1113	COMP+CAN	1/4	6.0 TTG	U A		6089	COMP+CAN	5/32	4.0 TPG (m)	U A
3577	COMP+CAN	5/16	8.0 TTG	U A		6090	COMP+CAN	3/16	5.0 TPG (d)	U A
3578	COMP+CAN	3/8	10.0 TTG	U A		8014	COMP+CAN	(S)	6 LTG (ip)(A)	(.035) U A
<b>Vitrum Industries Ltd. ; Langley, British Columbia</b>						6091	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A
7723	COMP+CAN	1/8	3.0 TTG (MC)	U A		7077	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035) U A
7118	COMP+CAN	5/32	4.0 TTG (MC)	U A		6092	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A
7119	COMP+CAN	3/16	5.0 TTG (MC)	U A		<b>Washington Glass Fabrication LLC. ; Manassas, VA</b>				
7117	COMP+CAN	1/4	6.0 TTG (MC)	U A		8536	COMPOSITE	1/4	6.0 TTG	U A
7120	COMP+CAN	5/16	8.0 TTG (MC)	U A		8537	COMPOSITE	3/8	10.0 TTG	U A
8291	COMP+CAN	3/8	10.0 TTG (MC)	U A		8538	COMPOSITE	1/2	12.0 TTG	U A
7122	COMP+CAN	1/2	12.0 TTG	U A		<b>West Seal Ltd.(AWG Northern Dist.) ; Prince George, British Columbia</b>				
8292	COMP+CAN	5/8	16.0 TTG	U A		8689	COMP+CAN	5/32	4.0 TTG (MC)	U A
7381	COMP+CAN	3/4	19.0 TTG	U A		8690	COMP+CAN	3/16	5.0 TTG (MC)	U A
7720	COMP+CAN	1/8	3.0 TPG (s)	U A		8691	COMP+CAN	1/4	6.0 TTG (MC)	U A
7721	COMP+CAN	5/32	4.0 TPG (m)	U A		<b>Wexford Viking Glass Limited ; Wexford, Leinster</b>				
7722	COMP+CAN	3/16	5.0 TPG (m)	U A		8287	COMP+CAN	1/4	6.0 TTG	U A
7790	COMP+CAN	1/4	6.0 TPG (m)	U A		<b>Whalley Glass Co ; Derby, CT</b>				
8628	COMP+CAN	(S)	6 LTG (ip)(A)	(.035) U A		8808	COMPOSITE	1/8	3.0 TTG	U A
7871	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A		6227	COMPOSITE	3/16	5.0 TTG	U A
8955	COMP+CAN	(H)	8 LTG (b)(A)	(.030) U A		6228	COMPOSITE	1/4	6.0 TTG	U A
8956	COMP+CAN	(H)	8 LTG (ip)(A)	(.035) U A		<b>White Aluminum Enterprises LLC ; Abu Dhabi, United Arab Emirates</b>				
<b>Vitrum Industries Ltd. (Calgary) ; Rocky View County, Alberta</b>						7085	COMP+CAN	5/32	4.0 TTG (MC)	U A
7530	COMP+CAN	5/32	4.0 TTG	U A		4598	COMP+CAN	1/4	6.0 TTG (MC)	U A
7531	COMP+CAN	3/16	5.0 TTG	U A		4597	COMP+CAN	5/16	8.0 TTG (MC)	U A
7532	COMP+CAN	1/4	6.0 TTG	U A		7477	COMP+CAN	3/8	10.0 TTG (MC)	U A
7533	COMP+CAN	5/16	8.0 TTG	U A		7237	COMP+CAN	(H)	8-16+ LTG (ip)(T)	(.035) U A
7534	COMP+CAN	3/8	10.0 TTG	U A		7260	COMP+CAN	(H)	8-16+ LTG (b)(T)	(.030) U A
7535	COMP+CAN	1/2	12.0 TTG	U A		<b>Wholesale Glass Dist. ; Memphis, TN</b>				
8958	COMP+CAN	(S)	6 LTG (ip)(A)	(.035) U A		7703	COMPOSITE	1/8	3.0 TTG (MC)	U A
8957	COMP+CAN	(S)	6 LTG (b)(A)	(.030) U A		4379	COMPOSITE	3/16	5.0 TTG	U A
8959	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030) U A		4380	COMPOSITE	1/4	6.0 TTG (MC)	U A
8960	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035) U A		4381	COMPOSITE	3/8	10.0 TTG	U A
8284	COMP+CAN	(H)	12 LSP (b)(A)	(.030X2) U A		4382	COMPOSITE	1/2	12.0 TTG	U A
<b>Viwinco, Inc. ; Morgantown, PA</b>						<b>WHTB Glass, LLC ; Shirley, NY</b>				
3074	COMPOSITE	1/8	3.0 TTG (MC)	U A		7741	COMP+CAN	3/16	5.0 TTG (MC)	U A
3405	COMPOSITE	3/16	5.0 TTG (MC)	U A		7742	COMP+CAN	1/4	6.0 TTG (MC)	U A
6803	COMPOSITE	1/8	3.0 TPG (s)	U A		7743	COMP+CAN	5/16	8.0 TTG	U A
6374	COMPOSITE	(H)	8-12 LTG (ip)(A)	(.090) U A		7744	COMP+CAN	3/8	10.0 TTG	U A
3408	COMPOSITE	(H)	8 LTG (b)(A)	(.090) U A		7745	COMP+CAN	1/2	12.0 TTG	U A
<b>W. A. Wilson Inc. ; Wheeling, WV</b>						7747	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030) U A
4169	COMPOSITE	1/8	3.0 TTG	U A		8223	COMP+CAN	(H)	10 LTG (ip)(A)	(.035) U A
4170	COMPOSITE	3/16	5.0 TTG	U A						
4171	COMPOSITE	1/4	6.0 TTG (MC)	U A						
4172	COMPOSITE	3/8	10.0 TTG	U A						
4173	COMPOSITE	1/2	12.0 TTG	U A						
5173	COMPOSITE	1/8	3.0 TPG (d)	U A						

**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE CERTIFIED CLASS	ANSI CLASS
		(THICKNESS CLASS)						(THICKNESS CLASS)			
<b>Window Creations, LLC ; Fort Jennings, OH</b>						<b>WSD Glass, Inc. ; Winston-Salem, NC</b>					
8127	COMP+CAN	3/16	5.0 TTG		U A	4048	COMPOSITE	3/16	5.0 TTG		U A
8128	COMP+CAN	1/4	6.0 TTG		U A	4049	COMPOSITE	1/4	6.0 TTG		U A
8129	COMP+CAN	3/8	10.0 TTG		U A	4052	COMPOSITE	3/8	10.0 TTG		U A
8130	COMP+CAN	1/2	12.0 TTG (IN)		U A	4050	COMPOSITE	1/2	12.0 TTG		U A
<b>WinTech ; Monett, MO</b>						<b>Wujiang CSG Huadong Architectural Glass Co., LTD ; Suzhou, Jiangsu</b>					
6433	COMP+CAN	1/8	3.0 TTG (MC)		U A	6784	COMPOSITE	3/16	5.0 TTG		U A
6434	COMP+CAN	1/4	6.0 TTG (MC)		U A	6785	COMPOSITE	1/4	6.0 TTG		U A
<b>Wisconsin Shower Door &amp; Supply Corp ; Menomonee Falls, WI</b>						<b>Wutkowski Sp. Zo.o. ; Sliwice, Poland</b>					
5585	COMPOSITE	1/8	3.0 TTG (MC)		U A	6786	COMPOSITE	5/16	8.0 TTG		U A
5587	COMPOSITE	3/16	5.0 TTG (MC)		U A	6787	COMPOSITE	3/8	10.0 TTG		U A
5588	COMPOSITE	1/4	6.0 TTG		U A	6788	COMPOSITE	1/2	12.0 TTG		U A
5589	COMPOSITE	3/8	10.0 TTG		U A	6789	COMPOSITE	*	15.0 TTG (4)		U A
5590	COMPOSITE	1/2	12.0 TTG (MC)		U A	6790	COMPOSITE	(H)	10-16+ LTG (b)(A)	(.030)	U A
5592	COMPOSITE	1/8	3.0 TPG (s)		U A	<b>Xiamen Shiner Glass Co., Ltd. ; Xiamen, Fujian</b>					
5594	COMPOSITE	3/16	5.0 TPG (s)		U A	8869	COMP+CAN	(H)	8 LTG (b)(T)	(.030)	U A
5595	COMPOSITE	1/4	6.0 TPG (m)		U A	<b>Xianning CSG Energy Conservation Glass Co., LTD. ; Xianning, Hubei</b>					
5596	COMPOSITE	3/8	10.0 TPG (m)		U A	5979	COMP+CAN	3/16	5.0 TTG		U A
5597	COMPOSITE	1/2	12.0 TPG (m)		U A	6004	COMP+CAN	1/4	6.0 TTG		U A
<b>W-M Glass sp. zo.o. ; Bartoszyce, Poland</b>						<b>Xinyi Glass (Tianjin) Co. Ltd. ; Wuqing District, Tianjin</b>					
9016	COMP+CAN	(H)	10 LTG (ev)(A)	(.030)	U A	5980	COMP+CAN	3/8	10.0 TTG		U A
9017	COMP+CAN	(H)	10 LTG (b)(A)	(.030)	U A	5981	COMP+CAN	1/2	12.0 TTG		U A
<b>WMB Windows Inc. ; Ontario, CA</b>						<b>Xinyi Glass (Yingkou) Co., Ltd. ; Yingkou, Liaoning</b>					
8842	COMP+CAN	5/32	4.0 TTG (MC)		U A	6848	COMP+CAN	1/4	6.0 TTG (MC)		U A
8843	COMP+CAN	5/32	4.0 TPG (s)		U A	6849	COMP+CAN	5/16	8.0 TTG (MC)		U A
<b>Wolverine Glass Products, Inc. ; Wyoming, MI</b>						<b>Xinyi Glass (Yingkou) Co., Ltd. ; Yingkou, Liaoning</b>					
8036	COMP+CAN	1/8	3.0 TTG (MC)		U A	6850	COMP+CAN	3/8	10.0 TTG (MC)		U A
7981	COMP+CAN	5/32	4.0 TTG		U A	6851	COMP+CAN	1/2	12.0 TTG (MC)		U A
7982	COMP+CAN	3/16	5.0 TTG		U A	7373	COMP+CAN	(S)	6 LTG (b)(A)	(.015)	U B
8037	COMP+CAN	1/4	6.0 TTG (MC)		U A	6852	COMP+CAN	(S)	6 LTG (b)(A)	(.030)	U A
7983	COMP+CAN	5/16	8.0 TTG		U A	7841	COMP+CAN	(H)	8-12 LTG (b)(A)	(.015)	U B
7984	COMP+CAN	3/8	10.0 TTG		U A	7842	COMP+CAN	(H)	8-16+ LTG (ip)(A)	(.035)	U A
7985	COMP+CAN	1/2	12.0 TTG		U A	6853	COMP+CAN	(H)	8-16+ LTG (b)(A)	(.030)	U A
7986	COMP+CAN	1/8	3.0 TPG (m)		U A	<b>Woon-Tech Inc. ; Whitinsville, MA</b>					
7987	COMP+CAN	5/32	4.0 TPG (d)		U A	6364	COMP+CAN	1/8	3.0 TTG		U A
<b>Woodbridge Glass Distribution Inc. ; Concord, Ontario</b>						<b>Woon-Tech Inc. ; Whitinsville, MA</b>					
7896	COMP+CAN	1/8	3.0 TTG		U A	6365	COMP+CAN	5/32	4.0 TTG		U A
7897	COMP+CAN	5/32	4.0 TTG		U A	6366	COMP+CAN	3/16	5.0 TTG		U A
7898	COMP+CAN	3/16	5.0 TTG (MC)		U A	6367	COMP+CAN	1/4	6.0 TTG		U A
7899	COMP+CAN	1/4	6.0 TTG		U A	6368	COMP+CAN	3/8	10.0 TTG		U A
7900	COMP+CAN	5/16	8.0 TTG		U A	6369	COMP+CAN	1/2	12.0 TTG		U A
7901	COMP+CAN	3/8	10.0 TTG		U A	6370	COMP+CAN	5/8	16.0 TTG		U A
7902	COMP+CAN	1/2	12.0 TTG		U A	6371	COMP+CAN	3/4	19.0 TTG		U A
7903	COMP+CAN	5/32	4.0 TPG (m)		U A						
7904	COMP+CAN	3/16	5.0 TPG (s)		U A						
7905	COMP+CAN	3/8	10.0 TPG (s)		U A						



**Certified Products-Alphabetical By Plant**

SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS	SGCC#	TEST STD	INCHES (MM)	TYPE	MAX SIZE ANSI CERTIFIED CLASS
		(THICKNESS CLASS)					(THICKNESS CLASS)		
<b>Xinyi Group (Glass) Co., Ltd. ; Dongguan, Guangdong Province</b>					<b>Yitian (Cattis) Glass Product Co., Ltd ; Foshan, Guangdong Province</b>				
3085	COMP+CAN	3/16	5.0 TTG (MC)	U A	6453	COMP+CAN	1/4	6.0 TTG	U A
3053	COMP+CAN	1/4	6.0 TTG (MC)	U A	6454	COMP+CAN	5/16	8.0 TTG	U A
4648	COMP+CAN	5/16	8.0 TTG (MC)	U A	6455	COMP+CAN	3/8	10.0 TTG	U A
3054	COMP+CAN	3/8	10.0 TTG (MC)	U A	8528	COMP+CAN	*	12.0 TTG (3)	U A
3055	COMP+CAN	*	12.0 TTG (4)(MC)	U A	<b>Yong Feng Tai Foshan City Glass Co., LTD. ; Foshan, Guangdong Province</b>				
4179	COMP+CAN	*	15.0 TTG (4)(MC)	U A	6877	COMP+CAN	5/32	4.0 TTG	U A
3489	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030) U A	5890	COMP+CAN	3/16	5.0 TTG	U A
<b>Yakut Cam A.S ; Sancaktepe, Istanbul</b>					5891	COMP+CAN	1/4	6.0 TTG	U A
7957	COMP+CAN	1/4	6.0 TTG	U A	5892	COMP+CAN	5/16	8.0 TTG	U A
7958	COMP+CAN	5/16	8.0 TTG	U A	5893	COMP+CAN	3/8	10.0 TTG	U A
7959	COMP+CAN	3/8	10.0 TTG	U A	8789	COMP+CAN	1/2	12.0 TTG	U A
7960	COMP+CAN	1/2	12.0 TTG	U A	7066	COMP+CAN	3/16	5.0 TBG	U A
8092	COMP+CAN	(H)	10-16+ LTG (b)(HS)	(.030) U A	5894	COMP+CAN	1/4	6.0 TBG	U A
<b>Yantai Bluesky Glass Co., Ltd ; Yantai, Shandong</b>					6879	COMP+CAN	5/16	8.0 TBG	U A
8288	COMPOSITE	5/32	4.0 TTG	U A	<b>Yorglass Cam Sanayi Ve Ticaret A.S. ; Yunusemre, Manisa</b>				
8289	COMPOSITE	1/4	6.0 TTG	U A	8408	COMPOSITE	1/8	3.0 TTG	U A
8290	COMPOSITE	3/8	10.0 TTG	U A	8409	COMPOSITE	5/32	4.0 TTG	U A
<b>Yantai Dongfang Glass Co., Ltd ; Yantai, Shandong</b>					<b>Zhangjiagang City Daming Glass Product Co., Ltd ; Suzhou, Jiangsu</b>				
8234	COMP+CAN	3/16	5.0 TTG	U A	5465	COMP+CAN	3/8	10.0 TTG	U A
8235	COMP+CAN	1/4	6.0 TTG	U A	5466	COMP+CAN	1/2	12.0 TTG	U A
8236	COMP+CAN	3/8	10.0 TTG	U A	7048	COMP+CAN	(H)	8-10 LTG (ip)(A)	(.035) U A
<b>Yao Xiang Glass Product Co. Ltd. ; Foshan, Guangdong Province</b>					<b>Zhangjiagang Weiyu Fabricated Glassware Co. Ltd. ; Suzhou, Jiangsu</b>				
3736	COMP+CAN	5/32	4.0 TTG	U A	5737	COMP+CAN	1/8	3.0 TTG	U A
3737	COMP+CAN	3/16	5.0 TTG	U A	5738	COMP+CAN	5/32	4.0 TTG	U A
3738	COMP+CAN	1/4	6.0 TTG	U A	<b>Zhaoqing CSG Energy Conservation Glass Co., Ltd ; Zhaoqing, Guangdong Province</b>				
3739	COMP+CAN	5/16	8.0 TTG	U A	8563	COMP+CAN	1/4	6.0 TTG	U A
3740	COMP+CAN	3/8	10.0 TTG	U A	8564	COMP+CAN	5/16	8.0 TTG	U A
3741	COMP+CAN	*	12.0 TTG (3)	U A	8565	COMP+CAN	3/8	10.0 TTG	U A
3742	COMP+CAN	3/16	5.0 TBG	U A	8566	COMP+CAN	*	12.0 TTG (4)	U A
3743	COMP+CAN	1/4	6.0 TBG	U A	8567	COMP+CAN	(H)	10-16+ LTG (b)(A)	(.030) U A
<b>Yildiz Cam San. Tic. A.S. ; Kartepe, Kocaeli</b>					<b>Zhejiang Jincheng Glass Co., Ltd. ; Huzhou, Zhejiang</b>				
8677	COMPOSITE	1/4	6.0 TTG (MC)	U A	6676	COMP+CAN	1/8	3.0 TTG	U A
8678	COMPOSITE	5/16	8.0 TTG (MC)	U A	8209	COMP+CAN	5/32	4.0 TTG	U A
7923	COMPOSITE	3/8	10.0 TTG (MC)	U A	8205	COMP+CAN	5/32	4.0 TBG	U A
7924	COMPOSITE	1/2	12.0 TTG (3)	U A	8206	COMP+CAN	3/16	5.0 TBG	U A
8680	COMPOSITE	*	15.0 TTG (4)	U A	<b>Zhejiang Pusaisi Intelligent Glass Co., LTD ; Shaoxing City, Zhejiang</b>				
7925	COMPOSITE	(H)	8-16+ LTG (b)(A)	(.030) U A	8666	COMP+CAN	5/32	4.0 TTG	U A
8768	COMPOSITE	(H)	8-16+ LTG (ip)(A)	(.035) U A	8667	COMP+CAN	1/4	6.0 TTG	U A
<b>Yin Fu (Dong Guan) Glass Co., Ltd. ; Dongguan, Guangdong Province</b>					8668	COMP+CAN	3/8	10.0 TTG	U A
9018	COMP+CAN	*	3.0 TTG (3)	U A	8669	COMP+CAN	1/4	6.0 TPG (s)	U A
9019	COMP+CAN	5/32	4.0 TTG	U A	<b>Zhongli Glass Co., Ltd ; Huzhou, Zhejiang</b>				
9020	COMP+CAN	3/16	5.0 TTG	U A	8495	COMP+CAN	3/16	5.0 TTG	U A
9021	COMP+CAN	1/4	6.0 TTG	U A	8496	COMP+CAN	1/4	6.0 TTG	U A
9022	COMP+CAN	5/16	8.0 TTG	U A	8497	COMP+CAN	5/16	8.0 TTG	U A
9023	COMP+CAN	3/8	10.0 TTG	U A	8498	COMP+CAN	3/8	10.0 TTG	U A
9024	COMP+CAN	*	12.0 TTG (3)	U A	8499	COMP+CAN	(H)	10 LTG (b)(A)	(.030) U A
9025	COMP+CAN	5/32	4.0 TPG (m)	U A					
9026	COMP+CAN	1/4	6.0 TPG (s)	U A					
9027	COMP+CAN	3/16	5.0 TBG	U A					
9028	COMP+CAN	1/4	6.0 TBG	U A					
9029	COMP+CAN	5/16	8.0 TBG	U A					

*Certified Products-Alphabetical By Plant*

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

**Zhongshan Walle Glass Product Co., Ltd ; Zhongshan, Guangdong Province**

8142	COMPOSITE	1/4	6.0 TTG		U A
8143	COMPOSITE	5/16	8.0 TTG		U A
8144	COMPOSITE	3/8	10.0 TTG		U A

**Zhongshan Zhengde Glass Products Co., Ltd. ; Zhongshan City, Guangdong Province**

8998	COMP+CAN	5/16	8.0 TTG		U A
8999	COMP+CAN	3/8	10.0 TTG		U A

## 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
LSP	LAMINATED SPECIALTY PRODUCTS
OCG	ORGANIC COATED GLASS
OCH	ORGANIC COATED GLASS HYBRID
SPS	SAFETY PLASTIC SHEET
VIGT	VACUUM INSULATING GLASS TEMPERED
VIGL	VACUUM INSULATING GLASS LAMINATED
VITL	VACUUM INSULATING GLASS TEMPERED LAMINATED
CSSG	CHEMICALLY STRENGTHENED SAFETY GLASS

### 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
MC	METALIZED COATED
(2)	CONFORMS TO EN 572-7 THICKNESS TOLERANCES FOR BENT/CHANNEL GLASS
(3)	CONFORMS TO EN 572-2 THICKNESS TOLERANCES FOR TEMPERED GLASS
(4)	CONFORMS TO EN 12150 THICKNESS TOLERANCES FOR TEMPERED GLASS
(5)	CONFORMS TO EN 572-5 THICKNESS TOLERANCES FOR PATTERNED GLASS
(6)	INDOOR USE ONLY
(7)	CONFORMS TO JIS 3202:2011 THICKNESS TOLERANCES FOR TEMPERED GLASS
(c1)	CPSC CAT 1 ONLY
(*)	INDICATES EN STANDARD THICKNESS TOLERANCE

### 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
(CS)	CHEMICALLY STRENGTHENED
(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
(PRO)	PROPRIETARY (CONTACT SGCC MANUFACTURER)

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

S (Shallow)

M (Medium)

D (Deep)

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

\*Indicates EN Standard Thickness Tolerance

Pattern Name	Manufacturer	Thickness & Pattern Depth												
		inches	1/8	5/32	3/16	n/a	7/32	1/4	n/a	5/16	3/8	1/2	5/8	3/4
		mm	3	4	5	0.21	5.5	6	7	8	10	12	16	19
Abstracto	Saint Gobain		D											
Altdeutsch F	Saint Gobain		S											
Altdeutsch K	Saint Gobain		S											
Antique	Saint Gobain		S											
Aqua	AGC	S	S	S			S							
Aqualite	Qingdao Jinjing						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			S							
Austral*	Pilkington		D											
Autumn	Saint Gobain						S							
Autumn*	Pilkington		M				X							
Bamboo	AGC			D										
Bamboo	Guardian									S				
Bamboo	Shixing			M			S							
Bamboo	Kibing		D											
Bubble	Guardian	S	S	S		S	S			S				
Cascade	AGC				S	S								
Cast	Saint Gobain									S				
Chantilly*	Pilkington		S											
Charcoal Sticks*	Pilkington		S											
Chinchilla	AGC			S	S	S								
Citrus	AGC	S	S	S										
Contora*	Pilkington		S											
Cotswold*	Pilkington		M				X							
Cross Reeded	AGC		D				M							
Delta	AGC		D				M							
Digital*	Pilkington													
Esto	Guardian						M			M	M			
Estriado/SR Estr	Saint Gobain		M				M							
Etre	Guardian		S				S			S	S			
Everglade*	Pilkington		M				X							
Flax	AGC	M	M, S	S	S	S								
Flemish*	Pilkington		S				M							
Floralite	Guardian		M											
Florex	AGC	M	M											
Florielle*	Pilkington		S											
Fluted	Shandong Jinjing						D		M					
Fluted	Qingdao Jinjing						M							
Flutes	AGC		M	D			D							
Flutex	AGC			D						M				
Glacier	AGC	M	M	D			D			M				
Gluechip	Guardian	M	M	M		M	M			S				
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											

Pattern Name	Manufacturer	Thickness & Pattern Depth												
		inches	1/8	5/32	3/16	n/a	7/32	1/4	n/a	5/16	3/8	1/2	5/8	3/4
		mm	3	4	5	0.21	5.5	6	7	8	10	12	16	19
Listral D	Saint Gobain		M											
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											
Mistlite	Qingdao Jinjing		S	S			S							
Monumental M	Saint Gobain		D											
Monumental S	Saint Gobain		M											
Morisco*	Pilkington		M											
Niagara	Guardian	M	M	M		M	M			S	M			
Oak*	Pilkington		S											
Oceanic	Qingdao Jinjing		D											
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			M				
Pelrine*	Pilkington		S											
Pinhead	Taiwan Glass	S		S						S				
Pixels	AGC		M											
Rain	AGC	M	M	M			S		S	S				
Rattan*	Pilkington	M												
Rayado*	Pilkington			S										
Reed	Saint Gobain						M							
Reeded*	Pilkington		D	M			M							
Sahara	Saint Gobain		S											
Sateen	Skyline Design		S				S		S	S	S	S	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			D			M				
Thela	Saint Gobain		S				S	S						
Velvex	AGC	S	S	S	S	S								
Wired Listral	Saint Gobain						S							
Wired Waterdrop	Saint Gobain							M						
Waterdrop	Saint Gobain		M											
Yacare*	Pilkington		M											
Zefiro Weiss	Saint Gobain		M											

## SGCC LIST OF ACCEPTED INTERLAYERS (SD-099)

*In order for a laminated glass product to become or remain SGCC Certified, the interlayer used by the manufacturer must be on this list. All interlayers must have weathering test data on file. Outdoor use may be tested to ANSI Z97.1-2009 or 2015 and Indoor use only must be tested to ANSI Z97.1-2015 weathering data.*

*L.1 Certification to one brand within the generic category will allow switching to other brands within the generic category on the list (see Laminated Glass Equivalency - Table L1 for guidance with Change Categories, Equivalent/Not Equivalent Changes in accepted interlayers).*

*All interlayers must have weathering test data on file. Outdoor use may be tested to ANSI Z97.1-2009 or 2015 and Indoor use only must be tested to ANSI Z97.1-2015 weathering data. **All Indoor use only products must submit Indoor Use Only Weathering requirements to ANSI Z97.1-2015 by 12/31/2016 to maintain approval on this list. Interlayer suppliers not providing weathering data to SGCC by 12/31/16, will no longer be available for manufacturers to use in SGCC certified products. (7/1/16)***

Generic Code & Description						
(b) Polyvinyl Butyral	(lu) Liquid Resin - UV Cure	(f) Fluorinated Ethylene Propylene	(lc) Liquid Resin-Multi Component	(p) Polyethylene Terephthalate		(ev) Ethylene-Vinyl Acetate
(ip) Ionoplast	(el) Epoxy-Liquid Crystal Polymer	(u) Polyurethane	(su) Solid resin UV cure	(PRO) Proprietary		
Generic Code	Description	Supplier	Interlayer Brand	Interlayer Formulations	Min. Interlayer Thickness (in.)	Weathering Data on file
(b)	Polyvinyl Butyral	Eastman Chemical Company	Saflex IIIIG/Vanceva	Series A, C, D, F, H, M, N, P, R, S, W	(0.030)	✓
		Eastman Chemical Company	Saflex Specialty	Saflex Q, AG, DB/DS	(0.030)	✓
		Eastman Chemical Company	Saflex Composite	Saflex V, K series	(0.030)	✓
		Eastman Chemical Company	Saflex FlySafe 3D		(0.060)	✓
		Kuraray	Trosifol Clear & Decorative	Clear (B200&B500), UltraClear, XT UltraClear, HR (HR100), UV ExtraProtect (EP), Natural UV(NUV), BirdSecure Pro, Brilliant Colors/Tints	(0.015)	✓
		Kuraray	Trosifol Specialties	SentryGlas Expressions, Extra Stiff (B130), SC Monolayer (B100), Solar R40 (B900)	(0.030)	✓
		Chang Chun	Winlite		(0.015)	✓
		Sekisui S-Lec	Sekisui S-LEC Film & Sekisui S-LEC Acoustic Film		(0.030)	✓
		Everlam S.A.	EVERLAM™	NC 010, LAM52	(0.015)	✓
		Everlam N.V.	EVERLAM™ SUPER TOUGH	LAM72T		✓
		Kingboard (FO Gang) Specialty Resins Ltd.	Kingboard		(0.015)	✓
		Anhui Wanwei Bisheng Co., Ltd.	Bisn©		(0.030)	✓
		Zhejiang Decent New Material Co., Ltd.	Architectural PVB		(0.030)	✓
(u)	Polyurethane	SWM International	ArgoBond®	ST-6050	(0.050)	✓
(ip)	Ionoplast	Kuraray	Trosifol SentryGlas®, SentryGlas® BirdSecure Pro		(0.035)	✓
		Kuraray	Trosifol SentryGlas® Xtra™		(0.035)	✓
(lu)	Liquid Resin - UV Cure	Bestroom Co. Ltd.	UVLAM		(0.040)	✓
		H.B. Fuller- Kommerling	Kodilan GS-LED		(0.040)	✓
		ALLNEX	UVEKOL		(0.040)	✓
(ev)	Ethylene-Vinyl Acetate	Interlayer Solutions, inc.	EVALAYER		(0.015)	✓
		Folienwerk Wolfen GmbH	Evguard® - UV380, Polar White, Milky White		(0.015)	✓
		Hornos Industriales Pujol, S.A.	EVALAM Crystal		(0.015)	✓
		Hornos Industriales Pujol, S.A.	EVALAM Visual		(0.015)	✓
		RCN Solution SRL	REVA BF		(0.015)	✓
		IGE Supply Solutions, Inc.	Shenzhen Gaoren Electronic New Material Co.,Ltd - ASQ1X Extra Clear EVA Film		(0.015)	✓
		SWM International	ArgoBond®	SE-381TF	(0.030)	✓
		Satinal SPA	Strato		(0.015)	✓
		Shanghai HIUV New Materials Co., Ltd.	HIUV-PVE		(0.015)	✓

## SGCC LIST OF ACCEPTED INTERLAYERS (SD-099)

*In order for a laminated glass product to become or remain SGCC Certified, the interlayer used by the manufacturer must be on this list. All interlayers must have weathering test data on file. Outdoor use may be tested to ANSI Z97.1-2009 or 2015 and Indoor use only must be tested to ANSI Z97.1-2015 weathering data.*

*L.1 Certification to one brand within the generic category will allow switching to other brands within the generic category on the list (see Laminated Glass Equivalency - Table L1 for guidance with Change Categories, Equivalent/Not Equivalent Changes in accepted interlayers).*

*All interlayers must have weathering test data on file. Outdoor use may be tested to ANSI Z97.1-2009 or 2015 and Indoor use only must be tested to ANSI Z97.1-2015 weathering data. **All Indoor use only products must submit Indoor Use Only Weathering requirements to ANSI Z97.1-2015 by 12/31/2016 to maintain approval on this list. Interlayer suppliers not providing weathering data to SGCC by 12/31/16, will no longer be available for manufacturers to use in SGCC certified products. (7/1/16)***

Generic Code & Description						
<b>(b)</b> Polyvinyl Butyral	<b>(lu)</b> Liquid Resin - UV Cure	<b>(f)</b> Fluorinated Ethylene Propylene	<b>(lc)</b> Liquid Resin-Multi Component	<b>(p)</b> Polyethylene Terephthalate		<b>(ev)</b> Ethylene-Vinyl Acetate
<b>(ip)</b> Ionoplast	<b>(el)</b> Epoxy-Liquid Crystal Polymer	<b>(u)</b> Polyurethane	<b>(su)</b> Solid resin UV cure	<b>(PRO)</b> Proprietary		
Generic Code	Description	Supplier	Interlayer Brand	Interlayer Formulations	Min. Interlayer Thickness (in.)	Weathering Data on file
(ev)(p)	Ethylene-Vinyl Acetate / Polyethylene Terephthalate	Folienwerk Wolfen GmbH	Evguard®+ MPE		(.015)(.008)(.015)	✓
(el)(p)	Epoxy-Liquid Crystal Polymer / Polyethylene Terephthalate	Polytronix, Inc.	Polyvision Film		(0.075)	✓
(su)	Solid resin UV cure	Seeory Materials Corp	Seeory Interlayer		(0.030)	✓

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

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

California	Georgia
<p><b>125 - Architectural Testing Inc. (an Intertek Company)</b> Architectural Testing Inc. (an Intertek Company), 2524 East Jensen Ave.; Fresno, CA 93706 Attn: Kenny White, Mr. Joshua Lannum, Mr. Tyler Westerling, Ms. Marisela Saavedra, Ms. Shannon Stein Phone: (559) 233-8705 Fax: (559) 233-8360 Email: <a href="mailto:kenny.white@intertek.com">kenny.white@intertek.com</a>, <a href="mailto:joshua.lannum@intertek.com">joshua.lannum@intertek.com</a>, <a href="mailto:Tyler.Westerling@Intertek.com">Tyler.Westerling@Intertek.com</a>, <a href="mailto:Marisela.Saavedra@Intertek.com">Marisela.Saavedra@Intertek.com</a>, <a href="mailto:Shannon.Stein@Intertek.com">Shannon.Stein@Intertek.com</a></p>	<p><b>165 - Architectural Testing Inc. (an Intertek Company)</b> Architectural Testing Inc. (an Intertek Company), 1701 Westfork Dr., Suite 106; Lithia Springs, GA 30122 Attn: Mr. Brock, Austin Viness, Ms. Andrea Torrey Phone: (770) 941-6916 Fax: (770) 941-2930 Email: <a href="mailto:austin.viness@intertek.com">austin.viness@intertek.com</a>, <a href="mailto:andrea.torrey@intertek.com">andrea.torrey@intertek.com</a></p>
<p><b>250 - Construction Consulting Laboratory Inc.</b> Construction Consulting Laboratory Inc., Western Division, 4751 W State St Ste B; Ontario, CA 91762 Attn: Mr. Jack Jackson, Mr. Chad Jackson, Ms. Cheyenne Jackson Phone: (909) 591-1789 Fax: (909) 627-9020 Email: <a href="mailto:Jack@ccl-west.com">Jack@ccl-west.com</a>, <a href="mailto:chad@ccl-west.com">chad@ccl-west.com</a>, <a href="mailto:cheyenne@ccl-west.com">cheyenne@ccl-west.com</a></p>	<p><b>Iowa</b></p>
<p><b>75 - Blackwater Technical Services, Inc.</b> Blackwater Technical Services, Inc., 7341 Westport Place, Suite 1A; West Palm Beach, FL Attn: Mr. Michael Caldwell, Mr. Wyatt Sherman Phone: (561) 508-2830 Fax: (888) 704-4084 Email: <a href="mailto:mikecaldwell@blackwatertesting.com">mikecaldwell@blackwatertesting.com</a>, <a href="mailto:wsherman@blackwatertesting.com">wsherman@blackwatertesting.com</a></p>	<p><b>500 - Element Materials Technology Des Moines</b> Element Materials Technology Des Moines, 3922 Delaware Avenue; Des Moines, IA 50313 Attn: Austin Heiselman, Adam Scarlett, Brian Escherich, Ms. Amy Suedmeier Phone: (515) 266-5101 Fax: (505) 262-1910 Email: <a href="mailto:austin.heiselman@element.com">austin.heiselman@element.com</a>, <a href="mailto:adam.scarlett@element.com">adam.scarlett@element.com</a>, <a href="mailto:brian.escherich@element.com">brian.escherich@element.com</a> , <a href="mailto:amy.suedmeier@element.com">amy.suedmeier@element.com</a></p>
<p><b>Florida</b></p>	<p><b>Minnesota</b></p>
<p><b>285 - QAI Laboratories, Inc.</b> QAI Laboratories, Inc., 8148 NW 74th Avenue; Medley, FL 33166 Attn: Jose Sanchez, Mr. Luis Sanchez, Sarah Hernandez Phone: 1-305-885-3328 Fax: 1-305-885-3329 Email: <a href="mailto:jsanchez@qai.org">jsanchez@qai.org</a>, <a href="mailto:lsanchez@qai.org">lsanchez@qai.org</a>, <a href="mailto:shernandez@qai.org">shernandez@qai.org</a></p>	<p><b>150 - Architectural Testing Inc. (an Intertek Company)</b> Architectural Testing Inc. (an Intertek Company), 40 51st Way NE Suite 100; Fridley, MN Attn: Mr. Lukas Bayer, Mr. Eric Schoenthaler, Ms. Wendy Allison Phone: (651) 636-3835 Fax: (651) 636-3843 Email: <a href="mailto:lukas.bayer@intertek.com">lukas.bayer@intertek.com</a>, <a href="mailto:eric.schoenthaler@intertek.com">eric.schoenthaler@intertek.com</a>, <a href="mailto:Wendy.Allison@intertek.com">Wendy.Allison@intertek.com</a></p>
<p><b>850 - PRI Construction Materials Technologies</b> PRI Construction Materials Technologies, 6412 Badger Dr; Tampa, FL 33610 Attn: Mr. Brad Grzybowski, Tim Efaw Phone: 813-621-5777 Fax: 813-621-5840 Email: <a href="mailto:brad.grzybowski@pri-group.com">brad.grzybowski@pri-group.com</a>, <a href="mailto:tim.efaw@pri-group.com">tim.efaw@pri-group.com</a></p>	<p><b>New York</b></p>
	<p><b>400 - Intertek</b> Intertek, 75 Clinton Avenue; Cortland, NY 13045 Attn: Mr. Russell Mantey, Mr. Byron Horak, Mr. Ken Morgan, Ms. Pam Springer Phone: (607) 758-6673 Fax: (607) 758-6666 Email: <a href="mailto:russell.mantey@intertek.com">russell.mantey@intertek.com</a>, <a href="mailto:byron.horak@intertek.com">byron.horak@intertek.com</a>, <a href="mailto:ken.morgan@intertek.com">ken.morgan@intertek.com</a>, <a href="mailto:pam.springer@intertek.com">pam.springer@intertek.com</a></p>
	<p><b>Ohio</b></p>
	<p><b>200 - Bowser-Morner Inc.</b> Bowser-Morner Inc., 4518 Taylorsville Rd; Dayton, OH 45424 Attn: Vicki Appora Phone: (937) 236-8805 Fax: (937) 237-9947 Email: <a href="mailto:vappora@bowser-morner.com">vappora@bowser-morner.com</a></p>



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

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

Pennsylvania	Washington
<p><b>100 - Architectural Testing Inc. (an Intertek Company)</b> Architectural Testing Inc. (an Intertek Company), 130 Derry Court; York, PA 17406-9405 Attn: Mr. Todd Wilt, Mr. Chad Peterman, Mr. Thomas Mickley Phone: (717) 764-7700 Fax: (717) 764-4129 Email: <a href="mailto:todd.wilt@intertek.com">todd.wilt@intertek.com</a>, <a href="mailto:chad.peterman@intertek.com">chad.peterman@intertek.com</a>, <a href="mailto:tom.mickley@intertek.com">tom.mickley@intertek.com</a></p>	<p><b>750 - National Certified Testing Labs (NCTL) NW</b> National Certified Testing Labs (NCTL) NW, 3310 Hill Avenue; Everett, WA Attn: Jim Clarke Phone: (360) 631-3512 Fax: Email: <a href="mailto:jclarke@nctlinc.com">jclarke@nctlinc.com</a></p>
	Canada
	Ontario
<p><b>800 - National Certified Testing Labs (NCTL)</b> National Certified Testing Labs (NCTL), 5 Leigh Drive; York, PA 17406 Attn: Mr. Justin Bupp Phone: (717) 846-1200 Fax: (717) 846-1200 Email: <a href="mailto:jbupp@nctlinc.com">jbupp@nctlinc.com</a></p>	<p><b>450 - Intertek Testing Services NA, Ltd.</b> Intertek Testing Services NA, Ltd., 6225 Kenway Dr.; Mississauga, ON L5T 2L3 Attn: Mr. Igor Radovic, Mr. Tyrone Williams, Mr. Abdul Shahnawaz, Mr. Nahom Resom Phone: +1-905-678-7820 Fax: Email: <a href="mailto:igor.radovic@intertek.com">igor.radovic@intertek.com</a>, <a href="mailto:tyrone.williams@intertek.com">tyrone.williams@intertek.com</a>, <a href="mailto:abdul.shahnawaz@intertek.com">abdul.shahnawaz@intertek.com</a>, <a href="mailto:nahom.resom@intertek.com">nahom.resom@intertek.com</a></p>
<p><b>911 - Molimo, LLC.</b> Molimo, LLC., 1410 Eden Road; York, PA 17402 Attn: Mr. Lance Cunningham, Denise Osman, Mr. Michael Stremmel, Mr. Steve Eveler Phone: (717) 916-6300 Fax: (717) 318-5788 Email: <a href="mailto:lcunningham@molimo.com">lcunningham@molimo.com</a>, <a href="mailto:dosman@molimo.com">dosman@molimo.com</a>, <a href="mailto:mstremmel@molimo.com">mstremmel@molimo.com</a>, <a href="mailto:seveler@molimo.com">seveler@molimo.com</a></p>	
	Canada
	British Columbia
	<p><b>950 - Intertek</b> Intertek, 1500 Brigantine Dr. ; Coquitlam, BC V3K 7C1 Attn: Baldeep Sandhu, Mr. Chris Chang Phone: (604) 520-3321 Fax: Email: <a href="mailto:baldeep.sandhu@intertek.com">baldeep.sandhu@intertek.com</a>, <a href="mailto:chris.e.chang@intertek.com">chris.e.chang@intertek.com</a></p>
Texas	
<p><b>175 - Architectural Testing Inc. (an Intertek Company)</b> Architectural Testing Inc. (an Intertek Company), 1909 10th Street, Suite 100; Plano, TX 75074-8009 Attn: Mr. Jacob MacMaster, Cassandra Matthews Phone: (469) 814-0687 Fax: Email: <a href="mailto:Jacob.MacMaster@intertek.com">Jacob.MacMaster@intertek.com</a>, <a href="mailto:cassandra.matthews@intertek.com">cassandra.matthews@intertek.com</a></p>	
Washington	
<p><b>195 - Architectural Testing Inc. (an Intertek Company)</b> Architectural Testing Inc. (an Intertek Company), 22155 68th Ave. South; Kent, WA 98032-1937 Attn: Mr. Dauda Sanoh, Ms. Rachel Pankaskie, Mr. Kal Kooner Phone: (253) 395-5656 Fax: (717) 764-4129 Email: <a href="mailto:dauda.sanoh@intertek.com">dauda.sanoh@intertek.com</a>, <a href="mailto:rachel.pankaskie@intertek.com">rachel.pankaskie@intertek.com</a>, <a href="mailto:Kal.kooner@intertek.com">Kal.kooner@intertek.com</a></p>	