



safety glazing certification council

January 1, 2021

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



#0961
ISO/IEC 17065
Product Certification Body

Save the Date!



Hybrid Virtual & Naples Bay Florida

1500 Fifth Avenue South • Naples, Florida 34102 • (239) 530-1199

Tentative Meeting Schedule

Tuesday, September 28, 2021

6:30 - 8:30pm SGCC® Board of Directors Dinner

Wednesday, September 29, 2021

7:30 - 12:00pm SGCC® Board of Directors Meeting

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

5:00 - 5:15pm SGCC® Participants Meeting

Thursday, September 30, 2021

7:30 - 12:00pm SGCC® Certification Committee Meeting

More details coming soon!

January 2021

Safety Glazing Certification Council Certified Products Directory (CPD)

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

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

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

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

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

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

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

SGCC "Record of Compliance Testing" to support a manufacturer's CPSC Certificate of Compliance Testing may be obtained, when authorized by the SGCC licensee, at
<http://www.sgcc.org/Compliance-Testing.aspx>

"National Standard of Canada - Tempered or Laminated Safety Glass CAN/CGSB 12.1-2017"

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://www.techstreet.com/standards/can-cgsb-12-1-2017?product_id=1944892

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

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

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MEETINGS OF THE CERTIFICATION COMMITTEE

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

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

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

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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.

SGCC Certification Committee

Licensee	Primary Member	First Alternate	Second Alternate
24 Hour Thermal Glass Insulated Ltd.	Galo Narvaez		
A.L. Smith Glass Co. Inc.	Alton L. Smith Jr.	Russel Hardy	
A.N. ALODAN & SONS CO. GLASS & ALUMINIUM	Dhanraj Singgh Parmar	Rakesh Kumar Pal	
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Beijing Wuhuatianbao Glass Co., Ltd.	Mr. Gao Hongwei		
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SGCC Certification Committee

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ChangShu Maybo Glass Co., Ltd.	Qian Lan		
Changshu Weier Glass Products Co. Ltd.	Denise Weier	Denise Lu	
Changshu Xingfu Glass Building Material Co., LTD	Zhong Chun		
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Dalian Huaying Glass Limited Liability Co.	Stephanie Shi		
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Deqing Sanxing Plastic Chemical Co. Ltd.	Yang Min		
Dillmeier Enterprise, Inc.	Cody Tran		
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January 2021

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SGCC Certification Committee

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Northwestern Glass Fab	Stan Muriska		
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ProTemp Glass, Inc.	Silvio Tuffolo	Vee Shivprasad	
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PT Abebersa Pratama	Mahud Halim		
Pulp Studio, Inc.	Bernard Lax		
Qianse Acrylic Co., LTD.	Spring Liang		
Qingdao Globalstar Glass Technology Co., Ltd.	Zhang Gong	Li Quan	
Qingdao Ideal Building Material Co. Ltd.	Yan Feng		

SGCC Certification Committee

Licensee	Primary Member	First Alternate	Second Alternate
Qingdao Jinjing Glass Co., Ltd.	Yin Ling	Yellow Huang	
Qingdao Kingdom Glass Co., Ltd.	Tina Gu	Yanmin Yu	
Qingdao Laurel Glass Technology Co., Ltd.	Bruce Jia		
Qingdao Runya Glass Products Co., LTD	Amy Guo	Alice Cao	
Qinhuangdao Ampac Building Products Co., Ltd.	Gwang H. Park		
Qinhuangdao Jingxin Glass Co., Ltd.	Dongsheng Yan	Cindy Sun	
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Quality Enclosures Tempering, Inc.	Marvin Aguilar		
Quality Enclosures, Inc.	Michael Schwartz		
Quality Glass & Mirror, Inc.	Tom Markowski		
Quanzhou Shixing Trading Co., Ltd.	Zou Xiangjun		
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Quest Window Systems	Daniel Zalcmán		
R.I.W. Ornamental Metal, Inc.	ilija Rokvic-Rocky		
Ready Glass & Mirror, Inc.	Silverio Perez		
Reem Emirates Aluminum & Glass	Hamed Hussein		
Rizhao Huaye Glass Co., Ltd.	Alex Yin	Grant Lee	
Robover Inc.	Alain Fortin		
Rohden Vidros LTDA	Edilene Kniess	Lenuir Kniess	
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SAGE Electrochromics Inc.	Chuck Hayes	Dianne Dahl	
Saint Gobain Mexico, S.A. de C.V.	Alberto Boix	Gladys Rios	
Saint-Gobain Glassolutions Objekt-Center GmbH	Sven Toennigs		
Sapphire Glass Systems Inc.	Ekrem Kaya	Ahmet Halac	
Saudi American Glass Company	Geoff Sparks		
Saudi German Aluminum Products Co.	Ali Basher Kindi	Jameson Nacional	
SCHOTT Gemtron - Sweetwater	Beena Walker	Jack Francis	
SCHOTT Gemtron (Canada) Corporation	Bill Bartlett	Bruce Busch	
Selective Shower Glass	Fabio Castiblanco		
Senneca Holdings Inc, (Thermoseal Brand)	Joseph Sokalski		
Sfera SRL	Vianello Elio		
SG Glass Industries L.L.C.	Oscar Garcia		
SGC International Inc.	James Huang		
Shandong Kingtom Glass Co., Ltd.	Tao Zhenmin		
Shandong Yaohua Glass Co., Ltd.	James Hu		
Shanghai Bordy Decoration Materials Co., Ltd.	Xie Zhengchun		
Shanghai Haojing Glass Co., Ltd.	An Jishen		
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		
Sheng An Glass LLC	Hui Lin	Wen Wang	
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		

SGCC Certification Committee

Licensee	Primary Member	First Alternate	Second Alternate
SIGCO, Inc.	David A. McElhinny	Matthew Dunn	
Simonton Windows	Tina Seese	Steven Saffell	
Singh Glass & Mirror Inc. dba Luso Glass Company	Mandeep Singh	Devinder Bains	
SiO2 Fabricating	Lance Hamilton	Josh Muniz	
Sisecam Flat Glass Italy S.r.l.			
Sky Land Tempering Glass Corp	Ricky Zeng		
Skyline Design	David Wildfield		
Solar Seal Company-MA	Jim Miller		
South Bay Showers, Inc.	Michael Sutton		
Southern Wholesale Glass	Mark Michael		
Splendor Shower Door	John Wanamaker	Tom Wanamaker	
Standard Bent Glass	Denise Swigart		
Stanley Glass Co., Ltd.	Connie Cheng	Tony Hsu	
Stargrup Cam A.S.	Emrah Arslankara		
Strong Tempering Glass Industry LLC	Mark Chen		
Sunfire Glass, Inc.	Dennys Fernandez		
Sunglas Technics Co., Ltd.	Mr. Zhao Jianxin	Steven Shung	
Swift Glass Co., Inc.	Daniel J. Burke	Kathleen B. Schweizer	Charles Burke
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, Inc.	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		
Templado S.A.S.	Mauricio Quintero		
Templados Del Centro SA DE C.V.	Omar Rios	Fernanda Garcia	
TG Taicang Architectural Glass Co. Ltd	Melody Bi		
The Original Frameless Shower Door	John Serino		
Thermal Seal Insulating Glass	Ann Oliveira		
Thermalsun Glass Products	Brad Kloes		
Thermo BSL	Pierre-Luc Bellavance	Claude Pelletier	
Thiele Glas Werk GmbH	Heico Gensheimer	Elias Luzius	
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	
Tristar Glass, Inc.	Tim Kelley		
Triton Glass LLC	Sahaj R. Patel		
Troy Systems LLC	Ali Guney		
Trulite Glass and Aluminum Solutions	Jeff Haberer	Adrian Casas	
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	

SGCC Certification Committee

Licensee	Primary Member	First Alternate	Second Alternate
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	
Valda 90 Ltd.	Hristo Vasilev		
Valentini Glass & Components srl	Claudio Valentini		
Vanbo Glass Industries Inc.	Jason Wu	June Ma	
Velocity an Apogee Company	Jason Fransen	Neptali Morillo	
Vetzeria F. Illi Paci	Maurilio Paci		
Vetrodomus SpA	Frederico Casaccio	Chiara Pastore	
Vidrio Bisel S.A. de C.V.	Ignacio Flores Suarez		
View Inc.	Joe Crouson		
Viewrail	Troy Burns	David Maxwell	
Viracon Inc.	Brian Louks	Don Boutelle	
Virginia Glass Products Corp.	W. Chris Beeler	Rodney Keatts	
Vistamatic, LLC	Kevin Roth		
Vitelsa Mosquera S.A.	Laura Luna		
Vitemex	Edgar Alonso de la Cruz		
Vitralum Glass Solutions Inc.	Eliben Morelos	Benjamin Morelos	
Vitro Flat Glass, LLC (formerly PPG)	Kevin Ramus	Wayne Boor	
VITRO S.A.B. DE C.V.	Prisciliano Bernal Ramírez	Santiago de la Torre García	
Vitro SAB	Alberto Vilchis Trujillo	Julio Castillo Barrado	
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 Product	Rusty Neubauer		
Whalley Glass Co	Mark Vece		
White Aluminium Enterprises L.L.C	Jabr Doshan		
Wholesale Glass Distributors, Inc.	Kevin Boudreaux		
WHTB Glass, LLC	Hongwei Gao	Zhu Zhu	
Window Creations, LLC	Jason Buehrer	Brad Allison	
Window Technologies, Inc.	Michael Castleberry		
Wisconsin Shower Door & Supply Corp	Chuck Biesik	James Kinsey	
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		
Wujiang Golden Glass Technologies, Ltd.	Wu Cong Zhen		
Xiamen Shiner Industrial Co., Ltd.	Anne Law	Maggie Liang	
Xiamen Togen Building Products Co., Ltd.	Lily Liu	Eric Wang	
Xianning CSG Energy Conservation Glass Co., LTD.	Ms. Yu Jiao		
Xinyi Glass (Yingkou) Co., Ltd.	Zeming Wang		
Xinyi Group (Glass) Co. Ltd.	Janette Huang	Ms. Cherry Li	
Yakut Cam A.S	Faith Poyraz	Murat Tuncer	
Yildiz Cam San. Tic. A.S.	Mevlude Kaynak	Gulsen Ekici	
Yitian (Cattis) Glass Product Co., Ltd	XiaoJun Zheng		

January 2021

SGCC Certification Committee

Licensee	Primary Member	First Alternate	Second Alternate
Yong Feng Tai Foshan City Glas Co., LTD.	Aijun Zhong		
Zhangjiagang City Daming Glass Product Co., Ltd	Xiao Ruijuan		
Zhangjiagang Weiyu Fabricated Glass Co. Ltd.	Mr. Xu Zhengdong		
Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd	Ms. Meng Qingxian		
Zhongshan Walle Glass Product Co., Ltd	Yilan Liu		
Zorro International Corporation	Joe He		

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

January 2021

Revised 10/1/2014

~PROGRAM CONCEPT~

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

The purpose of SGCC is:

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

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

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

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

National Standard of Canada - Tempered or Laminated Safety Glass: CAN/CGSB 12.1-2017

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

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

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

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

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

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

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

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

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

PROCEDURAL GUIDE (SD-07)

FOREWORD

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

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

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

GENERAL INFORMATION

THE CERTIFICATION CONCEPT

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

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

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

WHO CAN BECOME A LICENSEE? (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.

- a. Tempered – ANSI Z97.1 Center Punch¹ and/or Impactor¹ Test - As a minimum, testing shall occur on the first of each product thickness per shift. Additional testing may be appropriate.
 - b. Laminated – ASTM F3007¹ 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®.

¹ Please contact SGCC at SGCC@amscert.com or visit the SGCC website (<https://www.sgcc.org/Miscellaneous-Forms-and-Information.aspx>) 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 2nd 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 must be of safety glazing material.

G.5

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

G.6

- a) All test specimens, except prototype samples, must be marked with the correct SGCC® permanent label prior to testing in order to be considered a valid sample. It is the responsibility of the licensee to ensure the specimens being represented to the Administrator's representative are properly labeled. The Administrator shall construe the absence of a correct permanent label as a failure to comply with the specifications. In such case of noncompliance, Sections a 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/emailed 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)

TEMPERED TRANSPARENT GLASS

T.1

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

T.2

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

T.3

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

T.4

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

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

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) 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" dated May 21, 2019 available at 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)

Laminated Glass Equivalency (Table L1)		
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.		
Change Categories	Equivalent Changes	Not Equivalent Changes
Interlayer generic category	Different brand of same generic category (see guideline L.11)	Different generic category
Interlayer thickness	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)
Glass/glazing	Flat, patterned or bent glass	Change from glass to plastic or plastic to glass
Glass fabrication	(A, HS, T, CS) See guideline L.8	N/A
Dimensional tolerances (Glass and Interlayer)	(See Guideline L.1 and L.7)	N/A
Inserts or changes in material of plies or inserts (generic make-up)	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
Additional layers of same type	Increase in layers (As long as overall thickness remains within range of certified product).	Decrease in layers
Coatings or Color (interlayer or glazing)	Changes in tint, translucence, or coated glass	N/A
Decorative pattern (not to be confused with patterned glass)	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
Electronics, plastics or other devices	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 most recent memo “VIG ANSI Interpretation and Information” at www.sgcc.org or contact the SGCC office.

CHEMICALLY STRENGTHENED SAFETY GLASS (CSSG)

See most recent “ASC Z97 Technical Interpretation (TI-2018.1017.001)” at 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 or 16 CFR 1201 or both, or both plus CAN/CGSB 12.1. Products are not certified by SGCC unless and until a test to the applicable specification(s) conducted at an approved testing laboratory indicates compliance and the license contract requirements are met. (Revised 10/10/2012)

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

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

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

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

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

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

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

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

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 12.1-2017	CAN/CGSB 12.1-2017	CAN/CGSB 12.1-2017
1/4 U A SGCC 9999	6mm U A SGCC 9999	(S) U A SGCC 9999

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

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

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

EXAMPLES

SGCC® Licensee or Primary Producer

Company ABC (optional)
Laminated Glass (optional)
ANSI Z97.1-2015
16 CFR 1201 CII
SGCC 9999 6mm U A

Authorized Distributor or Installer

Company XYZ (optional)
Laminated Glass (optional)
ANSI Z97.1-2015
16 CFR 1201 CII
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.

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Certified Products-Alphabetical By Plant

SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS	SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS
24 Hour Thermal Glass Insulated Ltd. ; Concord, ON							AGC Flat Glass North America ; Greenland, TN						
6918	COMPOSITE	5/32		4.0TTG		UA	598	COMP+CAN	1/8		3.0TTG		UA
6919	COMPOSITE	3/16		5.0TTG		UA	955	COMP+CAN	5/32		4.0TTG		UA
6920	COMPOSITE	1/4		6.0TTG		UA	220	COMP+CAN	3/16		5.0TTG		UA
A.L. Smith Glass Co. Inc. ; Ijamsville, MD							89	COMP+CAN	1/4		6.0TTG		UA
8098	COMPOSITE	3/16		5.0TTG		UA	4046	COMP+CAN	5/16		8.0TTG		UA
8099	COMPOSITE	1/4		6.0TTG		UA	90	COMP+CAN	3/8		10.0TTG		UA
6144	COMPOSITE	3/8		10.0TTG		UA	587	COMP+CAN	1/8		3.0TPG (s)		UA
6145	COMPOSITE	1/2		12.0TTG		UA	2980	COMP+CAN	5/32		4.0TPG (m)		UA
A.N. ALODAN & SONS CO. GLASS & ALUMINIUM FACTORY ; Riyadh, Saudi Arabia							1139	COMP+CAN	3/16		5.0TPG (s)		UA
7269	COMP+CAN	1/4		6.0TTG		UA	AGC Flat Glass North America ; Spring Hill, KS						
7276	COMP+CAN	5/16		8.0TTG		UA	1702	COMP+CAN	1/8		3.0TTG		UA
7277	COMP+CAN	*		12.0TTG (7)		UA	1703	COMP+CAN	5/32		4.0TTG		UA
7278	COMP+CAN	(H)		8-16+LTG (b)(T)	(.045)	UA	1704	COMP+CAN	3/16		5.0TTG		UA
Accurate Glass Products ; Barrie, Ontario							1705	COMP+CAN	1/4		6.0TTG		UA
7672	COMP+CAN	3/16		5.0TTG		UA	AGNORA LTD ; Collingwood, ON						
7418	COMP+CAN	1/4		6.0TTG		UA	4883	COMP+CAN	1/4		6.0TTG		UA
7419	COMP+CAN	5/16		8.0TTG		UA	4885	COMP+CAN	3/8		10.0TTG		UA
7420	COMP+CAN	3/8		10.0TTG		UA	4884	COMP+CAN	1/2		12.0TTG		UA
7421	COMP+CAN	1/2		12.0TTG		UA	4886	COMP+CAN	(H)		12+LTG (b)(A)	(.030)	UA
Acme Glass LTD. ; Surrey, BC							AKMA LLC ; Saint-Petersburg, St.Petersburg						
7939	COMP+CAN	5/32		4.0TTG		UA	7838	COMP+CAN	1/4		6.0TTG		UA
7940	COMP+CAN	3/16		5.0TTG		UA	8182	COMP+CAN	5/16		8.0TTG		UA
7941	COMP+CAN	1/4		6.0TTG		UA	8183	COMP+CAN	3/8		10.0TTG		UA
7942	COMP+CAN	3/8		10.0TTG		UA	7839	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.035)	UA
7943	COMP+CAN	1/2		12.0TTG		UA	Al Abbar Architectural Glass ; Dubai, United Arab Emirates						
Advanced Design Manufacturing ; Antioch, CA							4846	COMPOSITE	3/16		5.0TTG		UA
6685	COMPOSITE	1/4		6.0TTG		UA	3556	COMPOSITE	1/4		6.0TTG		UA
6686	COMPOSITE	3/8		10.0TTG		UA	3557	COMPOSITE	5/16		8.0TTG		UA
Advanced Impact Technologies ; Largo, FL							3558	COMPOSITE	3/8		10.0TTG		UA
7374	COMP+CAN	1/8		3.0TTG		UA	4590	COMPOSITE	1/2		12.0TTG		UA
7375	COMP+CAN	3/16		5.0TTG		UA	3976	COMPOSITE	*		15.0TTG (4)		UA
7376	COMP+CAN	1/4		6.0TTG		UA	3977	COMPOSITE	3/4		19.0TTG		UA
7377	COMP+CAN	3/8		10.0TTG		UA	3560	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA
7378	COMP+CAN	1/2		12.0TTG		UA	Al Andalus Glass Factory Co. ; Riyadh, Riyadh						
7434	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	7486	COMPOSITE	1/4		6.0TTG		UA
7435	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA	7487	COMPOSITE	1/2		12.0TTG		UA
AdvanTec ; Chilliwack, BC							7488	COMPOSITE	(H)		12LTG (b)(A)	(.030)	UA
7463	COMPOSITE	5/32		4.0TTG		UA	Aldora Aluminum and Glass Products Inc. ; Charleston, SC						
7464	COMPOSITE	3/16		5.0TTG		UA	4328	COMPOSITE	1/8		3.0TTG		UA
7465	COMPOSITE	1/4		6.0TTG		UA	4330	COMPOSITE	3/16		5.0TTG		UA
7466	COMPOSITE	5/16		8.0TTG		UA	4331	COMPOSITE	1/4		6.0TTG		UA
7467	COMPOSITE	3/8		10.0TTG		UA	4335	COMPOSITE	3/8		10.0TTG		UA
7468	COMPOSITE	1/2		12.0TTG		UA	4336	COMPOSITE	1/2		12.0TTG		UA
7469	COMPOSITE	*		15.0TTG (4)		UA	4337	COMPOSITE	(H)		8, 12LTG (lu)(A)	(.060)	UA
7470	COMPOSITE	3/4		19.0TTG		UA	Aldora Aluminum and Glass Products, Inc. ; Austell, GA						
							7307	COMPOSITE	1/8		3.0TTG		UA
							7308	COMPOSITE	3/16		5.0TTG		UA
							7309	COMPOSITE	1/4		6.0TTG		UA
							7310	COMPOSITE	3/8		10.0TTG		UA
							7311	COMPOSITE	1/2		12.0TTG		UA
							7851	COMPOSITE	3/4		19.0TTG		UA

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SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS	SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS
Aldora Aluminum and Glass Products, Inc. ; Coral Springs, FL							Aluminum Manufacturers Co. Ltd - ALUMATEC ; Jeddah, Saudi Arabia						
7643	COMPOSITE	3/16		5.0TTG		UA	6151	COMPOSITE	1/4		6.0TTG		UA
7644	COMPOSITE	1/4		6.0TTG		UA	6152	COMPOSITE	5/16		8.0TTG		UA
7645	COMPOSITE	3/8		10.0TTG		UA	6891	COMPOSITE	3/8		10.0TTG		UA
7646	COMPOSITE	1/2		12.0TTG		UA	7346	COMPOSITE	*		12.0TTG (7)		UA
7647	COMPOSITE	5/8		16.0TTG		UA	6892	COMPOSITE	(H)		12LTG (b)(A)	(.030)	UA
7648	COMPOSITE	(H)		12LTG (lu)(HS)(6)	(.090)	UA	Aluminum Technology Auxiliary Industries ; Doha, Qatar						
Aldora Aluminum and Glass Products, Inc. ; Orlando, FL							7197	COMPOSITE	1/4		6.0TTG		UA
5574	COMPOSITE	1/8		3.0TTG		UA	7198	COMPOSITE	5/16		8.0TTG		UA
5575	COMPOSITE	3/16		5.0TTG		UA	5084	COMPOSITE	3/8		10.0TTG		UA
5576	COMPOSITE	1/4		6.0TTG		UA	5212	COMPOSITE	1/2		12.0TTG		UA
5579	COMPOSITE	3/8		10.0TTG		UA	American Insulated Glass ; Dallas, NC						
5577	COMPOSITE	1/2		12.0TTG		UA	3859	COMPOSITE	1/8		3.0TTG		UA
6428	COMPOSITE	(H)		8LTG (b)(A)	(.060)	UA	3860	COMPOSITE	5/32		4.0TTG		UA
6429	COMPOSITE	(H)		8LTG (ip)(A)	(.060)	UA	3861	COMPOSITE	3/16		5.0TTG		UA
All Counties Glass ; Stockton, CA							3862	COMPOSITE	1/4		6.0TTG		UA
6409	COMP+CAN	1/8		3.0TTG		UA	3863	COMPOSITE	3/8		10.0TTG		UA
6410	COMP+CAN	5/32		4.0TTG		UA	3864	COMPOSITE	1/2		12.0TTG		UA
6411	COMP+CAN	3/16		5.0TTG		UA	American Insulated Glass LLC. ; Plymouth Township, MI						
6412	COMP+CAN	1/4		6.0TTG		UA	7834	COMPOSITE	1/8		3.0TTG		UA
6413	COMP+CAN	5/16		8.0TTG		UA	8131	COMPOSITE	5/32		4.0TTG		UA
6414	COMP+CAN	3/8		10.0TTG		UA	7835	COMPOSITE	3/16		5.0TTG		UA
6415	COMP+CAN	1/2		12.0TTG		UA	7836	COMPOSITE	1/4		6.0TTG		UA
All Team Glass & Mirror, Ltd. ; Woodbridge, ON Canada							7837	COMPOSITE	3/8		10.0TTG		UA
1755	COMP+CAN	3/16		5.0TTG		UA	7875	COMPOSITE	1/8		3.0TPG (s)		UA
1756	COMP+CAN	1/4		6.0TTG		UA	7876	COMPOSITE	3/16		5.0TPG (s)		UA
2790	COMP+CAN	5/16		8.0TTG		UA	American Insulated Glass, LLC ; Conley, GA						
1757	COMP+CAN	3/8		10.0TTG		UA	5283	COMPOSITE	1/8		3.0TTG		UA
1758	COMP+CAN	1/2		12.0TTG		UA	5284	COMPOSITE	3/16		5.0TTG		UA
4355	COMP+CAN	5/8		16.0TTG		UA	5285	COMPOSITE	1/4		6.0TTG		UA
3656	COMP+CAN	3/4		19.0TTG		UA	5286	COMPOSITE	3/8		10.0TTG		UA
All Weather Architectural Aluminum ; Vacaville, CA							5287	COMPOSITE	1/2		12.0TTG		UA
6396	COMP+CAN	5/32		4.0TTG		UA	5288	COMPOSITE	1/8		3.0TPG (s)		UA
6397	COMP+CAN	3/16		5.0TTG		UA	5289	COMPOSITE	3/16		5.0TPG (m)		UA
6398	COMP+CAN	1/4		6.0TTG		UA	American Shower Door ; Los Angeles, CA						
All Weather Tempering of Arizona, LLC. ; Phoenix, AZ							3039	COMPOSITE	1/4		6.0TTG		UA
6377	COMPOSITE	1/8		3.0TTG		UA	3040	COMPOSITE	3/8		10.0TTG		UA
6378	COMPOSITE	5/32		4.0TTG		UA	3041	COMPOSITE	1/2		12.0TTG		UA
6379	COMPOSITE	3/16		5.0TTG		UA	3042	COMPOSITE	1/4		6.0TPG (s)		UA
6380	COMPOSITE	1/4		6.0TTG		UA	3043	COMPOSITE	3/8		10.0TPG (s)		UA
7010	COMPOSITE	5/16		8.0TTG		UA	Amsco Windows ; Salt Lake City, UT						
7011	COMPOSITE	3/8		10.0TTG		UA	2578	COMPOSITE	1/8		3.0TTG		UA
7012	COMPOSITE	1/2		12.0TTG		UA	4643	COMPOSITE	5/32		4.0TTG		UA
6381	COMPOSITE	1/8		3.0TPG (s)		UA	2580	COMPOSITE	3/16		5.0TTG		UA
6382	COMPOSITE	3/16		5.0TPG (m)		UA	2581	COMPOSITE	1/4		6.0TTG		UA
7994	COMPOSITE	3/8		10.0TPG (s)		UA	2582	COMPOSITE	1/8		3.0TPG (m)		UA
Allglass Tempering Inc. ; Schiller Park, IL							2584	COMPOSITE	3/16		5.0TPG (m)		UA
5835	COMPOSITE	5/32		4.0TTG		UA							
5836	COMPOSITE	3/16		5.0TTG		UA							
5837	COMPOSITE	1/4		6.0TTG		UA							
5838	COMPOSITE	3/8		10.0TTG		UA							
5839	COMPOSITE	1/2		12.0TTG		UA							
7764	COMPOSITE	(H)		10LTG (ev)(A)	(.060)	UA							

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SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS	SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS
Anhui Dahe Mirror Enterprise Co. LTD. ; Anhui, China							ATI Windows ; Riverside, CA						
7778	COMP+CAN	1/8		3.0TTG		UA	5635	COMPOSITE	1/8		3.0TTG		UA
7779	COMP+CAN	3/16		5.0TTG		UA	5636	COMPOSITE	5/32		4.0TTG		UA
7780	COMP+CAN	1/4		6.0TTG		UA	5637	COMPOSITE	3/16		5.0TTG		UA
7781	COMP+CAN	5/16		8.0TTG		UA	5638	COMPOSITE	1/4		6.0TTG		UA
7782	COMP+CAN	3/8		10.0TTG		UA	8057	COMPOSITE	3/8		10.0TTG		UA
7783	COMP+CAN	1/2		12.0TTG		UA	8058	COMPOSITE	1/2		12.0TTG		UA
Ant-Cam Pazarlama A.S. ; Antalya, Dosemealti							5639	COMPOSITE	1/8		3.0TPG (s)		UA
8047	COMPOSITE	(H)		16+LTG (b)(A)	(.030)	UA	7995	COMPOSITE	5/32		4.0TPG (m)		UA
8046	COMPOSITE	(H)		16+LTG (ip)(A)	(.035)	UA	ATN Holding Inc. ; Mira Loma, CA						
Anthony International ; Madison, GA							5887	COMPOSITE	1/8		3.0TTG		UA
3249	COMPOSITE	1/8		3.0TTG		UA	5888	COMPOSITE	3/16		5.0TTG		UA
3027	COMPOSITE	5/32		4.0TTG		UA	6262	COMPOSITE	1/4		6.0TTG		UA
2352	COMPOSITE	3/16		5.0TTG		UA	6263	COMPOSITE	3/8		10.0TTG		UA
2353	COMPOSITE	1/4		6.0TTG		UA	6264	COMPOSITE	1/2		12.0TTG		UA
5234	COMPOSITE	5/16		8.0TTG		UA	6261	COMPOSITE	1/8		3.0TPG (s)		UA
2453	COMPOSITE	3/8		10.0TTG		UA	6696	COMPOSITE	3/16		5.0TPG (m)		UA
6099	COMPOSITE	5/32		4.0TBG		UA	Basco Engineered Products ; Hamilton, OH						
2306	COMPOSITE	3/16		5.0TBG		UA	4139	COMPOSITE	1/8		3.0TTG		UA
2307	COMPOSITE	1/4		6.0TBG		UA	4724	COMPOSITE	3/16		5.0TTG		UA
Anthony International ; San Fernando, CA							3810	COMPOSITE	1/4		6.0TTG		UA
520	COMPOSITE	1/8		3.0TTG		UA	3811	COMPOSITE	3/8		10.0TTG		UA
2289	COMPOSITE	5/32		4.0TTG		UA	3812	COMPOSITE	1/2		12.0TTG		UA
999	COMPOSITE	3/16		5.0TTG		UA	5076	COMPOSITE	3/4		19.0TTG		UA
1000	COMPOSITE	1/4		6.0TTG		UA	8106	COMPOSITE	3/16		5.0TPG (m)		UA
Architectural Glass Products, LLC. ; St. Louis, MO							4689	COMPOSITE	1/4		6.0TPG (s)		UA
4571	COMPOSITE	1/8		3.0TTG		UA	5203	COMPOSITE	3/8		10.0TPG (m)		UA
4572	COMPOSITE	3/16		5.0TTG		UA	Bazhou hua Biao Furniture Co., Ltd. ; Bazhou, Hebei						
4573	COMPOSITE	1/4		6.0TTG		UA	7193	COMP+CAN	3/16		5.0TTG		UA
4574	COMPOSITE	3/16		5.0TPG (s)		UA	7194	COMP+CAN	1/4		6.0TTG		UA
Arlene Stained Glass & Door ; Houston, TX							7195	COMP+CAN	5/16		8.0TTG		UA
4589	COMPOSITE	1/8		3.0TTG (IN)		UA	7196	COMP+CAN	3/8		10.0TTG		UA
5127	COMPOSITE	1/8		3.0TTG (IN)		UA	Beijing Northglass Technologies Co. Ltd ; Beijing, China						
3583	COMPOSITE	3/16		5.0TTG (IN)		UA	6668	COMP+CAN	1/4		6.0TTG (IN)		UA
3584	COMPOSITE	1/4		6.0TTG (IN)		UA	6669	COMP+CAN	5/16		8.0TTG (IN)		UA
3585	COMPOSITE	5/32		4.0TPG (d)(IN)		UA	7562	COMP+CAN	3/8		10.0TTG		UA
ArtVue Glass ; Sarasota, FL							6677	COMP+CAN	(H)		12-16+LTG (b)(T)	(.060)	UA
7445	COMPOSITE	(H)		10-16+LTG (ev)(A)	(.060)	UA	Beijing Wuhua Tianbao Glass Co. ; Beijing, China						
7968	COMPOSITE	(H)		12LTG (ip)(A)	(.035)	UA	6903	COMP+CAN	5/32		4.0TTG		UA
Ascent Glass Products (Zhong Shan) Limited ; Zhongshan City, Guangdong Province							6904	COMP+CAN	3/16		5.0TTG		UA
7929	COMPOSITE	5/32		4.0TTG		UA	6905	COMP+CAN	1/4		6.0TTG		UA
7930	COMPOSITE	3/16		5.0TTG		UA	6906	COMP+CAN	5/16		8.0TTG		UA
7931	COMPOSITE	1/4		6.0TTG		UA	6907	COMP+CAN	3/8		10.0TTG		UA
7932	COMPOSITE	5/16		8.0TTG		UA	6908	COMP+CAN	*		12.0TTG (4)		UA
7933	COMPOSITE	3/8		10.0TTG		UA	6909	COMP+CAN	*		15.0TTG (4)		UA
							6910	COMP+CAN	3/4		19.0TTG		UA
							7762	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
							7763	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA

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Bel Pre Glassworks Inc. ; Rockville, MD							Bronco Industries, Inc. ; Delta, BC						
6320	COMPOSITE	1/8		3.0TTG		UA	6973	COMP+CAN	1/8		3.0TTG		UA
6321	COMPOSITE	3/16		5.0TTG		UA	5871	COMP+CAN	5/32		4.0TTG		UA
6322	COMPOSITE	1/4		6.0TTG		UA	6974	COMP+CAN	3/16		5.0TTG		UA
6711	COMPOSITE	3/8		10.0TTG		UA	5366	COMP+CAN	1/4		6.0TTG		UA
6324	COMPOSITE	1/2		12.0TTG		UA	5367	COMP+CAN	3/8		10.0TTG		UA
6325	COMPOSITE	3/4		19.0TTG		UA	5368	COMP+CAN	1/2		12.0TTG		UA
Bel Shower Door Corporation ; Englewood, CO							6972	COMP+CAN	3/4		19.0TTG		UA
6470	COMP+CAN	3/16		5.0TTG		UA	Bronx Westchester Tempering Inc. ; Mount Vernon, NY						
6471	COMP+CAN	1/4		6.0TTG		UA	7412	COMPOSITE	3/16		5.0TTG		UA
6472	COMP+CAN	3/8		10.0TTG		UA	7413	COMPOSITE	1/4		6.0TTG		UA
6473	COMP+CAN	1/2		12.0TTG		UA	7414	COMPOSITE	3/8		10.0TTG		UA
6474	COMP+CAN	3/16		5.0TPG (m)		UA	7415	COMPOSITE	1/2		12.0TTG		UA
Bendheim Wall Systems ; Wunsiedel-Holenbrunn, Germany							7416	COMPOSITE	5/8		16.0TTG		UA
5145	COMPOSITE	*		6.0TBP (s)(2)		22x76 A	7417	COMPOSITE	3/4		19.0TTG		UA
5144	COMPOSITE	*		7.0TBP (d)(2)		16x76 A	Burhani Glass Factory, LLC ; Dubai, UAE						
2570	COMPOSITE	*		6.0TBG (2)		20x76 A	8111	COMPOSITE	1/4		6.0TTG		UA
2569	COMPOSITE	*		7.0TBG (2)		16x76 A	8112	COMPOSITE	5/16		8.0TTG		UA
Berkowitz, J.E. ; Pedricktown, NJ							8113	COMPOSITE	3/8		10.0TTG		UA
4837	COMP+CAN	1/4		6.0TTG		UA	8114	COMPOSITE	1/2		12.0TTG		UA
2646	COMP+CAN	3/8		10.0TTG		UA	8115	COMPOSITE	H		12.0LTG (b)(A)	(.060)	UA
1991	COMP+CAN	1/2		12.0TTG		UA	BVGLAZING SYSTEMS ; Concord, ON						
2647	COMP+CAN	3/4		19.0TTG		UA	6134	COMP+CAN	5/32		4.0TTG		UA
5222	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	6135	COMP+CAN	3/16		5.0TTG		UA
3750	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	6136	COMP+CAN	1/4		6.0TTG		UA
BG Glass Technologies Inc. ; Barrie, Ontario							6137	COMP+CAN	5/16		8.0TTG		UA
8137	COMP+CAN	5/32		4.0TTG		UA	6138	COMP+CAN	3/8		10.0TTG		UA
8138	COMP+CAN	3/16		5.0TTG		UA	7694	COMP+CAN	1/2		12.0TTG		UA
8139	COMP+CAN	1/4		6.0TTG		UA	6139	COMP+CAN	3/16		5.0TPG (s)		UA
8140	COMP+CAN	3/8		10.0TTG		UA	C&C Custom Glass & Tempering, LLC ; Tulsa, OK						
8141	COMP+CAN	1/2		12.0TTG		UA	6854	COMPOSITE	5/32		4.0TTG		UA
Blackline Aluminum Systems ; Markham, ON							6855	COMPOSITE	3/16		5.0TTG		UA
8117	COMP+CAN	5/32		4.0TTG		UA	6856	COMPOSITE	1/4		6.0TTG		UA
8118	COMP+CAN	3/16		5.0TTG		UA	6857	COMPOSITE	5/16		8.0TTG		UA
8119	COMP+CAN	1/4		6.0TTG		UA	6858	COMPOSITE	3/8		10.0TTG		UA
8120	COMP+CAN	3/8		10.0TTG		UA	6859	COMPOSITE	1/2		12.0TTG		UA
Blue Star Glass Inc. ; North Brunswick, NJ							6860	COMPOSITE	3/4		19.0TTG (IN)		UA
4517	COMPOSITE	1/8		3.0TTG		UA	6962	COMPOSITE	5/32		4.0TPG (s)		UA
6782	COMPOSITE	5/32		4.0TTG		UA	6861	COMPOSITE	3/16		5.0TPG (s)		UA
4518	COMPOSITE	3/16		5.0TTG		UA	6862	COMPOSITE	3/8		10.0TPG (s)		UA
4519	COMPOSITE	1/4		6.0TTG		UA	Cameron Glass, Inc. ; Broken Arrow, OK						
6407	COMPOSITE	5/16		8.0TTG		UA	4832	COMP+CAN	1/8		3.0TTG		UA
4520	COMPOSITE	3/8		10.0TTG		UA	2501	COMP+CAN	3/16		5.0TTG		UA
4521	COMPOSITE	1/2		12.0TTG		UA	2455	COMP+CAN	1/4		6.0TTG		UA
5174	COMPOSITE	5/8		16.0TTG		UA	2032	COMP+CAN	3/8		10.0TTG		UA
5175	COMPOSITE	3/4		19.0TTG		UA	2033	COMP+CAN	1/2		12.0TTG		UA
							Cardinal CG ; Buford, GA						
							1921	COMP+CAN	1/8		3.0TTG		UA
							1922	COMP+CAN	5/32		4.0TTG		UA
							1923	COMP+CAN	3/16		5.0TTG		UA
							1924	COMP+CAN	1/4		6.0TTG		UA
							2146	COMP+CAN	1/8		3.0TPG (s)		UA
							4599	COMP+CAN	3/16		5.0TPG (s)		UA

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Cardinal CG ; Casa Grande, AZ							Cardinal CG ; Spring Green, WI						
2878	COMP+CAN	1/8		3.0TTG		UA	2067	COMP+CAN	1/8		3.0TTG		UA
2879	COMP+CAN	5/32		4.0TTG		UA	2068	COMP+CAN	5/32		4.0TTG		UA
2880	COMP+CAN	3/16		5.0TTG		UA	2069	COMP+CAN	3/16		5.0TTG		UA
2881	COMP+CAN	1/4		6.0TTG		UA	2070	COMP+CAN	1/4		6.0TTG		UA
4103	COMP+CAN	1/8		3.0TPG (s)		UA	5281	COMP+CAN	5/16		8.0TTG		UA
4104	COMP+CAN	5/32		4.0TPG (d)		UA	2071	COMP+CAN	1/8		3.0TPG (s)		UA
4105	COMP+CAN	3/16		5.0TPG (m)		UA	6802	COMP+CAN	3/16		5.0TPG (m)		UA
Cardinal CG ; Galt, CA							Cardinal CG ; Tumwater, WA						
2357	COMPOSITE	1/8		3.0TTG		UA	2007	COMP+CAN	1/8		3.0TTG		UA
2358	COMPOSITE	5/32		4.0TTG		UA	2008	COMP+CAN	5/32		4.0TTG		UA
2359	COMPOSITE	3/16		5.0TTG		UA	2009	COMP+CAN	3/16		5.0TTG		UA
2360	COMPOSITE	1/4		6.0TTG		UA	2010	COMP+CAN	1/4		6.0TTG		UA
3599	COMPOSITE	1/8		3.0TPG (s)		UA	2954	COMP+CAN	1/8		3.0TPG (s)		UA
4347	COMPOSITE	5/32		4.0TPG (d)		UA	6723	COMP+CAN	5/32		4.0TPG (d)		UA
3601	COMPOSITE	3/16		5.0TPG (m)		UA	2956	COMP+CAN	3/16		5.0TPG (m)		UA
Cardinal CG ; Loveland, CO							Cardinal CG ; Waxahachie, TX						
3579	COMPOSITE	1/8		3.0TTG		UA	2699	COMP+CAN	1/8		3.0TTG		UA
3580	COMPOSITE	5/32		4.0TTG		UA	2700	COMP+CAN	5/32		4.0TTG		UA
3581	COMPOSITE	3/16		5.0TTG		UA	2701	COMP+CAN	3/16		5.0TTG		UA
3555	COMPOSITE	1/4		6.0TTG		UA	2702	COMP+CAN	1/4		6.0TTG		UA
8060	COMPOSITE	5/16		8.0TTG		UA	4047	COMP+CAN	5/32		4.0TPG (m)		UA
4343	COMPOSITE	1/8		3.0TPG (s)		UA	2705	COMP+CAN	3/16		5.0TPG (m)		UA
4344	COMPOSITE	5/32		4.0TPG (d)		UA	Cardinal CT ; Adel, GA						
4345	COMPOSITE	3/16		5.0TPG (m)		UA	5095	COMP+CAN	1/8		3.0TTG		UA
5720	COMPOSITE	1/4		6.0TPG (d)		UA	5096	COMP+CAN	5/32		4.0TTG		UA
Cardinal CG ; Mazomanie, WI							5097	COMP+CAN	3/16		5.0TTG		UA
4780	COMP+CAN	1/8		3.0TTG		UA	5364	COMP+CAN	1/4		6.0TTG		UA
4781	COMP+CAN	5/32		4.0TTG		UA	6842	COMP+CAN	5/16		8.0TTG		UA
5306	COMP+CAN	3/16		5.0TTG		UA	6172	COMP+CAN	3/8		10.0TTG		UA
4783	COMP+CAN	1/4		6.0TTG		UA	6173	COMP+CAN	1/2		12.0TTG		UA
6552	COMP+CAN	5/16		8.0TTG		UA	5098	COMP+CAN	1/8		3.0TPG (d)		UA
Cardinal CG ; Moreno Valley, CA							5099	COMP+CAN	5/32		4.0TPG (d)		UA
2293	COMP+CAN	1/8		3.0TTG		UA	5100	COMP+CAN	3/16		5.0TPG (d)		UA
2294	COMP+CAN	5/32		4.0TTG		UA	6174	COMP+CAN	1/4		6.0TPG (s)		UA
2295	COMP+CAN	3/16		5.0TTG		UA	6516	COMP+CAN	3/8		10.0TPG (s)		UA
2296	COMP+CAN	1/4		6.0TTG		UA	Cardinal CT ; Easton, PA						
5335	COMP+CAN	1/8		3.0TPG (s)		UA	4756	COMP+CAN	1/8		3.0TTG		UA
5336	COMP+CAN	3/16		5.0TPG (m)		UA	4757	COMP+CAN	5/32		4.0TTG		UA
Cardinal CG ; Northfield, MN							4758	COMP+CAN	3/16		5.0TTG		UA
1985	COMP+CAN	1/8		3.0TTG		UA	5842	COMP+CAN	1/4		6.0TTG		UA
1986	COMP+CAN	5/32		4.0TTG		UA	4759	COMP+CAN	1/8		3.0TPG (m)		UA
1987	COMP+CAN	3/16		5.0TTG		UA	4760	COMP+CAN	5/32		4.0TPG (s)		UA
1988	COMP+CAN	1/4		6.0TTG		UA	6143	COMP+CAN	3/16		5.0TPG (m)		UA
4775	COMP+CAN	5/16		8.0TTG		UA	Cardinal CT ; Fort Worth, TX						
4137	COMP+CAN	3/8		10.0TTG		UA	7317	COMPOSITE	1/8		3.0TTG		UA
6534	COMP+CAN	1/2		12.0TTG		UA	7318	COMPOSITE	5/32		4.0TTG		UA
2011	COMP+CAN	1/8		3.0TPG (s)		UA	7319	COMPOSITE	3/16		5.0TTG		UA
2012	COMP+CAN	5/32		4.0TPG (d)		UA	7320	COMPOSITE	1/4		6.0TTG		UA
2013	COMP+CAN	3/16		5.0TPG (m)		UA	7321	COMPOSITE	1/8		3.0TPG (m)		UA
							7323	COMPOSITE	5/32		4.0TPG (m)		UA
							7322	COMPOSITE	3/16		5.0TPG (m)		UA

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Cardinal CT ; Los Angeles, CA							Cardinal IG ; Greenfield, IA						
5085	COMP+CAN	1/8		3.0TTG		UA	1827	COMP+CAN	1/8		3.0TTG		UA
5086	COMP+CAN	5/32		4.0TTG		UA	1828	COMP+CAN	5/32		4.0TTG		UA
5087	COMP+CAN	3/16		5.0TTG		UA	1829	COMP+CAN	3/16		5.0TTG		UA
5991	COMP+CAN	1/4		6.0TTG		UA	1830	COMP+CAN	1/4		6.0TTG		UA
5088	COMP+CAN	1/8		3.0TPG (s)		UA	5435	COMP+CAN	5/16		8.0TTG		UA
5089	COMP+CAN	3/16		5.0TPG (m)		UA	1841	COMP+CAN	1/8		3.0TPG (s)		UA
Cardinal CT ; Mount Airy, NC							1842	COMP+CAN	5/32		4.0TPG (d)		UA
4578	COMP+CAN	1/8		3.0TTG		UA	1843	COMP+CAN	3/16		5.0TPG (s)		UA
4579	COMP+CAN	5/32		4.0TTG		UA	Cardinal IG ; Hood River, OR						
4580	COMP+CAN	3/16		5.0TTG		UA	2831	COMP+CAN	1/8		3.0TTG		UA
8134	COMP+CAN	1/4		6.0TTG		UA	2858	COMP+CAN	5/32		4.0TTG		UA
4581	COMP+CAN	1/8		3.0TPG (s)		UA	2833	COMP+CAN	3/16		5.0TTG		UA
4742	COMP+CAN	5/32		4.0TPG (s)		UA	2834	COMP+CAN	1/4		6.0TTG		UA
4582	COMP+CAN	3/16		5.0TPG (s)		UA	7926	COMP+CAN	5/16		8.0TTG		UA
Cardinal CT ; Utica, OH							2857	COMP+CAN	1/8		3.0TPG (s)		UA
4620	COMP+CAN	1/8		3.0TTG		UA	4836	COMP+CAN	5/32		4.0TPG (d)		UA
4621	COMP+CAN	5/32		4.0TTG		UA	2859	COMP+CAN	3/16		5.0TPG (m)		UA
4622	COMP+CAN	3/16		5.0TTG		UA	Cardinal IG ; Mountain Top, PA						
5479	COMP+CAN	1/4		6.0TTG		UA	3068	COMP+CAN	1/8		3.0TTG		UA
4623	COMP+CAN	1/8		3.0TPG (m)		UA	3069	COMP+CAN	5/32		4.0TTG		UA
4624	COMP+CAN	5/32		4.0TPG (m)		UA	3070	COMP+CAN	3/16		5.0TTG		UA
4625	COMP+CAN	3/16		5.0TPG (m)		UA	3071	COMP+CAN	1/4		6.0TTG		UA
Cardinal FG ; Durant, OK							3073	COMP+CAN	1/8		3.0TPG (m)		UA
2909	COMP+CAN	1/8		3.0TTG		UA	3115	COMP+CAN	5/32		4.0TPG (s)		UA
2910	COMP+CAN	5/32		4.0TTG		UA	3072	COMP+CAN	3/16		5.0TPG (m)		UA
2911	COMP+CAN	3/16		5.0TTG		UA	Cardinal IG ; Ocala, FL						
2912	COMP+CAN	1/4		6.0TTG		UA	3505	COMPOSITE	1/8		3.0TTG		UA
Cardinal IG ; Buckeye, AZ							3506	COMPOSITE	5/32		4.0TTG		UA
6556	COMP+CAN	1/8		3.0TTG		UA	3507	COMPOSITE	3/16		5.0TTG		UA
6522	COMP+CAN	5/32		4.0TTG		UA	3508	COMPOSITE	1/4		6.0TTG		UA
6523	COMP+CAN	3/16		5.0TTG		UA	4584	COMPOSITE	1/8		3.0TPG (m)		UA
6524	COMP+CAN	1/4		6.0TTG		UA	4587	COMPOSITE	1/4		6.0TPG (s)		UA
6557	COMP+CAN	5/16		8.0TTG		UA	6100	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA
7491	COMP+CAN	1/8		3.0TPG (m)		UA	3509	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA
6525	COMP+CAN	5/32		4.0TPG (d)		UA	3510	COMPOSITE	(H)		8-12LTG (b)(A)	(.030)	UA
6559	COMP+CAN	3/16		5.0TPG (m)		UA	4362	COMPOSITE	(H)		8-12LTG (ip)(A)	(.035)	UA
Cardinal IG ; Fargo, ND							Cardinal IG ; Spring Green, WI						
2235	COMP+CAN	1/8		3.0TTG		UA	1831	COMP+CAN	1/8		3.0TTG		UA
2234	COMP+CAN	5/32		4.0TTG		UA	5910	COMP+CAN	5/32		4.0TTG		UA
2233	COMP+CAN	3/16		5.0TTG		UA	5911	COMP+CAN	3/16		5.0TTG		UA
2232	COMP+CAN	1/4		6.0TTG		UA	1834	COMP+CAN	1/4		6.0TTG		UA
7067	COMP+CAN	5/16		8.0TTG		UA	1844	COMP+CAN	1/8		3.0TPG (s)		UA
2231	COMP+CAN	1/8		3.0TPG (s)		UA	1845	COMP+CAN	5/32		4.0TPG (m)		UA
2285	COMP+CAN	5/32		4.0TPG (m)		UA	5912	COMP+CAN	3/16		5.0TPG (s)		UA
2286	COMP+CAN	3/16		5.0TPG (s)		UA	Cardinal IG ; Tomah, WI						
Cardinal IG ; Fremont, IN							2317	COMP+CAN	1/8		3.0TTG		UA
2176	COMP+CAN	1/8		3.0TTG		UA	2318	COMP+CAN	5/32		4.0TTG		UA
2177	COMP+CAN	5/32		4.0TTG		UA	2319	COMP+CAN	3/16		5.0TTG		UA
2178	COMP+CAN	3/16		5.0TTG		UA	2320	COMP+CAN	1/4		6.0TTG		UA
2179	COMP+CAN	1/4		6.0TTG		UA	6069	COMP+CAN	5/16		8.0TTG		UA
2203	COMP+CAN	1/8		3.0TPG (s)		UA	2321	COMP+CAN	1/8		3.0TPG (m)		UA
2204	COMP+CAN	5/32		4.0TPG (m)		UA	2322	COMP+CAN	5/32		4.0TPG (d)		UA
2205	COMP+CAN	3/16		5.0TPG (s)		UA	2323	COMP+CAN	3/16		5.0TPG (d)		UA

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Cardinal IG ; Vinton, VA							Cardinal TG ; Tomah, WI						
2919	COMP+CAN	1/8		3.0TTG		UA	1804	COMP+CAN	1/8		3.0TTG		UA
2920	COMP+CAN	5/32		4.0TTG		UA	1805	COMP+CAN	5/32		4.0TTG		UA
2921	COMP+CAN	3/16		5.0TTG		UA	1806	COMP+CAN	3/16		5.0TTG		UA
2922	COMP+CAN	1/4		6.0TTG		UA	1807	COMP+CAN	1/4		6.0TTG		UA
2923	COMP+CAN	1/8		3.0TPG (s)		UA	4881	COMP+CAN	5/16		8.0TTG (IN)		UA
2924	COMP+CAN	5/32		4.0TPG (d)		UA	Carey Glass UC ; Nenagh, Co. Tipperary						
3619	COMP+CAN	3/16		5.0TPG (s)		UA	5998	COMP+CAN	1/4		6.0TTG		UA
Cardinal IG ; Waxahachie, TX							5999	COMP+CAN	5/16		8.0TTG		UA
2328	COMP+CAN	1/8		3.0TTG		UA	6000	COMP+CAN	3/8		10.0TTG		UA
2329	COMP+CAN	5/32		4.0TTG		UA	7333	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.060)	UA
2330	COMP+CAN	3/16		5.0TTG		UA	6001	COMP+CAN	(H)		12-16+LTG (b)(A)	(.060)	UA
2331	COMP+CAN	1/4		6.0TTG		UA	Cat-I Manufacturing, Inc. ; South Elgin, IL						
2397	COMP+CAN	1/8		3.0TPG (m)		UA	8076	COMP+CAN	1/8		3.0TTG		24x36 A
4091	COMP+CAN	5/32		4.0TPG (d)		UA	5755	COMP+CAN	5/32		4.0TTG		24x36 A
2399	COMP+CAN	3/16		5.0TPG (m)		UA	Central Valley Glass & Screen, Inc. ; Sacramento, CA						
Cardinal LG ; Amery, WI							7551	COMPOSITE	1/8		3.0TTG		UA
5193	COMP+CAN	3/16		5.0TTG		UA	7552	COMPOSITE	5/32		4.0TTG		UA
4841	COMP+CAN	1/4		6.0TTG		UA	7553	COMPOSITE	3/16		5.0TTG		UA
4842	COMP+CAN	5/16		8.0TTG		UA	7554	COMPOSITE	1/4		6.0TTG		UA
4843	COMP+CAN	3/8		10.0TTG		UA	7555	COMPOSITE	3/8		10.0TTG		UA
4844	COMP+CAN	1/2		12.0TTG		UA	7556	COMPOSITE	1/2		12.0TTG		UA
6484	COMP+CAN	5/8		16.0TTG (IN)		UA	CGMI Acquisition Company LLC dba Clearlight Glass and Mirror ; Kernersville, NC						
2976	COMP+CAN	(S)		5-6LTG (b)(A)	(.030)	UA	7809	COMP+CAN	1/8		3.0TTG		UA
4350	COMP+CAN	(S)		5-6LTG (ip)(A)	(.035)	UA	7239	COMP+CAN	3/16		5.0TTG		UA
4120	COMP+CAN	(S)		5LTG (b)(A)	(.015)(C1)	UB	7240	COMP+CAN	1/4		6.0TTG		UA
4351	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA	7243	COMP+CAN	3/8		10.0TTG		UA
2462	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	7241	COMP+CAN	1/2		12.0TTG		UA
Cardinal LG Northeast ; Jessup, PA							Changshu Fardglass Co. Ltd. ; Changshu, Jiangsu						
7496	COMP+CAN	1/8		3.0TTG		UA	6684	COMP+CAN	1/8		3.0TTG		UA
7497	COMP+CAN	5/32		4.0TTG		UA	ChangShu MayBo Glass Co., Ltd ; Changshu, Jiangsu, China						
7498	COMP+CAN	3/16		5.0TTG		UA	7115	COMPOSITE	1/8		3.0TTG		UA
7499	COMP+CAN	1/4		6.0TTG		UA	7114	COMPOSITE	5/32		4.0TTG		UA
7500	COMP+CAN	5/16		8.0TTG		UA	7116	COMPOSITE	3/16		5.0TTG		UA
7549	COMP+CAN	3/8		10.0TTG		UA	Changshu Weier Glass Products Co. Ltd. ; Changshu, Jiangsu, China						
7550	COMP+CAN	1/2		12.0TTG		UA	5351	COMPOSITE	1/8		3.0TTG		UA
5224	COMP+CAN	(S)		5-6LTG (b)(A)	(.030)	UA	5352	COMPOSITE	5/32		4.0TTG		UA
6617	COMP+CAN	(S)		5-6LTG (ip)(A)	(.035)	UA	5353	COMPOSITE	3/16		5.0TTG		UA
5225	COMP+CAN	(H)		8-12LTG (b)(A)	(.030)	UA	5354	COMPOSITE	1/4		6.0TTG		UA
6618	COMP+CAN	(H)		8-12LTG (ip)(A)	(.035)	UA	Changshu Xingfu Glass Building Material Co., LTD ; Changshu, Jiangsu, China						
Cardinal Tempering ; Louisville, KY							4657	COMP+CAN	1/8		3.0TTG		UA
3871	COMPOSITE	5/32		4.0TTG		UA	5151	COMP+CAN	5/16		8.0TTG		UA
3872	COMPOSITE	3/16		5.0TTG		UA	5152	COMP+CAN	3/8		10.0TTG		UA
3873	COMPOSITE	1/4		6.0TTG		UA							
3874	COMPOSITE	3/8		10.0TTG		UA							
3875	COMPOSITE	1/2		12.0TTG		UA							
Cardinal TG ; Chehalis, WA													
3455	COMP+CAN	1/8		3.0TTG		UA							
3456	COMP+CAN	5/32		4.0TTG		UA							
3458	COMP+CAN	3/16		5.0TTG		UA							
3459	COMP+CAN	1/4		6.0TTG		UA							

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Changshu ZhongXin Building Materials Co., Ltd. ; Changshu, Jiangsu, China							Commercial Insulating Glass Co. ; Cumberland City, TN						
2432	COMP+CAN	1/8		3.0TTG		UA	3806	COMPOSITE	1/8		3.0TTG		UA
6191	COMP+CAN	5/32		4.0TTG		UA	3807	COMPOSITE	3/16		5.0TTG		UA
6475	COMP+CAN	3/16		5.0TTG		UA	3808	COMPOSITE	1/4		6.0TTG		UA
6499	COMP+CAN	1/4		6.0TTG		UA	Compagnie de Portes Énergétique EDC (Energy Door Company) ; L'Assomption, Quebec						
6500	COMP+CAN	5/16		8.0TTG		UA	7192	COMP+CAN	5/32		4.0TTG		UA
4363	COMP+CAN	(H)		8LTG (b)(A)	(.090)	UA	Complete Line Glass Wholesalers, Inc. ; San Antonio, Texas						
Changshu Zhouxing Glass Co. Ltd. ; Changshu, Jiangsu Province, China							7565	COMPOSITE	1/8		3.0TTG		UA
4936	COMP+CAN	1/8		3.0TTG		UA	7566	COMPOSITE	5/32		4.0TTG		UA
Chicago Tempered Glass, Inc. ; Chicago, IL							7567	COMPOSITE	3/16		5.0TTG		UA
3086	COMPOSITE	5/32		4.0TTG		UA	7568	COMPOSITE	1/4		6.0TTG		UA
3087	COMPOSITE	3/16		5.0TTG		UA	7569	COMPOSITE	3/8		10.0TTG		UA
3088	COMPOSITE	1/4		6.0TTG		UA	7570	COMPOSITE	3/16		5.0TPG (m)		UA
3089	COMPOSITE	3/8		10.0TTG		UA	7572	COMPOSITE	3/8		10.0TPG (s)		UA
3090	COMPOSITE	1/2		12.0TTG		UA	Consolidated Glass Corp. ; New Castle, PA						
6714	COMPOSITE	(H)		12LTG (ip)(A) (IN)	(.035)	UA	1998	COMP+CAN	1/8		3.0TTG		UA
Chongqing SYP Engineering Glass Co., Ltd. ; Chongqing, China							1999	COMP+CAN	5/32		4.0TTG		UA
6810	COMP+CAN	1/4		6.0TTG		UA	2005	COMP+CAN	3/16		5.0TTG		UA
6811	COMP+CAN	5/16		8.0TTG		UA	2002	COMP+CAN	1/4		6.0TTG		UA
6812	COMP+CAN	3/8		10.0TTG		UA	3635	COMP+CAN	5/16		8.0TTG		UA
6813	COMP+CAN	1/2		12.0TTG		UA	2003	COMP+CAN	3/8		10.0TTG		UA
6815	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.060)	UA	2004	COMP+CAN	1/2		12.0TTG		UA
6814	COMP+CAN	(H)		12-16+LTG (b)(A)	(.030)	UA	2355	COMP+CAN	5/32		4.0TPG (m)		UA
Classy Glass Specialties Co., Ltd ; Dongguan, Guangdong							2354	COMP+CAN	3/16		5.0TPG (m)		UA
5159	COMPOSITE	1/4		6.0TTG		UA	4714	COMP+CAN	1/4		6.0TPG (m)		UA
5160	COMPOSITE	5/16		8.0TTG		UA	4785	COMP+CAN	3/8		10.0TPG (s)		UA
5161	COMPOSITE	3/8		10.0TTG		UA	Contemporary Glass Tempering, LLC ; Houston, TX						
5162	COMPOSITE	1/2		12.0TTG		UA	8040	COMPOSITE	1/8		3.0TTG		UA
7634	COMPOSITE	(H)		25+LTG (b)(A)	(.060)	UA	8041	COMPOSITE	5/32		4.0TTG		UA
Cleer Vision Tempered Glass ; Elkhart, IN							8042	COMPOSITE	3/16		5.0TTG		UA
4546	COMP+CAN	1/8		3.0TTG		UA	8043	COMPOSITE	1/4		6.0TTG		UA
4547	COMP+CAN	5/32		4.0TTG		UA	8044	COMPOSITE	3/8		10.0TTG		UA
7630	COMP+CAN	1/4		6.0TTG		UA	8045	COMPOSITE	1/2		12.0TTG		UA
Clinton Glass Company (Middlebrook Pike) ; Knoxville, TN							Contour Industries, Inc. ; Surgoinsville, TN						
7543	COMPOSITE	1/4		6.0TTG		UA	1680	COMP+CAN	1/8		3.0TTG		UA
7831	COMPOSITE	5/16		8.0TTG		UA	4285	COMP+CAN	5/32		4.0TTG		UA
7544	COMPOSITE	3/8		10.0TTG		UA	1678	COMP+CAN	3/16		5.0TTG		UA
7545	COMPOSITE	1/2		12.0TTG		UA	1677	COMP+CAN	1/4		6.0TTG		UA
Colorkote CT, LLC ; Stratford, CT							4701	COMP+CAN	5/16		8.0TTG		UA
7095	COMP+CAN	(H)		10-12LTG (ev)(A)	(.060)	UA	4702	COMP+CAN	3/8		10.0TTG		UA
Columbia Commercial Bldg Prod. ; Rockwall, TX							4703	COMP+CAN	1/8		3.0TPG (s)		UA
4921	COMP+CAN	1/4		6.0TTG		UA	4704	COMP+CAN	5/32		4.0TPG (s)(IN)		UA
5615	COMP+CAN	3/8		10.0TTG		UA	4705	COMP+CAN	3/16		5.0TPG (s)		UA
5616	COMP+CAN	1/2		12.0TTG		UA	Contract Glass ; Billerica, MA						
Comercial Dialum SA ; Santiago, Chile							4970	COMPOSITE	1/8		3.0TTG		UA
5938	COMPOSITE	(H)		12LTG (ip)(A)	(.035)	UA	4971	COMPOSITE	5/32		4.0TTG		UA
							4972	COMPOSITE	3/16		5.0TTG		UA
							4973	COMPOSITE	1/4		6.0TTG		UA
							4974	COMPOSITE	3/8		10.0TTG		UA
							4975	COMPOSITE	1/2		12.0TTG		UA

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Contractors Wardrobe ; Valencia, CA							CS ECO Glass ; Negeri Sembilan, Malaysia						
3464	COMP+CAN	1/8		3.0TTG		UA	6867	COMPOSITE	3/16		5.0TTG		UA
3465	COMP+CAN	5/32		4.0TTG		UA	6868	COMPOSITE	1/4		6.0TTG		UA
3466	COMP+CAN	3/16		5.0TTG		UA	6869	COMPOSITE	5/16		8.0TTG		UA
3467	COMP+CAN	1/4		6.0TTG		UA	6870	COMPOSITE	3/8		10.0TTG		UA
3468	COMP+CAN	5/16		8.0TTG		UA	6871	COMPOSITE	1/2		12.0TTG		UA
3469	COMP+CAN	3/8		10.0TTG		UA	Curved Glass Creations, LLC ; Pompano Beach, FL						
3470	COMP+CAN	1/2		12.0TTG		UA	7113	COMPOSITE	(H)		10-16+LTG (ev)(A)	(.060)	UA
3472	COMP+CAN	3/4		19.0TTG		UA	Custom Glass Products Inc. ; Weston, WI						
3473	COMP+CAN	1/8		3.0TPG (m)		UA	4002	COMPOSITE	1/4		6.0TTG		UA
3474	COMP+CAN	5/32		4.0TPG (m)		UA	6671	COMPOSITE	1/2		12.0TTG		UA
3475	COMP+CAN	3/16		5.0TPG (m)		UA	D3 Glass, LLC ; Fort Myers, FL						
3476	COMP+CAN	1/4		6.0TPG (s)		UA	7627	COMPOSITE	1/4		6.0TTG		UA
3477	COMP+CAN	3/8		10.0TPG (s)		UA	7628	COMPOSITE	3/8		10.0TTG		UA
Control Glass, A&S, S.L. ; Teruel,							7629	COMPOSITE	1/2		12.0TTG		UA
7791	COMP+CAN	5/32		4.0TTG		UA	7626	COMPOSITE	3/8		10.0TPG (s)		UA
7792	COMP+CAN	1/4		6.0TTG		UA	7625	COMPOSITE	(H)		12LTG (ev)(A)	(.030)	UA
7793	COMP+CAN	3/8		10.0TTG		UA	Dalian Huaying Glass Limited Liability Co. ; Liaoning, China						
7988	COMP+CAN	*		12.0TTG (4)		UA	5260	COMP+CAN	1/8		3.0TTG		UA
7794	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	6639	COMP+CAN	5/32		4.0TTG		UA
7795	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.060)	UA	5261	COMP+CAN	3/16		5.0TTG		UA
Coral Industries Glass Division ; Tuscaloosa, AL							Dallas Flat Glass ; Carrollton, TX						
1910	COMPOSITE	3/16		5.0TTG		UA	4790	COMPOSITE	1/8		3.0TTG		UA
1911	COMPOSITE	1/4		6.0TTG		UA	4763	COMPOSITE	3/16		5.0TTG		UA
2144	COMPOSITE	3/8		10.0TTG		UA	3701	COMPOSITE	1/4		6.0TTG		UA
2145	COMPOSITE	1/2		12.0TTG		UA	4566	COMPOSITE	3/8		10.0TTG		UA
2644	COMPOSITE	3/4		19.0TTG		UA	4567	COMPOSITE	1/2		12.0TTG		UA
1964	COMPOSITE	3/16		5.0TPG (d)		UA	8174	COMPOSITE	3/4		19.0TTG		UA
2944	COMPOSITE	1/4		6.0TPG (d)		UA	Denver Glass Interiors, Inc. ; Englewood, CO						
2945	COMPOSITE	3/8		10.0TPG (d)		UA	3865	COMPOSITE	3/16		5.0TTG		UA
Core Fabrication Inc. ; Edison, NJ							3866	COMPOSITE	1/4		6.0TTG		UA
8145	COMP+CAN	1/4		6.0TTG		UA	3867	COMPOSITE	3/8		10.0TTG		UA
8146	COMP+CAN	3/8		10.0TTG		UA	3868	COMPOSITE	1/2		12.0TTG		UA
CRICURSA SA ; Balaguer, Lleida							7582	COMPOSITE	3/16		5.0TPG (m)		UA
5695	COMPOSITE	1/4		6.0TTG		UA	4507	COMPOSITE	1/4		6.0TPG (m)		UA
6840	COMPOSITE	5/16		8.0TTG		UA	4508	COMPOSITE	3/8		10.0TPG (s)		UA
5697	COMPOSITE	3/8		10.0TTG		UA	6916	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA
5698	COMPOSITE	1/2		12.0TTG		UA	6902	COMPOSITE	(H)		8-16+LTG (ip)(A)	(.060)	UA
5699	COMPOSITE	(H)		12-16+LTG (b)(A)	(.015)	UA	Deqing Sanxing Plastic Chemical Co. Ltd. ; Huzhou, Zhejiang, China						
5878	COMPOSITE	(H)		12-16+LTG (ip)(A)	(.035)	UA	4055	COMPOSITE	1/8		3.0TTG		UA
Crystal Art Glass Inc. ; Brooklyn, NY							4056	COMPOSITE	5/32		4.0TTG		UA
6951	COMP+CAN	(H)		10-16+LTG (ev)(A)	(.070)	UA	4057	COMPOSITE	3/16		5.0TTG		UA
Crystal Tempering, Inc. ; Debary, FL							4146	COMPOSITE	1/4		6.0TTG		UA
6209	COMPOSITE	3/16		5.0TTG		UA	4147	COMPOSITE	3/8		10.0TTG		UA
6210	COMPOSITE	1/4		6.0TTG		UA							
6211	COMPOSITE	3/8		10.0TTG		UA							
6212	COMPOSITE	1/2		12.0TTG		UA							
6214	COMPOSITE	3/16		5.0TPG (m)		UA							
6215	COMPOSITE	1/4		6.0TPG (s)		UA							
6216	COMPOSITE	3/8		10.0TPG (s)		UA							

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Dillmeier Enterprise, Inc. ; Van Buren, AR							Downey Glass ; Pompano Beach, FL						
4838	COMPOSITE	1/8		3.0TTG		UA	2661	COMPOSITE	3/16		5.0TTG		UA
3912	COMPOSITE	3/16		5.0TTG		UA	2662	COMPOSITE	1/4		6.0TTG		UA
3913	COMPOSITE	1/4		6.0TTG		UA	5554	COMPOSITE	5/16		8.0TTG		UA
4839	COMPOSITE	5/16		8.0TTG		UA	2663	COMPOSITE	3/8		10.0TTG		UA
3914	COMPOSITE	3/8		10.0TTG		UA	2664	COMPOSITE	1/2		12.0TTG		UA
3915	COMPOSITE	1/2		12.0TTG		UA	2665	COMPOSITE	3/4		19.0TTG		UA
3916	COMPOSITE	5/8		16.0TTG		UA	3487	COMPOSITE	3/16		5.0TPG (s)		UA
3917	COMPOSITE	3/4		19.0TTG		UA	4626	COMPOSITE	3/8		10.0TPG (s)		UA
7947	COMP+CAN	(S)		6LTG (ev)(A)	(.030)	UA	5121	COMPOSITE	(S)		6LTG (ip)(A)	(.035)	UA
8110	COMP+CAN	(H)		10LTG (ev)(A)	(.035)	UA	5122	COMPOSITE	(H)		10-16+LTG (ip)(A)	(.035)	UA
8088	COMP+CAN	(H)		10LTG (ev)(T)	(.030)	UA	Eagle Valley Glass ; Gypsum, CO						
Dlubak Specialty Glass Corporation ; Blairsville, PA							6672	COMPOSITE	3/16		5.0TTG		UA
3017	COMPOSITE	1/4		6.0TTG		UA	6673	COMPOSITE	1/4		6.0TTG		UA
3018	COMPOSITE	1/2		12.0TTG		UA	6674	COMPOSITE	3/8		10.0TTG		UA
3019	COMPOSITE	3/4		19.0TTG		UA	6675	COMPOSITE	1/2		12.0TTG		UA
5965	COMPOSITE	1/4		6.0TBG		UA	Echols Glass and Mirror, Inc. ; Buford, GA						
7016	COMPOSITE	(H)		12LTG (ip)(A)	(.060)	UA	7712	COMPOSITE	1/8		3.0TTG		UA
6234	COMPOSITE	(H)		12LTG (b)(A)	(.060)	UA	6314	COMPOSITE	3/16		5.0TTG		UA
Dolphin Glass Specialists, LLC ; Hialeah, FL							6315	COMPOSITE	1/4		6.0TTG		UA
4729	COMPOSITE	(H)		12LTG (b)(A)	(.030)	UA	6316	COMPOSITE	3/8		10.0TTG		UA
Dolphin Temper Glass LLC ; Miami Gardens, FL							6317	COMPOSITE	1/2		12.0TTG		UA
7840	COMPOSITE	1/4		6.0TTG		UA	6318	COMPOSITE	3/16		5.0TPG (m)		UA
Dongguan CSG Architectural Glass Co., Ltd. ; Dongguan, Guangdong, China							6319	COMPOSITE	3/8		10.0TPG (s)		UA
3932	COMP+CAN	5/32		4.0TTG		UA	Eckelt Glas GmbH ; Steyr, Austria						
3933	COMP+CAN	3/16		5.0TTG		UA	2850	COMPOSITE	1/4		6.0TTG		UA
3934	COMP+CAN	1/4		6.0TTG		UA	2851	COMPOSITE	5/16		8.0TTG		UA
3935	COMP+CAN	5/16		8.0TTG		UA	2852	COMPOSITE	3/8		10.0TTG		UA
3936	COMP+CAN	3/8		10.0TTG		UA	2853	COMPOSITE	*		12.0TTG (4)		UA
3937	COMP+CAN	1/2		12.0TTG		UA	2854	COMPOSITE	*		15.0TTG (4)		UA
3938	COMP+CAN	*		15.0TTG (4)		UA	2855	COMPOSITE	3/4		19.0TTG		UA
3939	COMP+CAN	3/4		19.0TTG		UA	6901	COMPOSITE	(H)		10-16+LTG (ip)(A)	(.060)	UA
4167	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	6825	COMPOSITE	(H)		8,12,16+LTG (b)(A)	(.030)	UA
Dongguan Dehui Industrial Co., LTD. ; Dongguan City, Guangdong							Edge Tempering ; Hialeah, FL						
7637	COMP+CAN	1/8		3.0TTG		UA	7280	COMPOSITE	3/16		5.0TTG		UA
Dongguan Dongfa Glass Product Co., Ltd ; Dongguan, Guangdong, China							6297	COMPOSITE	1/4		6.0TTG		UA
4132	COMP+CAN	5/16		8.0TTG		UA	6298	COMPOSITE	3/8		10.0TTG		UA
4125	COMP+CAN	3/8		10.0TTG		UA	6299	COMPOSITE	1/2		12.0TTG		UA
4126	COMP+CAN	1/2		12.0TTG		UA	EFCO Corporation ; Monett, MO						
7620	COMP+CAN	*		15.0TTG (4)		UA	4121	COMPOSITE	1/8		3.0TTG		UA
7621	COMP+CAN	3/4		19.0TTG		UA	1901	COMPOSITE	3/16		5.0TTG		UA
4123	COMP+CAN	(H)		12LTG (b)(A)	(.030)	UA	1902	COMPOSITE	1/4		6.0TTG		UA
4124	COMP+CAN	(H)		16+LTG (b)(A)	(.030)	UA	4154	COMPOSITE	5/16		8.0TTG		UA
							2143	COMPOSITE	3/16		5.0TPG (s)		UA
							EFI ; Kernersville, NC						
							8085	COMP+CAN	5/32		4.0TTG		UA
							5026	COMP+CAN	1/4		6.0TTG		UA
							5210	COMP+CAN	3/8		10.0TTG		UA
							5211	COMP+CAN	1/2		12.0TTG		UA
							Engineered Glass Products, L.L.C. ; Chicago, IL						
							4388	COMPOSITE	1/8		3.0TTG		26x72A
							2589	COMPOSITE	5/32		4.0TTG		26x72A

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Epta S.P.A. ; Limana, Belluno							Foshan Ganghuasheng Tempered Glass Co; Ltd ; Foshan, Guangdong						
7934	COMP+CAN	5/32		4.0TTG		UA	7713	COMP+CAN	5/32		4.0TTG		UA
Erdem Dis Ticaret A.S. ; Istanbul, Pendik							7714	COMP+CAN	3/16		5.0TTG		UA
7609	COMP+CAN	1/4		6.0TTG		UA	8163	COMP+CAN	1/4		6.0TTG		UA
7610	COMP+CAN	5/16		8.0TTG		UA	7557	COMP+CAN	5/16		8.0TTG		UA
7611	COMP+CAN	3/8		10.0TTG		UA	7558	COMP+CAN	3/8		10.0TTG		UA
7612	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA	7559	COMP+CAN	1/2		12.0TTG		UA
Euroglas-De Landtsheer NV ; Bornem,							7715	COMP+CAN	3/16		5.0TBG		UA
8147	COMPOSITE	1/4		6.0TTG		UA	7716	COMP+CAN	1/4		6.0TBG		UA
8148	COMPOSITE	5/16		8.0TTG		UA	7560	COMP+CAN	5/16		8.0TBG		UA
8149	COMPOSITE	3/8		10.0TTG		UA	7561	COMP+CAN	3/8		10.0TBG		UA
8150	COMPOSITE	1/2		12.0TTG		UA	Foshan Gaoming Yaqi Toughened Glass ; Foshan City, Guangdong Province						
Extrusiones de Aluminio, S.A. ; Santo Domingo, Heredia							6119	COMP+CAN	1/4		6.0TTG		UA
8157	COMPOSITE	1/4		6.0TTG		UA	6120	COMP+CAN	5/16		8.0TTG		UA
8158	COMPOSITE	3/8		10.0TTG		UA	6121	COMP+CAN	3/8		10.0TTG		UA
8159	COMPOSITE	*		12.0TTG (4)		UA	6122	COMP+CAN	1/2		12.0TTG		UA
8161	COMPOSITE	(H)		10-16+LTG (b)(A)	(.030)	UA	7700	COMP+CAN	1/4		6.0TPG (s)		UA
8160	COMPOSITE	(H)		10-16+LTG (ip)(A)	(.035)	UA	7717	COMP+CAN	5/16		8.0TPG (s)		UA
Fairis C.A. ; Ambato, Tungurahua, Ecuador							7701	COMP+CAN	1/4		6.0TBP (s)		UA
4425	COMPOSITE	5/32		4.0TTG		UA	6123	COMP+CAN	1/4		6.0TBG		UA
4426	COMPOSITE	3/16		5.0TTG		UA	6124	COMP+CAN	5/16		8.0TBG		UA
4427	COMPOSITE	1/4		6.0TTG		UA	Fountain Glass Inc. ; Lenexa, KS						
4428	COMPOSITE	5/16		8.0TTG		UA	7105	COMPOSITE	3/16		5.0TTG		UA
4429	COMPOSITE	3/8		10.0TTG		UA	7101	COMPOSITE	1/4		6.0TTG		UA
4722	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA	7106	COMPOSITE	3/8		10.0TTG		UA
4430	COMPOSITE	(H)		10-12LTG (b)(A)	(.030)	UA	7104	COMPOSITE	1/2		12.0TTG		UA
Flat Glass Distributors ; Jacksonville, FL							7102	COMPOSITE	3/16		5.0TPG (m)		UA
3822	COMPOSITE	1/8		3.0TTG		UA	7100	COMPOSITE	1/4		6.0TPG (s)		UA
3823	COMPOSITE	3/16		5.0TTG		UA	7103	COMPOSITE	3/8		10.0TPG (s)		UA
3824	COMPOSITE	1/4		6.0TTG		UA	Fujian Chengda Glass Co., Ltd ; Longhai, Zhangzhou						
3825	COMPOSITE	3/8		10.0TTG		UA	7182	COMPOSITE	1/8		3.0TTG		UA
3826	COMPOSITE	1/2		12.0TTG		UA	7183	COMPOSITE	5/32		4.0TTG		UA
3828	COMPOSITE	1/8		3.0TPG (m)		UA	7874	COMPOSITE	3/16		5.0TTG		UA
3830	COMPOSITE	3/16		5.0TPG (m)		UA	7185	COMPOSITE	1/4		6.0TTG		UA
3831	COMPOSITE	1/4		6.0TPG (s)		UA	7186	COMPOSITE	5/16		8.0TTG		UA
4638	COMPOSITE	3/8		10.0TPG (s)		UA	7187	COMPOSITE	3/8		10.0TTG		UA
Flat Glass Group Co., Ltd. ; Jiaxing, Zhejiang, China							7188	COMPOSITE	1/2		12.0TTG		UA
5521	COMP+CAN	3/16		5.0TTG		UA	Fujian Tider Glass Co., Ltd. ; Xiamen, Fujian						
5522	COMP+CAN	1/4		6.0TTG		UA	7784	COMPOSITE	5/32		4.0TTG		UA
5523	COMP+CAN	5/16		8.0TTG		UA	7785	COMPOSITE	3/16		5.0TTG		UA
5524	COMP+CAN	3/8		10.0TTG		UA	7786	COMPOSITE	1/4		6.0TTG		UA
6898	COMP+CAN	5/32		4.0TPG (m)		UA	7787	COMPOSITE	5/16		8.0TTG		UA
7529	COMP+CAN	1/4		6.0TPG (m)		UA	7788	COMPOSITE	3/8		10.0TTG		UA
5526	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA	7789	COMPOSITE	1/2		12.0TTG		UA

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Fujian Xihe Sanitary Ware Technology Co., Ltd ; Nan an Fujian China							Gin Jye Glass Co., Ltd. ; Taiwan,						
8023	COMPOSITE	5/32		4.0TTG		UA	7868	COMP+CAN	3/16		5.0TTG		UA
8024	COMPOSITE	3/16		5.0TTG		UA	7869	COMP+CAN	(S)		6LTG (b)(A)	(.015)	UA
8025	COMPOSITE	1/4		6.0TTG		UA	GLAAM Co., Ltd. ; South Korea						
8026	COMPOSITE	5/16		8.0TTG		UA	7928	COMP+CAN	(H)		10LTG (lu)(A)	(.120)	UB
8029	COMPOSITE	1/4		6.0TPG (s)		UA	GLASPRO ; Santa Fe Springs, CA						
8030	COMPOSITE	3/16		5.0TBG		UA	6047	COMP+CAN	1/4		6.0TTG		UA
8031	COMPOSITE	1/4		6.0TBG		UA	6048	COMP+CAN	1/2		12.0TTG		UA
8032	COMPOSITE	5/16		8.0TBG		UA	6050	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
Galaxy Glass & Stone ; Fairfield, NJ							Glass and Mirror Craft ; Wixom, MI						
5752	COMP+CAN	(H)		8-16+LTG (ev)(A)	(.060)	UA	4198	COMP+CAN	1/8		3.0TTG		UA
3661	COMP+CAN	(H)		8-16+LTG (lu)(A)	(.060)	UA	5116	COMP+CAN	5/32		4.0TTG		UA
Gardner Glass Products Inc. ; North Wilkesboro, NC							4199	COMP+CAN	3/16		5.0TTG		UA
7436	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	4200	COMP+CAN	1/4		6.0TTG		UA
7437	COMP+CAN	(H)		12LTG (ip)(A)	(.060)	UA	5598	COMP+CAN	3/8		10.0TTG		UA
7438	COMP+CAN	(H)		16+LTG (b)(A)	(.030)	UA	4202	COMP+CAN	1/2		12.0TTG		UA
Garibaldi Glass Ind. Inc. ; Burnaby, BC							4203	COMP+CAN	5/8		16.0TTG		UA
5124	COMP+CAN	3/16		5.0TTG		UA	4204	COMP+CAN	3/4		19.0TTG		UA
4419	COMP+CAN	1/4		6.0TTG		UA	4924	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.035)	UA
5219	COMP+CAN	5/16		8.0TTG		UA	Glass Depot Inc. ; Opa Locka, FL						
4420	COMP+CAN	3/8		10.0TTG		UA	7180	COMPOSITE	3/16		5.0TTG		UA
4421	COMP+CAN	1/2		12.0TTG		UA	7181	COMPOSITE	1/4		6.0TTG		UA
5125	COMP+CAN	*		15.0TTG (4)		UA	6633	COMPOSITE	3/8		10.0TTG		UA
4422	COMP+CAN	3/4		19.0TTG		UA	6634	COMPOSITE	1/2		12.0TTG		UA
7380	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	Glass Design of Miami, Inc. ; Medley, FL						
6767	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA	7145	COMPOSITE	1/4		6.0TTG		UA
6766	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	7144	COMPOSITE	3/8		10.0TTG		UA
6768	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA	7143	COMPOSITE	1/2		12.0TTG		UA
General Glass ; Vancouver, WA							Glass Enterprises, Inc. ; Bensalem, PA						
4031	COMPOSITE	1/8		3.0TTG		UA	4628	COMPOSITE	3/16		5.0TTG		UA
4032	COMPOSITE	5/32		4.0TTG		UA	4629	COMPOSITE	1/4		6.0TTG		UA
4033	COMPOSITE	3/16		5.0TTG		UA	6597	COMPOSITE	3/8		10.0TTG		UA
4034	COMPOSITE	1/4		6.0TTG		UA	6598	COMPOSITE	1/2		12.0TTG		UA
7710	COMPOSITE	3/8		10.0TTG		UA	Glassbel Baltic ; Klaipeda, Lithuania						
5751	COMPOSITE	1/2		12.0TTG		UA	6704	COMPOSITE	5/32		4.0TTG		UA
5750	COMPOSITE	1/8		3.0TPG (s)		UA	6705	COMPOSITE	3/16		5.0TTG		UA
7478	COMPOSITE	3/16		5.0TPG (m)		UA	6706	COMPOSITE	1/4		6.0TTG		UA
GGI Glass Distributors Corp. ; Secaucus, NJ							6707	COMPOSITE	5/16		8.0TTG		UA
2928	COMPOSITE	5/32		4.0TTG (IN)		UA	6708	COMPOSITE	3/8		10.0TTG		UA
2226	COMPOSITE	3/16		5.0TTG		UA	6709	COMPOSITE	1/2		12.0TTG		UA
2227	COMPOSITE	1/4		6.0TTG		UA	7522	COMPOSITE	*		15.0TTG (4)		UA
4248	COMPOSITE	5/16		8.0TTG		UA	7523	COMPOSITE	3/4		19.0TTG		UA
2282	COMPOSITE	3/8		10.0TTG		UA	7524	COMPOSITE	(H)		8-16+LTG (ip)(A)	(.035)	UA
2228	COMPOSITE	1/2		12.0TTG		UA	8049	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA
3857	COMPOSITE	5/8		16.0TTG		UA							
3858	COMPOSITE	3/4		19.0TTG		UA							
4774	COMPOSITE	1		25.0TTG (IN)		UA							
3970	COMPOSITE	5/32		4.0TPG (s)(IN)		UA							
3971	COMPOSITE	3/16		5.0TPG (m)		UA							
3972	COMPOSITE	1/4		6.0TPG (m)		UA							
3973	COMPOSITE	3/8		10.0TPG (s)		UA							
3974	COMPOSITE	1/2		12.0TPG (s)(IN)		UA							

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GlassecViracon ; Nazaré Paulista, São Paulo							Glasswerks GWLA- East ; South Gate, CA						
7927	COMP+CAN	5/32		4.0TTG		UA	4804	COMPOSITE	1/8		3.0TTG		UA
6992	COMP+CAN	3/16		5.0TTG		UA	5882	COMPOSITE	5/32		4.0TTG		UA
6993	COMP+CAN	1/4		6.0TTG		UA	4805	COMPOSITE	3/16		5.0TTG		UA
6994	COMP+CAN	5/16		8.0TTG		UA	4806	COMPOSITE	1/4		6.0TTG		UA
6995	COMP+CAN	3/8		10.0TTG		UA	5883	COMPOSITE	3/8		10.0TTG		UA
6996	COMP+CAN	1/2		12.0TTG		UA	5884	COMPOSITE	1/2		12.0TTG		UA
6998	COMP+CAN	(H)		8,16+LTG (ip)(A)	(.035)	UA	6921	COMPOSITE	5/8		16.0TTG		UA
6997	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	5885	COMPOSITE	3/4		19.0TTG		UA
7084	COMP+CAN	(H)		12LTG (ip)(A)	(.060)	UA	7074	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA
GlassFab Tempering Services Inc. Holly Drive ; Tracy, CA							5886	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA
6118	COMPOSITE	1/8		3.0TTG		UA	6057	COMPOSITE	(H)		8-16+LTG (ip)(A)	(.035)	UA
5986	COMPOSITE	3/16		5.0TTG		UA	Glasswerks GWT ; Temecula, CA						
7024	COMPOSITE	1/4		6.0TTG		UA	6095	COMP+CAN	3/16		5.0TTG		UA
5988	COMPOSITE	3/8		10.0TTG		UA	6096	COMP+CAN	1/4		6.0TTG		UA
5989	COMPOSITE	1/2		12.0TTG		UA	6097	COMP+CAN	3/8		10.0TTG		UA
5990	COMPOSITE	3/4		19.0TTG		UA	6098	COMP+CAN	1/2		12.0TTG		UA
GlassFab Tempering Services, Inc. Mariani Ct. ; Tracy, CA							Glaz-Tech Industries, Inc. ; Albuquerque, NM						
7799	COMPOSITE	1/8		3.0TTG		UA	6589	COMPOSITE	1/8		3.0TTG		UA
4889	COMPOSITE	3/16		5.0TTG		UA	6590	COMPOSITE	3/16		5.0TTG		UA
4891	COMPOSITE	1/4		6.0TTG		UA	6594	COMPOSITE	1/4		6.0TTG		UA
7023	COMPOSITE	3/8		10.0TTG		UA	6591	COMPOSITE	3/8		10.0TTG		UA
4890	COMPOSITE	1/2		12.0TTG		UA	6592	COMPOSITE	1/2		12.0TTG		UA
4893	COMPOSITE	3/4		19.0TTG		UA	6595	COMPOSITE	3/16		5.0TPG (m)		UA
7796	COMPOSITE	1/8		3.0TPG (s)		UA	6593	COMPOSITE	3/8		10.0TPG (s)		UA
5128	COMPOSITE	5/32		4.0TPG (d)		UA	Glaz-Tech Industries, Inc. ; Boise, ID						
7797	COMPOSITE	3/16		5.0TPG (m)		UA	6607	COMPOSITE	1/8		3.0TTG		UA
7798	COMPOSITE	1/4		6.0TPG (s)		UA	6608	COMPOSITE	3/16		5.0TTG		UA
4897	COMPOSITE	3/8		10.0TPG (m)		UA	6609	COMPOSITE	1/4		6.0TTG		UA
Glasstech Industries B.S.C. ; Hidd, Manama, Bahrain							6610	COMPOSITE	3/8		10.0TTG		UA
7298	COMPOSITE	5/32		4.0TTG		UA	6611	COMPOSITE	1/2		12.0TTG		UA
7299	COMPOSITE	1/4		6.0TTG		UA	6713	COMPOSITE	3/16		5.0TPG (m)		UA
7300	COMPOSITE	5/16		8.0TTG		UA	6612	COMPOSITE	3/8		10.0TPG (s)		UA
7305	COMPOSITE	(H)		8,12-16+LTG (ip)(A)	(.035)	UA	Glaz-Tech Industries, Inc. ; Englewood, CO						
7306	COMPOSITE	(H)		8,12-16+LTG (b)(A)	(.015)	UA	2185	COMPOSITE	1/8		3.0TTG		UA
GlassTemp, Inc. ; Bellwood, IL							2186	COMPOSITE	3/16		5.0TTG		UA
7695	COMPOSITE	1/4		6.0TTG		UA	2187	COMPOSITE	1/4		6.0TTG		UA
7696	COMPOSITE	3/8		10.0TTG		UA	5143	COMPOSITE	3/8		10.0TTG		UA
7697	COMPOSITE	1/2		12.0TTG		UA	2189	COMPOSITE	1/2		12.0TTG		UA
Glasswerks GWA- West ; South Gate CA							2193	COMPOSITE	3/16		5.0TPG (m)		UA
5480	COMPOSITE	5/32		4.0TTG		UA	Glaz-Tech Industries, Inc. ; Phoenix, AZ						
5481	COMPOSITE	3/16		5.0TTG		UA	6582	COMPOSITE	1/8		3.0TTG		UA
5482	COMPOSITE	1/4		6.0TTG		UA	6583	COMPOSITE	3/16		5.0TTG		UA
							6584	COMPOSITE	1/4		6.0TTG		UA
							6585	COMPOSITE	3/8		10.0TTG		UA
							6586	COMPOSITE	1/2		12.0TTG		UA
							6587	COMPOSITE	3/16		5.0TPG (m)		UA
							6588	COMPOSITE	3/8		10.0TPG (s)		UA

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Glaz-Tech Industries, Inc. ; Santa Teresa, NM							Grupo Vidrios el Castillo ; Escobedo, Nuevo Leon, Mexico						
6599	COMPOSITE	1/8		3.0TTG		UA	7583	COMP+CAN	1/8		3.0TTG		UA
6600	COMPOSITE	3/16		5.0TTG		UA	5840	COMP+CAN	1/4		6.0TTG		UA
6601	COMPOSITE	1/4		6.0TTG		UA	5781	COMP+CAN	3/8		10.0TTG		UA
6602	COMPOSITE	3/8		10.0TTG		UA	6058	COMP+CAN	(S)		6LTG (b)(A)	(.015)	UB
6603	COMPOSITE	1/2		12.0TTG		UA	6083	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
6604	COMPOSITE	1/8		3.0TPG (s)		UA	G-TECH Optoelectronics Corporation ; Taiwan, China						
6605	COMPOSITE	3/16		5.0TPG (m)		UA	7922	COMP+CAN	1/4		6.0TTG		UA
6606	COMPOSITE	3/8		10.0TPG (s)		UA	8052	COMP+CAN	5/16		8.0TTG		UA
Glaz-Tech Industries, Inc. ; Tucson, AZ							7489	COMP+CAN	(H)		10-16+ LSP (b)(A)	.030x2 ECx1	UA
6574	COMPOSITE	1/8		3.0TTG		UA	7832	COMP+CAN	(H)		12-16+ LSP (b)(A)	.030x3 ECx2	UA
6575	COMPOSITE	3/16		5.0TTG		UA	Guangdong Avic Special Glass Technology Co., Ltd ; Guangdong, China						
6576	COMPOSITE	1/4		6.0TTG		UA	7363	COMPOSITE	1/4		6.0TTG		UA
6577	COMPOSITE	3/8		10.0TTG		UA	7364	COMPOSITE	5/16		8.0TTG		UA
6578	COMPOSITE	1/2		12.0TTG		UA	7365	COMPOSITE	3/8		10.0TTG		UA
6579	COMPOSITE	1/8		3.0TPG (s)		UA	7366	COMPOSITE	1/2		12.0TTG		UA
6580	COMPOSITE	3/16		5.0TPG (m)		UA	7367	COMPOSITE	*		15.0TTG (4)		UA
6581	COMPOSITE	3/8		10.0TPG (s)		UA	7368	COMPOSITE	3/4		19.0TTG		UA
Glenny Glass Co. ; Milford, OH							7369	COMP+CAN	(H)		12,16+LTG (b)(A)	(.060)	UA
3841	COMPOSITE	1/8		3.0TTG		UA	7404	COMP+CAN	(H)		12,16+LTG (ip)(A)	(.035)	UA
3843	COMPOSITE	3/16		5.0TTG		UA	Guangdong South Star Glass Limited ; Foshan, Guangdong						
3844	COMPOSITE	1/4		6.0TTG		UA	7974	COMPOSITE	5/16		8.0TTG		UA
3845	COMPOSITE	3/8		10.0TTG		UA	7975	COMPOSITE	3/8		10.0TTG		UA
3846	COMPOSITE	1/2		12.0TTG		UA	7976	COMPOSITE	1/2		12.0TTG		UA
7937	COMPOSITE	(H)		8LTG (ev)(HS)	(.060)	UA	7977	COMPOSITE	*		15.0TTG (4)		UA
7938	COMPOSITE	(H)		10LTG (ev)(A)	(.030)	UA	7978	COMPOSITE	3/4		19.0TTG		UA
Global Security Glazing ; Selma, AL							7979	COMPOSITE	(H)		12, 16+LTG (b)(T)	(.030)	UA
4764	COMP+CAN	1/8		3.0TTG		UA	Guardian Fabrication, LLC ; Galax, VA						
4765	COMP+CAN	3/16		5.0TTG		UA	4604	COMP+CAN	1/8		3.0TTG		UA
4766	COMP+CAN	1/4		6.0TTG		UA	4605	COMP+CAN	5/32		4.0TTG		UA
4767	COMP+CAN	3/8		10.0TTG		UA	4606	COMP+CAN	3/16		5.0TTG		UA
4768	COMP+CAN	1/2		12.0TTG		UA	4607	COMP+CAN	1/4		6.0TTG		UA
4769	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	4609	COMP+CAN	3/8		10.0TTG		UA
4770	COMP+CAN	(H)		12LTG (b)(A)	(.060)	UA	4610	COMP+CAN	1/2		12.0TTG		UA
GnT Glass Co., Ltd. ; Dongguan, Guangdong, China							4612	COMP+CAN	1/8		3.0TPG (s)		UA
6540	COMP+CAN	1/4		6.0TTG		UA	4613	COMP+CAN	3/16		5.0TPG (m)		UA
5788	COMP+CAN	5/16		8.0TTG		UA	4627	COMP+CAN	3/8		10.0TPG (s)		UA
5789	COMP+CAN	3/8		10.0TTG		UA	4633	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
5790	COMP+CAN	*		12.0TTG (4)		UA	4658	COMP+CAN	(H)		8LTG (b)(A)	(.030)	UA
5791	COMP+CAN	(H)		10-16+LTG (b)(A)	(.060)	UA	4829	COMP+CAN	(H)		8-10LTG (b)(p)(el)(6)(A)	(.075)	UA
7131	COMP+CAN	(H)		10LTG (ip)(A)	(.060)	UA	Guardian Fabrication, LLC ; Galax, VA (Newest Location)						
Goldray Industries Ltd. ; Calgary, AB Canada							8001	COMP+CAN	1/8		3.0TTG		UA
2445	COMP+CAN	5/32		4.0TTG		UA	8002	COMP+CAN	5/32		4.0TTG		UA
2446	COMP+CAN	3/16		5.0TTG		UA	8003	COMP+CAN	3/16		5.0TTG		UA
2447	COMP+CAN	1/4		6.0TTG		UA	8004	COMP+CAN	1/4		6.0TTG		UA
2448	COMP+CAN	3/8		10.0TTG		UA							
2449	COMP+CAN	1/2		12.0TTG		UA							
Griffin Glass & Metal Werks, Inc. ; Elmhurst, IL													
7146	COMP+CAN	3/16		5.0TTG		UA							
7147	COMP+CAN	1/4		6.0TTG		UA							
7201	COMP+CAN	5/16		8.0TTG		UA							
7202	COMP+CAN	3/8		10.0TTG		UA							
7148	COMP+CAN	1/2		12.0TTG		UA							
7284	COMP+CAN	3/4		19.0TTG		UA							

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Guardian Fabrication, LLC ; Sun Prairie, WI							Guardian Glass, LLC ; Richburg, SC						
5640	COMP+CAN	1/8		3.0TTG		UA	1630	COMPOSITE	1/8		3.0TTG		UA
5641	COMP+CAN	5/32		4.0TTG		UA	1631	COMPOSITE	5/32		4.0TTG		UA
5642	COMP+CAN	3/16		5.0TTG		UA	1632	COMPOSITE	3/16		5.0TTG		UA
5643	COMP+CAN	1/4		6.0TTG		UA	1633	COMPOSITE	1/4		6.0TTG		UA
6570	COMP+CAN	5/16		8.0TTG		UA	2382	COMPOSITE	5/16		8.0TTG		UA
5644	COMP+CAN	1/8		3.0TPG (d)		UA	1634	COMPOSITE	3/8		10.0TTG		UA
5645	COMP+CAN	5/32		4.0TPG (d)		UA	1683	COMPOSITE	1/8		3.0TPG (m)		UA
5646	COMP+CAN	3/16		5.0TPG (d)		UA	1635	COMPOSITE	5/32		4.0TPG (m)		UA
5647	COMP+CAN	1/4		6.0TPG (d)		UA	1865	COMPOSITE	3/16		5.0TPG (m)		UA
Guardian Glass, LLC ; Corsicana, TX							3002	COMPOSITE	1/4		6.0TPG (m)		UA
1248	COMP+CAN	1/8		3.0TTG		UA	3003	COMPOSITE	3/8		10.0TPG (m)		UA
1249	COMP+CAN	5/32		4.0TTG		UA	Gulf Glass Industries, LLC ; Sharjah, United Arab Emirates						
1250	COMP+CAN	3/16		5.0TTG		UA	4796	COMPOSITE	1/4		6.0TTG		UA
1251	COMP+CAN	1/4		6.0TTG		UA	6326	COMPOSITE	5/16		8.0TTG		UA
1826	COMP+CAN	5/16		8.0TTG		UA	4797	COMPOSITE	3/8		10.0TTG		UA
1253	COMP+CAN	3/8		10.0TTG		UA	4798	COMPOSITE	*		12.0TTG (7)		UA
1803	COMP+CAN	1/2		12.0TTG		UA	4799	COMPOSITE	(H)		8LTG (b)(A) (.030)		UA
2458	COMP+CAN	1/8		3.0TPG (m)		UA	Huahui Glass (China) Co., LD ; Quanzhou City, China						
2459	COMP+CAN	5/32		4.0TPG (m)		UA	5843	COMPOSITE	5/32		4.0TTG		UA
2460	COMP+CAN	3/16		5.0TPG (m)		UA	Imagic Glass Inc. ; Concord, Ontario						
5142	COMP+CAN	1/4		6.0TPG (m)		UA	7355	COMP+CAN	(H)		12LTG (b)(A) (.060)		UA
5133	COMP+CAN	3/8		10.0TPG (m)		UA	7356	COMP+CAN	(H)		12LTG (ev)(A) (.015)		UA
Guardian Glass, LLC ; DeWitt, IA							Industrial Tempering Glass ; Brooklyn, NY						
2020	COMP+CAN	1/8		3.0TTG		UA	6985	COMPOSITE	1/4		6.0TTG		UA
2021	COMP+CAN	5/32		4.0TTG		UA	3418	COMPOSITE	3/8		10.0TTG		UA
2022	COMP+CAN	3/16		5.0TTG		UA	3419	COMPOSITE	1/2		12.0TTG		UA
2023	COMP+CAN	1/4		6.0TTG		UA	4240	COMPOSITE	3/4		19.0TTG		UA
2024	COMP+CAN	5/16		8.0TTG		UA	Industries Vanier Inc. ; Anjou, QC						
2545	COMP+CAN	3/8		10.0TTG		UA	6952	COMP+CAN	1/8		3.0TTG		UA
2649	COMP+CAN	1/2		12.0TTG		UA	6953	COMP+CAN	5/32		4.0TTG		UA
Guardian Glass, LLC ; Geneva, NY							6954	COMP+CAN	3/16		5.0TTG		UA
2259	COMP+CAN	1/8		3.0TTG		UA	6955	COMP+CAN	1/4		6.0TTG		UA
2260	COMP+CAN	5/32		4.0TTG		UA	6956	COMP+CAN	5/16		8.0TTG		UA
2261	COMP+CAN	3/16		5.0TTG		UA	6957	COMP+CAN	3/8		10.0TTG		UA
2262	COMP+CAN	1/4		6.0TTG		UA	6958	COMP+CAN	1/2		12.0TTG		UA
3672	COMP+CAN	5/16		8.0TTG		UA	6959	COMP+CAN	5/8		16.0TTG		UA
2519	COMP+CAN	3/8		10.0TTG		UA	6960	COMP+CAN	3/4		19.0TTG		UA
3673	COMP+CAN	1/2		12.0TTG		UA	Inkan Ltd ; Brampton, ON						
Guardian Glass, LLC ; Kingsburg, CA							5135	COMP+CAN	1/4		6.0TTG		UA
968	COMP+CAN	1/8		3.0TTG		UA	5136	COMP+CAN	5/16		8.0TTG		UA
969	COMP+CAN	5/32		4.0TTG		UA	5137	COMP+CAN	3/8		10.0TTG		UA
970	COMP+CAN	3/16		5.0TTG		UA	5138	COMP+CAN	1/2		12.0TTG		UA
971	COMP+CAN	1/4		6.0TTG		UA	5139	COMP+CAN	5/8		16.0TTG		UA
1303	COMP+CAN	1/8		3.0TPG (d)		UA	5140	COMP+CAN	3/4		19.0TTG		UA
1301	COMP+CAN	5/32		4.0TPG (m)		UA	Innovative Glass Products LLC ; Carrollton, TX						
1304	COMP+CAN	3/16		5.0TPG (m)		UA	7062	COMPOSITE	1/8		3.0TTG		UA
1882	COMP+CAN	1/4		6.0TPG (m)		UA	7063	COMPOSITE	5/32		4.0TTG		UA
							7064	COMPOSITE	3/16		5.0TTG		UA
							7065	COMPOSITE	1/4		6.0TTG		UA
							Inova Glass S.A. de C.V ; Chihuahua, Mexico						
							7880	COMPOSITE	1/4		6.0TTG		UA
							7881	COMPOSITE	3/8		10.0TTG		UA

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Insulite Glass Co., Inc. ; Olathe, KS							Isoterglass SRL ; Galliera Veneta, Padova						
4473	COMPOSITE	1/8		3.0TTG		UA	8169	COMP+CAN	3/16		5.0TTG		UA
4474	COMPOSITE	5/32		4.0TTG		UA	8170	COMP+CAN	1/4		6.0TTG		UA
3714	COMPOSITE	3/16		5.0TTG		UA	8171	COMP+CAN	5/16		8.0TTG		UA
3715	COMPOSITE	1/4		6.0TTG		UA	8172	COMP+CAN	3/8		10.0TTG		UA
3716	COMPOSITE	3/8		10.0TTG		UA	8173	COMP+CAN	1/2		12.0TTG		UA
3717	COMPOSITE	1/2		12.0TTG		UA	J&C International Ltd. ; Zhejiang, China						
3718	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA	6676	COMP+CAN	1/8		3.0TTG		UA
3720	COMPOSITE	(H)		8LTG (b)(A)	(.060)	UA	J&Y Glass Services ; Naples, FL						
5513	COMPOSITE	(H)		10-12LTG (b)(A)	(.030)	UA	8077	COMPOSITE	1/4		6.0TTG		UA
Integral Seal Mfg. Inc. ; Concord, ON Canada							8078	COMPOSITE	3/8		10.0TTG		UA
4682	COMP+CAN	5/32		4.0TTG		UA	8079	COMPOSITE	1/2		12.0TTG		UA
4683	COMP+CAN	3/16		5.0TTG		UA	J.C. Moag Corporation ; Georgetown, IN						
4684	COMP+CAN	1/4		6.0TTG		UA	7906	COMPOSITE	(H)		12, 16+LTG (ev)(A)	(.060)	UA
7245	COMP+CAN	(H)		10-12LTG (ev)(A)	(.060)	UA	Jiangmen Jianghai Jin Ying Tempered Glass Ltd. ; Jiangmen City, Guangdong						
Integrity Glass Tempering, LLC. ; Venice , FL							7574	COMP+CAN	3/16		5.0TTG		UA
6666	COMPOSITE	3/16		5.0TTG		UA	7575	COMP+CAN	1/4		6.0TTG		UA
6635	COMPOSITE	1/4		6.0TTG		UA	7576	COMP+CAN	5/16		8.0TTG		UA
6636	COMPOSITE	3/8		10.0TTG		UA	7577	COMP+CAN	3/8		10.0TTG		UA
6637	COMPOSITE	1/2		12.0TTG		UA	7578	COMP+CAN	*		12.0TTG (4)		UA
7097	COMPOSITE	3/16		5.0TPG (m)		UA	Jiangmen SYP Engineering Glass Co, Ltd. ; Guangdong, China						
Inter Fonction Ltee ; Sherbrooke, Quebec							4303	COMP+CAN	5/32		4.0TTG		UA
7235	COMP+CAN	3/8		10.0TTG		UA	4304	COMP+CAN	3/16		5.0TTG		UA
8089	COMP+CAN	1/2		12.0TTG		UA	4305	COMP+CAN	1/4		6.0TTG		UA
Interglass Corp ; Miami, FL							4306	COMP+CAN	5/16		8.0TTG		UA
5032	COMPOSITE	3/16		5.0TTG		UA	4307	COMP+CAN	3/8		10.0TTG		UA
5033	COMPOSITE	1/4		6.0TTG		UA	4308	COMP+CAN	1/2		12.0TTG		UA
5034	COMPOSITE	3/8		10.0TTG		UA	4309	COMP+CAN	*		15.0TTG (4)		UA
5035	COMPOSITE	1/2		12.0TTG		UA	4310	COMP+CAN	3/4		19.0TTG		UA
5036	COMPOSITE	3/4		19.0TTG		UA	5052	COMP+CAN	1/4		6.0TBG		UA
Intex Glass (Xiamen) Co., Ltd. ; Xiamen, Fujian, China							5053	COMP+CAN	5/16		8.0TBG		UA
2572	COMP+CAN	1/8		3.0TTG		UA	5054	COMP+CAN	3/8		10.0TBG		UA
2573	COMP+CAN	5/32		4.0TTG		UA	5055	COMP+CAN	1/2		12.0TBG		UA
2574	COMP+CAN	3/16		5.0TTG		UA	4312	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
2575	COMP+CAN	1/4		6.0TTG		UA	4575	COMP+CAN	(H)		10-16+LTG (ip)(A)	(.060)	UA
3025	COMP+CAN	5/16		8.0TTG		UA	Jiangsu Chungse Glass Co., Ltd. ; Nantong City, Jiangsu Province						
2576	COMP+CAN	3/8		10.0TTG		UA	7527	COMPOSITE	1/8		3.0TTG		UA
2577	COMP+CAN	1/2		12.0TTG		UA	Jiangyin Mingyang Glass Production ; Jiangyin City, Jiangsu						
6131	COMP+CAN	1/8		3.0TPG (m)		UA	5777	COMPOSITE	*		3.0TTG (3)		UA
6132	COMP+CAN	5/32		4.0TPG (s)		UA	5778	COMP+CAN	5/32		4.0TTG		UA
6133	COMP+CAN	1/4		6.0TPG (s)		UA	7598	COMPOSITE	3/16		5.0TTG		UA
Intigral ; Quakertown, PA							5779	COMP+CAN	1/4		6.0TTG		UA
2507	COMP+CAN	1/8		3.0TTG		UA	5780	COMP+CAN	5/16		8.0TTG		UA
3421	COMP+CAN	5/32		4.0TTG		UA	6203	COMPOSITE	3/8		10.0TTG		UA
2509	COMP+CAN	3/16		5.0TTG		UA	6478	COMPOSITE	5/32		4.0TPG (m)		UA
Intigral ; Walton Hills, OH							6479	COMPOSITE	3/16		5.0TPG (m)		UA
2050	COMP+CAN	1/8		3.0TTG		UA	7870	COMP+CAN	1/4		6.0TPG (s)		UA
2051	COMP+CAN	5/32		4.0TTG		UA	7258	COMPOSITE	1/4		6.0TBG		UA
2052	COMP+CAN	3/16		5.0TTG		UA							
2055	COMP+CAN	1/4		6.0TTG		UA							
3631	COMP+CAN	1/8		3.0TPG (m)		UA							
4588	COMP+CAN	5/32		4.0TPG (m)		UA							
8048	COMP+CAN	3/16		5.0TPG (m)		UA							

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Jinzhou Fortune Spring Glass Co., Ltd. ; Jinzhou, Liaoning, China							LandGlass Technology Co., LTD ; Luoyang, China						
7268	COMP+CAN	1/8		3.0TTG		UA	7622	COMPOSITE	5/16		8.0VIGT		UA
							6476	COMPOSITE	3/8		10.0VIGT		UA
JM Glass ; Hayward, CA							Laurier Architectural inc. ; Montreal, QC						
4928	COMPOSITE	3/16		5.0TTG		UA	6217	COMP+CAN	1/8		3.0TTG		UA
4929	COMPOSITE	1/4		6.0TTG		UA	6218	COMP+CAN	5/32		4.0TTG		UA
4930	COMPOSITE	3/8		10.0TTG		UA	6219	COMP+CAN	3/16		5.0TTG		UA
4931	COMPOSITE	1/2		12.0TTG		UA	6220	COMP+CAN	1/4		6.0TTG		UA
JYC Glass Co. Ltd. ; Foshan, Guangdong, China							6221	COMP+CAN	3/8		10.0TTG		UA
3957	COMP+CAN	1/8		3.0TTG		UA	6222	COMP+CAN	1/2		12.0TTG		UA
3958	COMP+CAN	5/32		4.0TTG		UA	Legacy Glass and Mirror, LLC. ; Irving, TX						
3959	COMP+CAN	3/16		5.0TTG		UA	8053	COMPOSITE	3/16		5.0TTG		UA
3960	COMP+CAN	1/4		6.0TTG		UA	7600	COMPOSITE	1/4		6.0TTG		UA
3961	COMP+CAN	5/16		8.0TTG		UA	7601	COMPOSITE	3/8		10.0TTG		UA
3962	COMP+CAN	3/8		10.0TTG		UA	7602	COMPOSITE	1/2		12.0TTG		UA
3963	COMP+CAN	1/2		12.0TTG		UA	Les Verres VMIK Inc. ; Gatineau, QC						
4161	COMP+CAN	5/32		4.0TPG (s)		UA	6893	COMP+CAN	5/32		4.0TTG		UA
6621	COMP+CAN	3/16		5.0TPG (s)		UA	6894	COMP+CAN	3/16		5.0TTG		UA
6622	COMP+CAN	1/4		6.0TPG (s)		UA	6895	COMP+CAN	1/4		6.0TTG		UA
6619	COMP+CAN	3/16		5.0TBP (s)		UA	6896	COMP+CAN	3/8		10.0TTG		UA
6620	COMP+CAN	1/4		6.0TBP (s)		UA	6897	COMP+CAN	1/2		12.0TTG		UA
3991	COMP+CAN	5/32		4.0TBG		UA	Liaocheng Chicheng Glass Material Co., Ltd. ; Shandong, China						
3992	COMP+CAN	3/16		5.0TBG		UA	7490	COMP+CAN	*		7.0TBP (s)(2)(IN)	10-A 3/16" X76"	
3993	COMP+CAN	1/4		6.0TBG		UA	Lien Yeu Cermin (Muar) SDN BHD ; Malaysia						
3994	COMP+CAN	5/16		8.0TBG		UA	7358	COMPOSITE	5/32		4.0TTG		UA
Kensington Glass Arts ; Ijamsville, MD							7359	COMPOSITE	3/16		5.0TTG		UA
5973	COMPOSITE	1/4		6.0TTG		UA	7360	COMPOSITE	1/4		6.0TTG		UA
5974	COMPOSITE	3/8		10.0TTG		UA	7361	COMPOSITE	5/16		8.0TTG		UA
5975	COMPOSITE	1/2		12.0TTG		UA	7362	COMPOSITE	3/8		10.0TTG		UA
5976	COMPOSITE	5/8		16.0TTG		UA	8038	COMPOSITE	1/2		12.0TTG		UA
5977	COMPOSITE	3/4		19.0TTG		UA	Lippert Components ; Bristol, IN						
KFK d.o.o. ; Dugo Selo, Croatia							8061	COMPOSITE	1/8		3.0TTG		UA
8108	COMPOSITE	5/16		8.0TTG		UA	8062	COMPOSITE	1/4		6.0TTG		UA
8109	COMPOSITE (H)		10LTG (b)(A)		(.030)	UA	Louisville Plate Glass ; Louisville, KY						
Kohler Company ; Union City, TN							6070	COMPOSITE	1/8		3.0TTG		UA
1979	COMP+CAN	1/8		3.0TTG		UA	6072	COMPOSITE	3/16		5.0TTG		UA
1980	COMP+CAN	5/32		4.0TTG		UA	6073	COMPOSITE	1/4		6.0TTG		UA
1981	COMP+CAN	3/16		5.0TTG		UA	6074	COMPOSITE	3/8		10.0TTG		UA
1982	COMP+CAN	1/4		6.0TTG		UA	6075	COMPOSITE	1/2		12.0TTG		UA
4668	COMP+CAN	5/16		8.0TTG		UA	LTI Smart Glass, Inc. ; Pittsfield, MA						
2434	COMP+CAN	3/8		10.0TTG		UA	7079	COMP+CAN	1/8		3.0TTG		UA
4012	COMP+CAN	1/2		12.0TTG		UA	6922	COMP+CAN	3/16		5.0TTG		UA
1983	COMP+CAN	1/8		3.0TPG (m)		UA	6923	COMP+CAN	1/4		6.0TTG		UA
3532	COMP+CAN	5/32		4.0TPG (m)		UA	6924	COMP+CAN	5/16		8.0TTG		UA
1984	COMP+CAN	3/16		5.0TPG (s)		UA	6925	COMP+CAN	3/8		10.0TTG		UA
2918	COMPOSITE	1/4		6.0TPG (m)(IN)		UA	6926	COMP+CAN	1/2		12.0TTG		UA
La Tecnica Nel Vetro SpA ; Scafati, Salerno, Italy							7286	COMP+CAN (H)		10-16+LTG (b)(A)		(.030)	UA
7174	COMP+CAN	3/16		5.0TTG		UA							
7168	COMP+CAN	1/4		6.0TTG		UA							
7167	COMP+CAN	5/16		8.0TTG		UA							
7166	COMP+CAN	3/8		10.0TTG		UA							
7165	COMP+CAN	1/2		12.0TTG		UA							
7169	COMP+CAN (H)		8-12LTG (b)(A)		(.015)	UA							

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M Industria S.A. DE C.V. ; Conkal							Maryland Glass & Mirror ; Baltimore, MD						
7708	COMP+CAN	1/8		3.0TTG		UA	4318	COMPOSITE	1/8		3.0TTG		UA
7709	COMP+CAN	5/32		4.0TTG		UA	4319	COMPOSITE	3/16		5.0TTG		UA
7682	COMP+CAN	3/16		5.0TTG		UA	4320	COMPOSITE	1/4		6.0TTG		UA
7683	COMP+CAN	1/4		6.0TTG		UA	8066	COMPOSITE	5/16		8.0TTG		UA
7684	COMP+CAN	5/16		8.0TTG		UA	4321	COMPOSITE	3/8		10.0TTG		UA
7685	COMP+CAN	3/8		10.0TTG		UA	4322	COMPOSITE	1/2		12.0TTG		UA
7686	COMP+CAN	1/2		12.0TTG		UA	7022	COMPOSITE	3/4		19.0TTG		UA
7687	COMP+CAN	3/4		19.0TTG		UA	McGrory Glass ; Paulsboro, NJ						
8054	COMP+CAN	1/4		6.0TBG		UA	4925	COMPOSITE	3/16		5.0TTG		UA
8055	COMP+CAN	3/8		10.0TBG		UA	4813	COMPOSITE	1/4		6.0TTG		UA
8056	COMP+CAN	1/2		12.0TBG		UA	4814	COMPOSITE	3/8		10.0TTG		UA
7688	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA	4815	COMPOSITE	1/2		12.0TTG		UA
7690	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	4816	COMPOSITE	5/8		16.0TTG		UA
7689	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA	4817	COMPOSITE	3/4		19.0TTG		UA
7691	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	4818	COMPOSITE	1/4		6.0TPG (m)		UA
M&M Tempering Inc. ; Loganville, GA							4819	COMPOSITE	3/8		10.0TPG (s)		UA
4280	COMPOSITE	1/4		6.0TTG		UA	4820	COMPOSITE	1/2		12.0TPG (s)(IN)		UA
4281	COMPOSITE	3/8		10.0TTG		UA	7287	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA
4282	COMPOSITE	1/2		12.0TTG		UA	5263	COMPOSITE	(H)		8-12LTG (b)(A)	(.030)	UA
M3 Glass Technologies ; Irving, TX							Mercer Glass Fab LLC ; Trenton, NJ						
5945	COMPOSITE	1/4		6.0TTG		UA	7671	COMPOSITE	1/4		6.0TTG		UA
5946	COMPOSITE	3/8		10.0TTG		UA	4530	COMPOSITE	5/16		8.0TTG		UA
5947	COMPOSITE	1/2		12.0TTG		UA	4255	COMPOSITE	3/8		10.0TTG		UA
Manko Window Systems ; Aurora, CO							4256	COMPOSITE	1/2		12.0TTG		UA
6275	COMPOSITE	1/8		3.0TTG		UA	4257	COMPOSITE	1/4		6.0TPG (m)		UA
6276	COMPOSITE	5/32		4.0TTG		UA	4258	COMPOSITE	3/8		10.0TPG (m)		UA
6277	COMPOSITE	3/16		5.0TTG		UA	Merck Window Technologies B.V. ; Veldhoven, N.B.						
6278	COMPOSITE	1/4		6.0TTG		UA	7829	COMP+CAN	(H)		25LSP (b)(HS)	(.030)x6	UA
6279	COMPOSITE	3/8		10.0TTG		UA	7830	COMP+CAN	(H)		32LSP (b)(HS)	(.030)x4	UA
6280	COMPOSITE	1/2		12.0TTG		UA	Mid-American Glass ; Davenport, IA						
Manko Window Systems- KS ; Manhattan, KS							7227	COMPOSITE	1/8		3.0TTG		UA
6826	COMPOSITE	5/32		4.0TTG		UA	7228	COMPOSITE	5/32		4.0TTG		UA
6827	COMPOSITE	3/16		5.0TTG		UA	7229	COMPOSITE	3/16		5.0TTG		UA
6828	COMPOSITE	1/4		6.0TTG		UA	7230	COMPOSITE	1/4		6.0TTG		UA
6829	COMPOSITE	3/8		10.0TTG		UA	7231	COMPOSITE	3/8		10.0TTG		UA
6830	COMPOSITE	1/2		12.0TTG		UA	7232	COMPOSITE	1/2		12.0TTG		UA
6833	COMPOSITE	1/8		3.0TPG (s)		UA	Midwest Glass Fabricators Inc. ; Highland, MI						
6834	COMPOSITE	3/16		5.0TPG (m)		UA	6027	COMP+CAN	1/8		3.0TTG		UA
6835	COMPOSITE	1/4		6.0TPG (m)		UA	6028	COMP+CAN	5/32		4.0TTG		UA
6836	COMPOSITE	3/8		10.0TPG (m)		UA	6029	COMP+CAN	3/16		5.0TTG		UA
Manko Windows ; Des Moines, IA							6030	COMP+CAN	1/4		6.0TTG		UA
6286	COMPOSITE	1/8		3.0TTG		UA	6031	COMP+CAN	3/8		10.0TTG		UA
6287	COMPOSITE	5/32		4.0TTG		UA	6032	COMP+CAN	1/2		12.0TTG		UA
6288	COMPOSITE	3/16		5.0TTG		UA	6033	COMP+CAN	5/8		16.0TTG		UA
6289	COMPOSITE	1/4		6.0TTG		UA	6034	COMP+CAN	3/4		19.0TTG		UA
6290	COMPOSITE	3/8		10.0TTG		UA	7920	COMP+CAN	3/16		5.0TPG (m)		UA
6291	COMPOSITE	1/2		12.0TTG		UA	7921	COMP+CAN	1/4		6.0TPG (s)		UA
6432	COMPOSITE	5/8		16.0TTG		UA	6037	COMP+CAN	3/8		10.0TPG (m)		UA
7004	COMPOSITE	3/4		19.0TTG		UA	7357	COMP+CAN	(H)		10-12LTG (b)(A)	(.030)	UA
6292	COMPOSITE	1/8		3.0TPG (m)		UA	Milgard Tempering ; Dixon, CA						
6293	COMPOSITE	5/32		4.0TPG (m)		UA	2842	COMPOSITE	1/4		6.0TTG		UA
6294	COMPOSITE	3/16		5.0TPG (d)		UA							
6295	COMPOSITE	1/4		6.0TPG (m)		UA							
6296	COMPOSITE	3/8		10.0TPG (m)		UA							

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SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS	SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS
Mirror Works Inc. ; Ottawa, Ontario							Ningbo Xinxin Glass Technology Co., Ltd ; Ningbo, China						
8164	COMP+CAN	5/32		4.0TTG		UA	6271	COMPOSITE	5/32		4.0TTG		UA
8165	COMP+CAN	3/16		5.0TTG		UA	6272	COMPOSITE	1/4		6.0TTG		UA
8166	COMP+CAN	1/4		6.0TTG		UA	7873	COMPOSITE	3/8		10.0TTG		UA
8167	COMP+CAN	3/8		10.0TTG		UA	6273	COMPOSITE	5/32		4.0TPG (m)		UA
8168	COMP+CAN	1/2		12.0TTG		UA	6274	COMPOSITE	1/4		6.0TPG (s)		UA
Mr. Glass Tempering, LLC ; Brooklyn, NY							6845	COMPOSITE	3/8		10.0TPG (s)		UA
7170	COMP+CAN	3/16		5.0TTG		UA	Niskayuna Glass ; Schenectady, NY						
7171	COMP+CAN	1/4		6.0TTG		UA	7471	COMP+CAN	1/8		3.0TTG		UA
7172	COMP+CAN	3/8		10.0TTG		UA	7472	COMP+CAN	3/16		5.0TTG		UA
7173	COMP+CAN	1/2		12.0TTG		UA	7473	COMP+CAN	1/4		6.0TTG		UA
Multiver ; Vanier, QC							Northeast Building Products ; Philadelphia, PA						
2498	COMP+CAN	1/8		3.0TTG		UA	7281	COMPOSITE	1/8		3.0TTG		UA
2629	COMP+CAN	5/32		4.0TTG		UA	7282	COMPOSITE	5/32		4.0TTG (IN)		UA
6890	COMP+CAN	3/16		5.0TTG		UA	7283	COMPOSITE	3/16		5.0TTG		UA
2499	COMP+CAN	1/4		6.0TTG		UA	8084	COMPOSITE	1/8		3.0TPG (s)		UA
5226	COMP+CAN	5/16		8.0TTG		UA	Northwestern Glass Fab ; Fridley, MN						
5227	COMP+CAN	3/8		10.0TTG		UA	6733	COMPOSITE	1/8		3.0TTG		UA
5228	COMP+CAN	1/2		12.0TTG		UA	6734	COMPOSITE	3/16		5.0TTG		UA
Nashville Tempered Glass Corp. ; Nashville, TN							6735	COMPOSITE	1/4		6.0TTG		UA
1416	COMP+CAN	1/8		3.0TTG		UA	6736	COMPOSITE	3/8		10.0TTG		UA
2497	COMP+CAN	5/32		4.0TTG		UA	6737	COMPOSITE	1/2		12.0TTG		UA
1467	COMP+CAN	3/16		5.0TTG		UA	Northwestern Industries - Arizona, Inc. ; Yuma, AZ						
1417	COMP+CAN	1/4		6.0TTG		UA	6566	COMPOSITE	3/16		5.0TTG		UA
5729	COMP+CAN	5/16		8.0TTG		UA	6567	COMPOSITE	1/4		6.0TTG		UA
2494	COMP+CAN	3/8		10.0TTG		UA	6568	COMPOSITE	5/16		8.0TTG		UA
Nashville Tempered Glass LLC ; Hendersonville, TN							6569	COMPOSITE	3/8		10.0TTG		UA
2691	COMP+CAN	5/32		4.0TTG		UA	Novatech Canada Inc. ; St-Agapit, Quebec, Canada						
2692	COMP+CAN	3/16		5.0TTG		UA	7006	COMP+CAN	1/8		3.0TTG		UA
2693	COMP+CAN	1/4		6.0TTG		UA	7007	COMP+CAN	5/32		4.0TTG		UA
7980	COMP+CAN	5/16		8.0TTG		UA	7008	COMP+CAN	3/16		5.0TTG		UA
2694	COMP+CAN	3/8		10.0TTG		UA	7009	COMP+CAN	1/4		6.0TTG		UA
4148	COMP+CAN	1/2		12.0TTG		UA	Novavetro S.r.l. ; San Severino Marche,						
5454	COMP+CAN	3/4		19.0TTG		UA	7768	COMP+CAN	3/16		5.0TTG		UA
5229	COMP+CAN	(S)		5-6LTG (b)(A)	(.015)	UB	7769	COMP+CAN	1/4		6.0TTG		UA
5231	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA	7770	COMP+CAN	5/16		8.0TTG		UA
5230	COMP+CAN	(H)		8-16+LTG (b)(A)	(.015)	UA	7771	COMP+CAN	3/8		10.0TTG		UA
New Angle Beveling ; Clearfield, PA							7772	COMP+CAN	1/2		12.0TTG		UA
5772	COMPOSITE	1/8		3.0TTG		UA	7773	COMP+CAN	*		15.0TTG (4)		UA
5774	COMPOSITE	3/16		5.0TTG		UA	7774	COMP+CAN	(S)		6LTG (b)(A)	(.015)	UA
5773	COMPOSITE	1/4		6.0TTG		UA	7775	COMP+CAN	(H)		8-12LTG (b)(A)	(.015)	UA
5775	COMPOSITE	3/8		10.0TTG		UA	7776	COMP+CAN	(H)		16+LTG (b)(A)	(.030)	UA
5776	COMPOSITE	1/2		12.0TTG		UA	NY Tempering LLC ; Maspeth, NY						
New Angle Beveling ; Hyde, PA							4900	COMPOSITE	3/16		5.0TTG		UA
4593	COMPOSITE	1/8		3.0TTG		UA	4901	COMPOSITE	1/4		6.0TTG		UA
4594	COMPOSITE	3/16		5.0TTG		UA	4902	COMPOSITE	3/8		10.0TTG		UA
4595	COMPOSITE	1/4		6.0TTG		UA	4903	COMPOSITE	1/2		12.0TTG		UA
4591	COMPOSITE	3/8		10.0TTG		UA	New Century Glass & Aluminum LLC ; Woodside, NY						
4592	COMPOSITE	1/2		12.0TTG		UA	5455	COMPOSITE	3/16		5.0TTG		UA
New Century Glass & Aluminum LLC ; Woodside, NY							5456	COMPOSITE	1/4		6.0TTG		UA
5455	COMPOSITE	3/16		5.0TTG		UA	5457	COMPOSITE	3/8		10.0TTG		UA
5456	COMPOSITE	1/4		6.0TTG		UA	5458	COMPOSITE	1/2		12.0TTG		UA
5457	COMPOSITE	3/8		10.0TTG		UA							
5458	COMPOSITE	1/2		12.0TTG		UA							

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Oldcastle BuildingEnvelope® ; Albertville, MN							Oldcastle BuildingEnvelope® ; Denver, CO						
3104	COMP+CAN	1/8		3.0TTG		UA	3310	COMP+CAN	1/8		3.0TTG		UA
3105	COMP+CAN	5/32		4.0TTG		UA	3311	COMP+CAN	5/32		4.0TTG		UA
3106	COMP+CAN	3/16		5.0TTG		UA	3312	COMP+CAN	3/16		5.0TTG		UA
3107	COMP+CAN	1/4		6.0TTG		UA	3313	COMP+CAN	1/4		6.0TTG		UA
4882	COMP+CAN	5/16		8.0TTG		UA	3314	COMP+CAN	3/8		10.0TTG		UA
3108	COMP+CAN	3/8		10.0TTG		UA	3315	COMP+CAN	1/2		12.0TTG		UA
3109	COMP+CAN	1/2		12.0TTG		UA	3317	COMP+CAN	1/8		3.0TPG (s)		UA
3110	COMP+CAN	5/8		16.0TTG		UA	3318	COMP+CAN	5/32		4.0TPG (d)		UA
3111	COMP+CAN	3/4		19.0TTG		UA	3319	COMP+CAN	3/16		5.0TPG (m)		UA
3112	COMP+CAN	5/32		4.0TPG (s)		UA	3320	COMP+CAN	1/4		6.0TPG (m)		UA
3113	COMP+CAN	3/16		5.0TPG (s)		UA	3321	COMP+CAN	3/8		10.0TPG (m)		UA
3127	COMP+CAN	3/8		10.0TPG (m)		UA	4533	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
8083	COMPOSITE	(H)		8-16+LTG (ip)(A)	(.060)	UA	4454	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
Oldcastle BuildingEnvelope® ; Calgary, AB							6056	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.060)	UA
3263	COMP+CAN	1/8		3.0TTG		UA	Oldcastle BuildingEnvelope® ; Fremont, CA						
3264	COMP+CAN	5/32		4.0TTG		UA	3191	COMP+CAN	1/8		3.0TTG		UA
3265	COMP+CAN	3/16		5.0TTG		UA	3192	COMP+CAN	5/32		4.0TTG		UA
3266	COMP+CAN	1/4		6.0TTG		UA	3193	COMP+CAN	3/16		5.0TTG		UA
3267	COMP+CAN	5/16		8.0TTG		UA	3194	COMP+CAN	1/4		6.0TTG		UA
3268	COMP+CAN	3/8		10.0TTG		UA	5387	COMP+CAN	5/16		8.0TTG		UA
3269	COMP+CAN	1/2		12.0TTG		UA	3195	COMP+CAN	3/8		10.0TTG		UA
3270	COMP+CAN	5/8		16.0TTG		UA	3196	COMP+CAN	1/2		12.0TTG		UA
3271	COMP+CAN	3/4		19.0TTG		UA	4458	COMP+CAN	5/8		16.0TTG		UA
3273	COMP+CAN	5/32		4.0TPG (d)		UA	3197	COMP+CAN	3/4		19.0TTG		UA
3274	COMP+CAN	3/16		5.0TPG (d)		UA	3199	COMP+CAN	1/8		3.0TPG (s)		UA
3275	COMP+CAN	1/4		6.0TPG (m)		UA	3200	COMP+CAN	5/32		4.0TPG (d)		UA
3262	COMP+CAN	3/8		10.0TPG (d)		UA	3201	COMP+CAN	3/16		5.0TPG (m)		UA
Oldcastle BuildingEnvelope® ; Concord, ON							3907	COMP+CAN	1/4		6.0TPG (m)		UA
3439	COMP+CAN	1/8		3.0TTG		UA	3203	COMP+CAN	3/8		10.0TPG (m)		UA
3440	COMP+CAN	5/32		4.0TTG		UA	7879	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
3441	COMP+CAN	3/16		5.0TTG		UA	4460	COMP+CAN	(H)		8-16+LTG (b)(A)	(.060)	UA
3442	COMP+CAN	1/4		6.0TTG		UA	4461	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.060)	UA
3443	COMP+CAN	5/16		8.0TTG		UA	Oldcastle BuildingEnvelope® ; Grand Prairie, TX						
3444	COMP+CAN	3/8		10.0TTG		UA	3250	COMP+CAN	1/8		3.0TTG		UA
3445	COMP+CAN	1/2		12.0TTG		UA	3252	COMP+CAN	3/16		5.0TTG		UA
3446	COMP+CAN	5/8		16.0TTG		UA	3253	COMP+CAN	1/4		6.0TTG		UA
3447	COMP+CAN	3/4		19.0TTG		UA	3255	COMP+CAN	3/8		10.0TTG		UA
4424	COMP+CAN	3/16		5.0TPG (s)		UA	3256	COMP+CAN	1/2		12.0TTG		UA
3448	COMP+CAN	3/8		10.0TPG (s)		UA	7039	COMP+CAN	5/8		16.0TTG		UA
Oldcastle BuildingEnvelope® ; Covington, GA							3257	COMP+CAN	3/4		19.0TTG		UA
3329	COMP+CAN	1/8		3.0TTG		UA	3425	COMP+CAN	1/8		3.0TPG (s)		UA
3330	COMP+CAN	5/32		4.0TTG		UA	3426	COMP+CAN	5/32		4.0TPG (m)(IN)		UA
3331	COMP+CAN	3/16		5.0TTG		UA	3427	COMP+CAN	3/16		5.0TPG (s)		UA
3332	COMP+CAN	1/4		6.0TTG		UA	3428	COMP+CAN	3/8		10.0TPG (s)		UA
3333	COMP+CAN	3/8		10.0TTG		UA	7099	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
3334	COMP+CAN	1/2		12.0TTG		UA	7109	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.060)	UA
4390	COMP+CAN	5/8		16.0TTG		UA							
3335	COMP+CAN	3/4		19.0TTG		UA							
6697	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA							
4393	COMP+CAN	(H)		10-12LTG (ip)(A)	(.035)	UA							
4392	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA							

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Oldcastle BuildingEnvelope® ; Hauppauge, NY							Oldcastle BuildingEnvelope® ; Miami, FL						
1546	COMP+CAN	1/8		3.0TTG		UA	7845	COMP+CAN	1/8		3.0TTG		UA
1547	COMP+CAN	3/16		5.0TTG		UA	7847	COMP+CAN	5/32		4.0TTG		UA
1548	COMP+CAN	1/4		6.0TTG		UA	3497	COMP+CAN	3/16		5.0TTG		UA
4180	COMP+CAN	5/16		8.0TTG		UA	3498	COMP+CAN	1/4		6.0TTG		UA
1549	COMP+CAN	3/8		10.0TTG		UA	7848	COMP+CAN	5/16		8.0TTG		UA
1550	COMP+CAN	1/2		12.0TTG		UA	3499	COMP+CAN	3/8		10.0TPG	(s)	UA
3392	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	3500	COMP+CAN	1/2		12.0TTG		UA
4618	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	7849	COMP+CAN	5/8		16.0TTG		UA
5355	COMP+CAN	(H)		10-16+LTG (ip)(A)	(.060)	UA	7850	COMP+CAN	3/4		19.0TTG		UA
Oldcastle BuildingEnvelope® ; Indianapolis, IN							7846	COMP+CAN	1/8		3.0TPG (m)		UA
2210	COMP+CAN	1/8		3.0TTG		UA	3502	COMP+CAN	3/16		5.0TPG (m)		UA
2216	COMP+CAN	5/32		4.0TTG		UA	4477	COMP+CAN	1/4		6.0TPG (d)		UA
2211	COMP+CAN	3/16		5.0TTG		UA	3503	COMP+CAN	3/8		10.0TPG (s)		UA
2212	COMP+CAN	1/4		6.0TTG		UA	7872	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA
2213	COMP+CAN	3/8		10.0TTG		UA	7877	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
2214	COMP+CAN	1/2		12.0TTG		UA	4399	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA
7250	COMP+CAN	5/8		16.0TTG		UA	4398	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
4384	COMP+CAN	1/8		3.0TPG (m)		UA	Oldcastle BuildingEnvelope® ; Moorestown, NJ						
2215	COMP+CAN	3/16		5.0TPG (m)		UA	3180	COMP+CAN	1/8		3.0TTG		UA
5442	COMP+CAN	1/4		6.0TPG (m)		UA	3181	COMP+CAN	5/32		4.0TTG		UA
3259	COMP+CAN	3/8		10.0TPG (m)		UA	3182	COMP+CAN	3/16		5.0TTG		UA
Oldcastle BuildingEnvelope® ; Langley, BC							3183	COMP+CAN	1/4		6.0TTG		UA
3286	COMP+CAN	1/8		3.0TTG		UA	3184	COMP+CAN	3/8		10.0TTG		UA
3287	COMP+CAN	5/32		4.0TTG		UA	3185	COMP+CAN	1/2		12.0TTG		UA
3288	COMP+CAN	3/16		5.0TTG		UA	4054	COMP+CAN	5/8		16.0TTG		UA
3289	COMP+CAN	1/4		6.0TTG		UA	3186	COMP+CAN	1/8		3.0TPG (s)		UA
3290	COMP+CAN	5/16		8.0TTG		UA	3187	COMP+CAN	5/32		4.0TPG (d)		UA
3291	COMP+CAN	3/8		10.0TTG		UA	3188	COMP+CAN	3/16		5.0TPG (m)		UA
3292	COMP+CAN	1/2		12.0TTG		UA	3189	COMP+CAN	1/4		6.0TPG (m)		UA
3293	COMP+CAN	5/8		16.0TTG		UA	3190	COMP+CAN	3/8		10.0TPG (s)		UA
3294	COMP+CAN	3/4		19.0TTG		UA	Oldcastle BuildingEnvelope® ; Perrysburg, OH						
3295	COMP+CAN	1/8		3.0TPG (m)		UA	3233	COMP+CAN	1/8		3.0TTG		UA
3296	COMP+CAN	5/32		4.0TPG (d)		UA	3234	COMP+CAN	5/32		4.0TTG		UA
3297	COMP+CAN	3/16		5.0TPG (d)		UA	3235	COMP+CAN	3/16		5.0TTG		UA
4710	COMP+CAN	3/8		10.0TPG (s)		UA	3236	COMP+CAN	1/4		6.0TTG		UA
4475	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	4443	COMP+CAN	5/16		8.0TTG		UA
4476	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	3237	COMP+CAN	3/8		10.0TTG		UA
Oldcastle BuildingEnvelope® ; Los Angeles, CA							3238	COMP+CAN	1/2		12.0TTG		UA
1608	COMP+CAN	1/8		3.0TTG		UA	3239	COMP+CAN	5/8		16.0TTG		UA
1609	COMP+CAN	5/32		4.0TTG		UA	3240	COMP+CAN	3/4		19.0TTG		UA
630	COMP+CAN	3/16		5.0TTG		UA	3243	COMP+CAN	3/16		5.0TPG (s)		UA
514	COMP+CAN	1/4		6.0TTG		UA	3244	COMP+CAN	1/4		6.0TPG (m)		UA
4400	COMP+CAN	5/16		8.0TTG		UA	4700	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
515	COMP+CAN	3/8		10.0TTG		UA	4446	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
516	COMP+CAN	1/2		12.0TTG		UA	4444	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.060)	UA
4387	COMP+CAN	5/8		16.0TTG		UA							
2074	COMP+CAN	3/4		19.0TTG		UA							
935	COMP+CAN	3/16		5.0TPG (m)		UA							
3793	COMP+CAN	3/8		10.0TPG (m)		UA							
7406	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA							
4346	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA							
7407	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA							
4563	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA							

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SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS	SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS
Oldcastle BuildingEnvelope® ; Phoenix, AZ							Oldcastle BuildingEnvelope® ; Tampa, FL						
3128	COMP+CAN	1/8		3.0TTG		UA	3116	COMP+CAN	1/8		3.0TTG		UA
3130	COMP+CAN	3/16		5.0TTG		UA	3118	COMP+CAN	3/16		5.0TTG		UA
3131	COMP+CAN	1/4		6.0TTG		UA	3119	COMP+CAN	1/4		6.0TTG		UA
3132	COMP+CAN	3/8		10.0TTG		UA	3120	COMP+CAN	3/8		10.0TTG		UA
3133	COMP+CAN	1/2		12.0TTG		UA	3121	COMP+CAN	1/2		12.0TTG		UA
7262	COMP+CAN	5/8		16.0TTG		UA	3122	COMP+CAN	1/8		3.0TPG (s)		UA
6394	COMP+CAN	3/4		19.0TTG		UA	3124	COMP+CAN	3/16		5.0TPG (m)		UA
7521	COMP+CAN	1/8		3.0TPG (s)		UA	3125	COMP+CAN	1/4		6.0TPG (m)		UA
3136	COMP+CAN	3/16		5.0TPG (m)		UA	4340	COMP+CAN	3/8		10.0TPG (s)		UA
3999	COMP+CAN	1/4		6.0TPG (m)		UA	4448	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
3729	COMP+CAN	3/8		10.0TPG (m)		UA	4449	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
Oldcastle BuildingEnvelope® ; Rock Hill, SC							5051	COMP+CAN	(H)		12LTG (ip)(A)	(.035)	UA
3276	COMP+CAN	1/8		3.0TTG (IN)		UA	Oldcastle BuildingEnvelope® ; Vancouver, WA						
3462	COMP+CAN	5/32		4.0TTG		UA	3219	COMP+CAN	1/8		3.0TTG		UA
3277	COMP+CAN	3/16		5.0TTG		UA	3220	COMP+CAN	5/32		4.0TTG		UA
3278	COMP+CAN	1/4		6.0TTG		UA	3221	COMP+CAN	3/16		5.0TTG		UA
4787	COMP+CAN	5/16		8.0TTG (IN)		UA	3222	COMP+CAN	1/4		6.0TTG		UA
3279	COMP+CAN	3/8		10.0TTG		UA	3223	COMP+CAN	5/16		8.0TTG		UA
3280	COMP+CAN	1/2		12.0TTG		UA	3224	COMP+CAN	3/8		10.0TTG		UA
3281	COMP+CAN	1/8		3.0TPG (s)(IN)		UA	3225	COMP+CAN	1/2		12.0TTG		UA
4396	COMP+CAN	5/32		4.0TPG (d)		UA	3226	COMP+CAN	1/8		3.0TPG (s)		UA
3283	COMP+CAN	3/16		5.0TPG (d)		UA	7424	COMP+CAN	5/32		4.0TPG (s)		UA
3285	COMP+CAN	3/8		10.0TPG (d)		UA	3228	COMP+CAN	3/16		5.0TPG (m)		UA
Oldcastle BuildingEnvelope® ; Schofield, WI							3229	COMP+CAN	1/4		6.0TPG (m)		UA
3167	COMP+CAN	1/8		3.0TTG		UA	3230	COMP+CAN	3/8		10.0TPG (m)		UA
3168	COMP+CAN	5/32		4.0TTG		UA	Oldcastle BuildingEnvelope® ; Warrenton, MO						
3169	COMP+CAN	3/16		5.0TTG		UA	3144	COMP+CAN	1/8		3.0TTG		UA
3170	COMP+CAN	1/4		6.0TTG		UA	3145	COMP+CAN	5/32		4.0TTG		UA
3171	COMP+CAN	5/16		8.0TTG		UA	3146	COMP+CAN	3/16		5.0TTG		UA
3172	COMP+CAN	3/8		10.0TTG		UA	3147	COMP+CAN	1/4		6.0TTG		UA
3173	COMP+CAN	1/2		12.0TTG		UA	3796	COMP+CAN	5/16		8.0TTG		UA
3177	COMP+CAN	5/32		4.0TPG (s)		UA	3148	COMP+CAN	3/8		10.0TTG		UA
3178	COMP+CAN	3/16		5.0TPG (d)		UA	3149	COMP+CAN	1/2		12.0TTG		UA
3179	COMP+CAN	1/4		6.0TPG (d)		UA	5904	COMP+CAN	5/8		16.0TTG		UA
3176	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	3151	COMP+CAN	1/8		3.0TPG (s)		UA
6773	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.060)	UA	3152	COMP+CAN	5/32		4.0TPG (s)		UA
4558	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	3153	COMP+CAN	3/16		5.0TPG (m)		UA
Oldcastle BuildingEnvelope® ; Shawnee, OK							3154	COMP+CAN	1/4		6.0TPG (m)		UA
3095	COMP+CAN	1/8		3.0TTG		UA	3155	COMP+CAN	3/8		10.0TPG (d)		UA
3096	COMP+CAN	5/32		4.0TTG		UA	Oldcastle BuildingEnvelope® ; Wright City, MO						
3097	COMP+CAN	3/16		5.0TTG		UA	3137	COMP+CAN	1/8		3.0TTG		UA
3098	COMP+CAN	1/4		6.0TTG		UA	3138	COMP+CAN	5/32		4.0TTG		UA
3099	COMP+CAN	3/8		10.0TTG		UA	3139	COMP+CAN	3/16		5.0TTG		UA
3100	COMP+CAN	1/2		12.0TTG		UA	3140	COMP+CAN	1/4		6.0TTG		UA
7603	COMP+CAN	3/4		19.0TTG		UA	3141	COMP+CAN	5/16		8.0TTG		UA
3101	COMP+CAN	1/8		3.0TPG (m)		UA	3142	COMP+CAN	3/8		10.0TTG		UA
3102	COMP+CAN	5/32		4.0TPG (m)		UA	3143	COMP+CAN	1/2		12.0TTG		UA
3103	COMP+CAN	3/16		5.0TPG (m)		UA	4526	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
							4528	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA
							4527	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
							4529	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA

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Oldcastle BuildingEnvelope® Canada Inc. ; Pointe-aux-Trembles, QC							Perficom S.A. DE C.V. ; San Juan Del Rio, Queretaro, Mexico						
4247	COMP+CAN	5/32		4.0TTG		UA	4512	COMPOSITE	1/8		3.0TTG		UA
1997	COMP+CAN	3/16		5.0TTG		UA	PFG Glass ; Langley, BC						
2543	COMP+CAN	1/4		6.0TTG		UA	3538	COMP+CAN	1/8		3.0TTG		UA
2884	COMP+CAN	5/16		8.0TTG		UA	3539	COMP+CAN	5/32		4.0TTG		UA
2544	COMP+CAN	3/8		10.0TTG		UA	3540	COMP+CAN	3/16		5.0TTG		UA
2062	COMP+CAN	1/2		12.0TTG		UA	3542	COMP+CAN	5/16		8.0TTG		UA
7397	COMP+CAN	5/8		16.0TTG		UA	3543	COMP+CAN	3/8		10.0TTG		UA
7398	COMP+CAN	3/4		19.0TTG		UA	3544	COMP+CAN	1/2		12.0TTG		UA
5024	COMP+CAN	(S)		6LTG (b)(A)(IN)	(.015)(C1)	UB	3547	COMP+CAN	1/8		3.0TPG (s)		UA
5025	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	3548	COMP+CAN	5/32		4.0TPG (d)		UA
4435	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	3549	COMP+CAN	3/16		5.0TPG (s)		UA
4433	COMP+CAN	(H)		10-16+LTG (ip)(A)	(.070)	UA	3711	COMP+CAN	1/4		6.0TPG (s)		UA
Oldcastle BuildingEnvelope® Houston Southerland ; Houston, TX							PGT Industries ; North Venice, FL						
7909	COMPOSITE	5/32		4.0TTG		UA	2389	COMPOSITE	1/8		3.0TTG		UA
7910	COMPOSITE	3/16		5.0TTG		UA	2390	COMPOSITE	3/16		5.0TTG		UA
6728	COMPOSITE	1/4		6.0TTG		UA	2391	COMPOSITE	1/4		6.0TTG		UA
7911	COMPOSITE	5/16		8.0TTG		UA	3880	COMPOSITE	1/8		3.0TPG (s)		UA
6729	COMPOSITE	3/8		10.0TTG		UA	3881	COMPOSITE	3/16		5.0TPG (s)		UA
6730	COMPOSITE	1/2		12.0TTG		UA	7451	COMPOSITE	(S)		6LTG (ip)(A)	(.035)	UA
7912	COMPOSITE	5/8		16.0TTG		UA	7452	COMPOSITE	(H)		8-12LTG (ip)(A)	(.035)	UA
7913	COMPOSITE	3/4		19.0TTG		UA	2426	COMPOSITE	(H)		8-12LTG (b)(A)	(.060)	UA
7914	COMPOSITE	3/16		5.0TPG (s)		UA	Philly Glass Industry Inc. ; Philadelphia, PA						
7915	COMPOSITE	3/8		10.0TPG (s)		UA	7652	COMP+CAN	3/16		5.0TTG		UA
7908	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA	7653	COMP+CAN	1/4		6.0TTG		UA
7962	COMPOSITE	(S)		6LTG (ip)(A)	(.035)	UA	7654	COMP+CAN	3/8		10.0TTG		UA
6732	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA	7655	COMP+CAN	1/2		12.0TTG		UA
6731	COMPOSITE	(H)		8-16+LTG (ip)(A)	(.035)	UA	7656	COMP+CAN	5/8		16.0TTG (IN)		UA
Onyx Solar Energy, S.L. ; Avila, Spain							7657	COMP+CAN	3/4		19.0TTG (IN)		UA
7071	COMPOSITE	(H)		12LTG (ev)(HS)	(.060)	UA	Pietta Glass Working Srl ; Valenii De Munte, Romania						
7070	COMPOSITE	(H)		16LSP (ip)(HS)	(.035)x2	UA	7190	COMP+CAN	5/32		4.0TTG		UA
PAN- DUR Glass GmbH ; Ilmenau, Thuringen							7191	COMP+CAN	3/16		5.0TTG		UA
6738	COMPOSITE	5/32		4.0TTG		UA	7384	COMP+CAN	1/4		6.0TTG		UA
6739	COMPOSITE	1/4		6.0TTG		UA	7385	COMP+CAN	5/16		8.0TTG		UA
Paragon Tempered Glass ; Antwerp, OH							7386	COMP+CAN	3/8		10.0TTG		UA
2684	COMPOSITE	1/8		3.0TTG		UA	7387	COMP+CAN	1/2		12.0TTG		UA
2685	COMPOSITE	5/32		4.0TTG		UA	7389	COMP+CAN	(H)		8,12-16+LTG (b)(A)	(.030)	UA
2686	COMPOSITE	3/16		5.0TTG		UA	8064	COMP+CAN	(H)		12LTG (ip)(A)	(.060)	UA
2687	COMPOSITE	1/4		6.0TTG		UA	7388	COMP+CAN	(H)		16+LTG (ip)(A)	(.035)	UA
2688	COMPOSITE	3/8		10.0TTG		UA	Pilkington Architectural ; St. Helens, Merseyside, England						
5242	COMPOSITE	3/16		5.0TBG		UA	7132	COMP+CAN	1/4		6.0TTG		UA
4811	COMPOSITE	1/4		6.0TBG		UA	7133	COMP+CAN	5/16		8.0TTG		UA
Patio Enclosures ; Macedonia, OH							7134	COMP+CAN	3/8		10.0TTG		UA
7843	COMPOSITE	1/8		3.0TTG		UA	7135	COMP+CAN	1/2		12.0TTG		UA
Patriot Armored Systems, LLC ; Lee, MA							7136	COMP+CAN	*		15.0TTG (4)		UA
6688	COMPOSITE	1/8		3.0TTG		UA	7137	COMP+CAN	3/4		19.0TTG		UA
6689	COMPOSITE	3/16		5.0TTG		UA	Pilkington Plyglass ; Somercotes, Derby, United Kingdom						
6690	COMPOSITE	1/4		6.0TTG		UA	7408	COMP+CAN	(H)		12-16+LTG (b)(HS)	(.060)	UA
6691	COMPOSITE	3/8		10.0TTG		UA	7409	COMP+CAN	(H)		12-16+LTG (ip)(HS)	(.060)	UA
Pennsylvania Insulating Glass ; Lewistown, PA							Pingdingshan Youbo Glass Technology Co., Ltd. ; Pingdingshan, Henan						
3918	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA	8100	COMPOSITE	3/16		5.0TTG		UA
							8101	COMPOSITE	(H)		10LTG (ip)(A)	(.035)	UA

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Pirnar-Staklo d.o.o. ; Bosanski Petrovac							Premier Glass Products ; Atlanta, GA						
7704	COMP+CAN	1/4	6.0	TTG		UA	6792	COMP+CAN	1/4	6.0	TTG		UA
Portland Glass Manufacturing ; Clackamas, OR							6793	COMP+CAN	3/8	10.0	TTG		UA
6372	COMPOSITE	1/4	6.0	TTG		UA	6794	COMP+CAN	1/2	12.0	TTG		UA
6373	COMPOSITE	3/8	10.0	TTG		UA	7059	COMP+CAN	1/4	6.0	TBG		34x56 A
6510	COMPOSITE	1/2	12.0	TTG		UA	7060	COMP+CAN	3/8	10.0	TBG		34x56 A
Precision Glass Bending Corporation ; Greenwood, AR							7061	COMP+CAN	1/2	12.0	TBG		34x56 A
7149	COMP+CAN	1/4	6.0	TBG		UA	Press Glass Inc. ; Ridgeway, VA						
7150	COMP+CAN	3/8	10.0	TBG		UA	7810	COMP+CAN	3/16	5.0	TTG		UA
7151	COMP+CAN	1/2	12.0	TBG		UA	7811	COMP+CAN	1/4	6.0	TTG		UA
7152	COMP+CAN	5/8	16.0	TBG		UA	7812	COMP+CAN	5/16	8.0	TTG		UA
7153	COMP+CAN	3/4	19.0	TBG		UA	7813	COMP+CAN	3/8	10.0	TTG		UA
7422	COMP+CAN	(S)	6LTG	(ip)(A)	(.035)	UA	7814	COMP+CAN	1/2	12.0	TTG		UA
7154	COMP+CAN	(S)	6LTG	(b)(A)	(.030)	UA	7815	COMP+CAN	5/8	16.0	TTG		UA
7423	COMP+CAN	(H)	8-16+LTG	(ip)(A)	(.035)	UA	7816	COMP+CAN	3/4	19.0	TTG		UA
7155	COMP+CAN	(H)	8-16+LTG	(b)(A)	(.030)	UA	PRESS GLASS SA ; Radomsko, Poland						
Precision Glass Industries ; Houston, TX							5845	COMP+CAN	5/32	4.0	TTG		UA
6886	COMPOSITE	3/16	5.0	TTG		UA	6963	COMP+CAN	3/16	5.0	TTG		UA
6887	COMPOSITE	1/4	6.0	TTG		UA	5846	COMP+CAN	1/4	6.0	TTG		UA
6888	COMPOSITE	3/8	10.0	TTG		UA	5847	COMP+CAN	5/16	8.0	TTG		UA
6889	COMPOSITE	1/2	12.0	TTG		UA	5848	COMP+CAN	3/8	10.0	TTG		UA
7604	COMPOSITE	3/16	5.0	TPG (m)		UA	5849	COMP+CAN	1/2	12.0	TTG		UA
7605	COMPOSITE	3/8	10.0	TPG (s)		UA	5850	COMP+CAN	*	15.0	TTG (4)		UA
Prelco Inc. ; Riviere-du-loup, QC							5851	COMP+CAN	(H)	8-16+LTG	(b)(A)	(.030)	UA
2034	COMP+CAN	1/8	3.0	TTG		UA	7479	COMP+CAN	(H)	12,16+LTG	(ip)(A)	(.035)	UA
2035	COMP+CAN	5/32	4.0	TTG		UA	PRESS GLASS SA ; Tychy, Poland						
2713	COMP+CAN	3/16	5.0	TTG		UA	5852	COMP+CAN	5/32	4.0	TTG		UA
7800	COMP+CAN	1/4	6.0	TTG		UA	6404	COMP+CAN	3/16	5.0	TTG		UA
2751	COMP+CAN	5/16	8.0	TTG		UA	5853	COMP+CAN	1/4	6.0	TTG		UA
2381	COMP+CAN	3/8	10.0	TTG		UA	5854	COMP+CAN	5/16	8.0	TTG		UA
2048	COMP+CAN	1/2	12.0	TTG		UA	5855	COMP+CAN	3/8	10.0	TTG		UA
5609	COMP+CAN	5/8	16.0	TTG		UA	5856	COMP+CAN	1/2	12.0	TTG		UA
4904	COMP+CAN	3/4	19.0	TTG		UA	5857	COMP+CAN	*	15.0	TTG (4)		UA
4905	COMP+CAN	(S)	6LTG	(b)(A)	(.030)	UA	7509	COMP+CAN	3/16	5.0	TBG		UA
4906	COMP+CAN	(H)	8-16+LTG	(b)(A)	(.030)	UA	7510	COMP+CAN	1/4	6.0	TBG		UA
Prelco Inc. ; Saint-Jacques, NB							7511	COMP+CAN	5/16	8.0	TBG		UA
4911	COMP+CAN	1/8	3.0	TTG		UA	7512	COMP+CAN	3/8	10.0	TBG		UA
4912	COMP+CAN	5/32	4.0	TTG		UA	7513	COMP+CAN	*	12.0	TBG (2)		UA
4913	COMP+CAN	3/16	5.0	TTG		UA	7514	COMP+CAN	*	15.0	TBG (2)		UA
4914	COMP+CAN	1/4	6.0	TTG		UA	5858	COMP+CAN	(H)	8-16+LTG	(b)(A)	(.030)	UA
4915	COMP+CAN	5/16	8.0	TTG		UA	7638	COMP+CAN	(H)	12-16+LTG	(ip)(A)	(.035)	UA
4916	COMP+CAN	3/8	10.0	TTG		UA	Press Glass, Inc. ; Stoneville, NC						
4917	COMP+CAN	1/2	12.0	TTG		UA	2728	COMP+CAN	1/8	3.0	TTG		UA
5610	COMP+CAN	5/8	16.0	TTG		UA	2730	COMP+CAN	3/16	5.0	TTG		UA
5611	COMP+CAN	3/4	19.0	TTG		UA	2732	COMP+CAN	1/4	6.0	TTG		UA
Prelco MTL Inc. ; Montreal, QC							5259	COMP+CAN	5/16	8.0	TTG		UA
7481	COMP+CAN	5/32	4.0	TTG		UA	2729	COMP+CAN	3/8	10.0	TTG		UA
7482	COMP+CAN	3/16	5.0	TTG		UA	2733	COMP+CAN	1/2	12.0	TTG		UA
7483	COMP+CAN	1/4	6.0	TTG		UA	2731	COMP+CAN	5/8	16.0	TTG		UA
7484	COMP+CAN	5/16	8.0	TTG		UA	2734	COMP+CAN	3/4	19.0	TTG		UA
7485	COMP+CAN	3/8	10.0	TTG		UA	4375	COMP+CAN	(S)	6LTG	(b)(A)	(.030)	UA
							4413	COMP+CAN	(S)	6LTG	(ip)(A)	(.035)	UA
							4414	COMP+CAN	(H)	8-16+LTG	(ip)(A)	(.035)	UA
							4376	COMP+CAN	(H)	8-16+LTG	(b)(A)	(.030)	UA

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PRL Glass Systems ; City of Industry, CA							Pulp Studio, Inc. ; Gardena, CA						
6508	COMPOSITE	1/4		6.0TTG		UA	7860	COMP+CAN	3/16		5.0TTG		UA
7971	COMP+CAN	(H)		12LTG (ev)(A)	(.030)	UA	6416	COMP+CAN	1/4		6.0TTG		UA
Procesadora De Jalisco S.A. DE C.V. - Queretaro ; San Juan del Rio, Queretaro							7861	COMP+CAN	5/16		8.0TTG		UA
6716	COMPOSITE	1/8		3.0TTG		UA	7807	COMP+CAN	3/8		10.0TTG		UA
6717	COMPOSITE	1/4		6.0TTG		UA	7808	COMP+CAN	1/2		12.0TTG		UA
Procesadora de Jalisco, S.A. DE C.V. ; Zapopan, Mexico							7862	COMP+CAN	5/8		16.0TTG		UA
6718	COMPOSITE	1/4		6.0TTG		UA	7863	COMP+CAN	3/4		19.0TTG		UA
6719	COMPOSITE	3/8		10.0TTG		UA	4711	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
6720	COMPOSITE	1/2		12.0TTG		UA	Qianse Acrylic Co., LTD. ; Dongguan City, Guangdong Province, China						
6721	COMPOSITE	(H)		12LTG (ip)(T)	(.060)	UA	7247	ANSI ONLY	1/8		3.0SPS		UA
6722	COMPOSITE	(H)		12LTG (b)(T)	(.060)	UA	Qingdao Globalstar Glass Technology Co., Ltd. ; Qingdao, Shandong						
Productora y Distribuidora de Espejos S.A. de C.V. ; Pesqueria, Nuevo Leon							8033	COMPOSITE	1/4		6.0TTG		UA
6517	COMPOSITE	1/4		6.0TTG		UA	8034	COMPOSITE	3/8		10.0TTG		UA
6518	COMPOSITE	3/8		10.0TTG		UA	Qingdao Ideal Building Material Co. Ltd. ; Qingdao, Shandong						
Productos De Valor Agregado en Cristal S.A. de C.V. ; San Juan Ixhuatepec, Tlalnepantla, Mexico							6776	COMPOSITE	1/8		3.0TTG		UA
4639	COMPOSITE	3/16		5.0TTG		UA	6777	COMPOSITE	5/32		4.0TTG		UA
4645	COMPOSITE	1/4		6.0TTG		UA	Qingdao Jinjing Glass Co., Ltd. ; China						
4788	COMPOSITE	5/16		8.0TTG		UA	7678	COMPOSITE	1/8		3.0TTG		UA
4640	COMPOSITE	3/8		10.0TTG		UA	7679	COMPOSITE	5/32		4.0TTG		UA
4641	COMPOSITE	1/2		12.0TTG		UA	Qingdao Kingdom Glass Co., Ltd. ; Qingdao, Shandong Province						
4642	COMPOSITE	3/4		19.0TTG		UA	7680	COMP+CAN	5/16		8.0TTG		UA
Produits Verrier International Inc. ; Montreal, Quebec							8039	COMP+CAN	3/8		10.0TTG		UA
5498	COMP+CAN	1/8		3.0TTG		UA	7681	COMP+CAN	*		12.0TTG (4)		UA
5499	COMP+CAN	5/32		4.0TTG		UA	Qingdao Laurel Glass Technology Co., Ltd ; Qingdao City, China						
5500	COMP+CAN	3/16		5.0TTG		UA	7125	COMP+CAN	1/8		3.0TTG		UA
5501	COMP+CAN	1/4		6.0TTG		UA	7110	COMP+CAN	5/32		4.0TTG		UA
7844	COMP+CAN	5/16		8.0TTG		UA	8063	COMP+CAN	1/4		6.0TTG		UA
5502	COMP+CAN	3/8		10.0TTG		UA	8019	COMP+CAN	5/16		8.0TTG		UA
5503	COMP+CAN	1/2		12.0TTG		UA	7126	COMP+CAN	3/8		10.0TTG		UA
5504	COMP+CAN	1/8		3.0TPG (s)		UA	8020	COMP+CAN	1/2		12.0TTG		UA
5505	COMP+CAN	3/16		5.0TPG (s)		UA	8021	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
7973	COMP+CAN	(H)		10-16+LTG (ev)(A)	(.030)	UA	Qingdao Runya Glass Products Co., LTD ; Qingdao, Shandong						
7972	COMP+CAN	(H)		10,16+LTG (ev)(A)	(.015)	UA	8102	COMPOSITE	1/2		12.0TTG		UA
ProTemp Glass, Inc. ; Concord, ON							Qinhuangdao Ampac Building Products Co., Ltd. ; Qinhuangdao Hebei, China						
7410	COMP+CAN	5/32		4.0TTG		UA	5899	COMPOSITE	1/8		3.0TTG		UA
7411	COMP+CAN	3/16		5.0TTG		UA	5900	COMPOSITE	5/32		4.0TTG		UA
7382	COMP+CAN	1/4		6.0TTG		UA	5901	COMPOSITE	3/16		5.0TTG		UA
7312	COMP+CAN	5/16		8.0TTG		UA	5902	COMPOSITE	5/32		4.0TPG (s)		UA
7313	COMP+CAN	3/8		10.0TTG		UA	5903	COMPOSITE	3/16		5.0TPG (d)		UA
7314	COMP+CAN	1/2		12.0TTG		UA	Qinhuangdao Jingxin Glass Co., Ltd. ; Qinhuangdao City, Hebei Province						
7315	COMP+CAN	5/8		16.0TTG		UA	5280	COMPOSITE	1/8		3.0TTG		UA
7316	COMP+CAN	3/4		19.0TTG		UA							
7907	COMP+CAN	(H)		10-16+LTG (b)(A)	(.060)	UA							
Przedsiębiorstwo TMF s.c. Florczak Tadeusz, Florczak Michal ; Koscielce, Poland													
8162	COMP+CAN	(H)		10LTG (b)(A)	(.030)	UA							
PT Abebersa Pratama ; Bekasi, Indonesia													
3905	COMPOSITE	5/32		4.0TTG		UA							
3906	COMPOSITE	3/16		5.0TTG		UA							
8000	COMPOSITE	5/32		4.0TPG (s)		UA							

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Qinhuangdao Mingjingyuan Safety Technology Glass Co., Ltd ; Qinhuangdao, Hebei, China						Ready Glass & Mirror, Inc. ; Hialeah, FL					
6313	COMP+CAN	1/4	6.0TTG		UA	3745	COMPOSITE	3/16	5.0TTG		UA
5129	COMP+CAN	*	12.0TTG (4)		UA	3746	COMPOSITE	1/4	6.0TTG		UA
5130	COMP+CAN	*	15.0TTG (4)		UA	3747	COMPOSITE	3/8	10.0TTG		UA
7732	COMP+CAN	(H)	12LTG (b)(A)	(.030)	UA	3748	COMPOSITE	1/2	12.0TTG		UA
Qinhuangdao Qicaishi Glass Processing Co., Ltd. ; Qinhuangdao, Hebei, China						7013	COMPOSITE	(H)	8-12LTG (b)(A)(IN)	(.015)	UA
5141	COMPOSITE	1/8	3.0TTG		UA	5634	COMPOSITE	(H)	8-16+LTG (ip)(A)	(.035)	UA
Qinhuangdao Rongsheng Glass Processing Co., Ltd. ; Qinhuangdao, Hebei, China						Reem Emirates Aluminum & Glass ; Abu Dhabi, United Arab Emirates					
7259	COMPOSITE (S)		6LTG (b)(A)	(.030)	UA	4675	COMPOSITE	1/4	6.0TTG		UA
QinHuangDao Tianrui Tempered Technology Glass Co. ; Qinhuangdao, Hebei, China						4676	COMPOSITE	5/16	8.0TTG		UA
3690	COMPOSITE	1/8	3.0TTG		UA	4677	COMPOSITE	3/8	10.0TTG		UA
Quaker Window Products, Inc. ; Freeburg, MO						6971	COMPOSITE	(H)	16LTG (b)(A)	(.060)	UA
2985	COMP+CAN	1/8	3.0TTG		UA	Rizhao Huaye Glass Co., Ltd. ; Rizhao, Shandong					
5297	COMP+CAN	5/32	4.0TTG		UA	5566	COMP+CAN	5/32	4.0TTG		UA
2986	COMP+CAN	3/16	5.0TTG		UA	5567	COMP+CAN	3/16	5.0TTG		UA
3485	COMP+CAN	1/4	6.0TTG		UA	5568	COMP+CAN	1/4	6.0TTG		UA
7935	COMP+CAN	5/16	8.0TTG		UA	5569	COMP+CAN	5/16	8.0TTG		UA
2968	COMP+CAN	1/8	3.0TPG (m)		UA	5570	COMP+CAN	3/8	10.0TTG		UA
2969	COMP+CAN	5/32	4.0TPG (m)(IN)		UA	5571	COMP+CAN	1/2	12.0TTG		UA
3486	COMP+CAN	3/16	5.0TPG (m)		UA	5572	COMP+CAN	*	15.0TTG (4)		UA
2970	COMP+CAN	1/4	6.0TPG (m)(IN)		UA	5580	COMP+CAN	(S)	6LTG (b)(A)	(.015)	UA
Quality Enclosures ; Central Islip, NY						5581	COMP+CAN	(H)	8-16LTG (b)(A)	(.015)	UA
6440	COMP+CAN	3/16	5.0TTG		UA	Robover Inc. ; Quebec City, QC					
6441	COMP+CAN	1/4	6.0TTG		UA	5199	COMP+CAN	1/8	3.0TTG		UA
6442	COMP+CAN	3/8	10.0TTG		UA	5200	COMP+CAN	5/32	4.0TTG		UA
6443	COMP+CAN	1/2	12.0TTG		UA	5201	COMP+CAN	3/16	5.0TTG		UA
6444	COMP+CAN	3/16	5.0TPG (s)		UA	5202	COMP+CAN	1/4	6.0TTG		UA
6445	COMP+CAN	1/4	6.0TPG (m)		UA	5763	COMP+CAN	3/8	10.0TTG		UA
6446	COMP+CAN	3/8	10.0TPG (m)		UA	5764	COMP+CAN	1/2	12.0TTG		UA
Quality Enclosures Tempering, Inc. ; Port Orange, FL						Rohden Vidros LTDA (Unidade 2) ; Pouso Redondo, Brazil					
6243	COMPOSITE	3/16	5.0TTG		UA	8103	COMP+CAN	5/32	4.0TTG		UA
6244	COMPOSITE	1/4	6.0TTG		UA	S.F. Tempering ; Dania Beach, FL					
6245	COMPOSITE	3/8	10.0TTG		UA	5452	COMPOSITE	3/16	5.0TTG		UA
6246	COMPOSITE	1/2	12.0TTG		UA	5019	COMPOSITE	1/4	6.0TTG		UA
6247	COMPOSITE	3/16	5.0TPG (m)		UA	5020	COMPOSITE	3/8	10.0TTG		UA
6248	COMPOSITE	1/4	6.0TPG (s)		UA	5021	COMPOSITE	1/2	12.0TTG		UA
6249	COMPOSITE	3/8	10.0TPG (s)		UA	7649	COMPOSITE	3/8	10.0TPG (s)		UA
Quality Glass & Mirror, Inc. ; Mount Prospect, IL						6694	COMPOSITE	(S)	6LTG (ev)(A)	(.015)	UB
2981	COMPOSITE	3/16	5.0TTG		UA	6695	COMPOSITE	(H)	12-16+LTG (ev)(A)	(.015)	UB
2982	COMPOSITE	1/4	6.0TTG		UA	SAAND Inc. ; Toronto, ON					
2983	COMPOSITE	3/8	10.0TTG		UA	2481	COMP+CAN	1/8	3.0TTG		UA
2984	COMPOSITE	1/2	12.0TTG		UA	2482	COMP+CAN	5/32	4.0TTG		UA
3805	COMPOSITE	3/4	19.0TTG		UA	3023	COMP+CAN	3/16	5.0TTG		UA
Quest USA, Inc. ; Garland, TX						2484	COMP+CAN	1/4	6.0TTG		UA
7659	COMP+CAN	1/4	6.0TTG		UA	4356	COMP+CAN	5/16	8.0TTG		UA
Quest Window Systems ; Mississauga, ON						4357	COMP+CAN	3/8	10.0TTG		UA
5719	COMP+CAN	1/4	6.0TTG		UA	4358	COMP+CAN	1/2	12.0TTG		UA

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SAAND London ; London, ON							Saudi German Aluminum Products Co. ; Sinayah, Jeddah						
3978	COMP+CAN	1/8		3.0TTG		UA	8093	COMP+CAN	1/4		6.0TTG		UA
4278	COMP+CAN	5/32		4.0TTG		UA	8094	COMP+CAN	5/16		8.0TTG		UA
3979	COMP+CAN	3/16		5.0TTG		UA	8095	COMP+CAN	3/8		10.0TTG		UA
3980	COMP+CAN	1/4		6.0TTG		UA	8096	COMP+CAN	1/2		12.0TTG		UA
7658	COMP+CAN	5/16		8.0TTG		UA	8097	COMP+CAN	(H)	12, 16+LTG	(b)(A)	(.030)	UA
3981	COMP+CAN	3/8		10.0TTG		UA	SCHOTT Gemtron - Sweetwater ; Sweetwater, TN						
7536	COMP+CAN	1/2		12.0TTG		UA	1334	COMP+CAN	1/8		3.0TTG		UA
SAAND Ottawa ; Stittsville, ON							1332	COMP+CAN	5/32		4.0TTG		UA
4949	COMP+CAN	1/8		3.0TTG		UA	1201	COMP+CAN	3/16		5.0TTG		UA
4950	COMP+CAN	5/32		4.0TTG		UA	1477	COMP+CAN	1/4		6.0TTG		UA
4951	COMP+CAN	3/16		5.0TTG		UA	1422	COMP+CAN	1/8		3.0TPG (s)		UA
4952	COMP+CAN	1/4		6.0TTG		UA	1424	COMP+CAN	5/32		4.0TPG (s)		UA
4953	COMP+CAN	3/8		10.0TTG		UA	SCHOTT Gemtron (Canada) Corporation ; Midland, ON Canada						
4954	COMP+CAN	1/2		12.0TTG		UA	3067	COMP+CAN	1/8		3.0TTG		UA
SAAND Rexdale ; Rexdale, ON							3659	COMP+CAN	5/32		4.0TTG		UA
4995	COMP+CAN	1/8		3.0TTG		UA	3636	COMP+CAN	3/16		5.0TTG		UA
4996	COMP+CAN	5/32		4.0TTG		UA	3637	COMP+CAN	1/4		6.0TTG		UA
4997	COMP+CAN	3/16		5.0TTG		UA	6020	COMP+CAN	5/16		8.0TTG		UA
4998	COMP+CAN	1/4		6.0TTG		UA	6021	COMP+CAN	3/8		10.0TTG		UA
4999	COMP+CAN	3/8		10.0TTG		UA	Selective Shower Glass ; Hialeah, FL						
5000	COMP+CAN	1/2		12.0TTG		UA	6687	COMPOSITE	(H)	10-16+LTG	(ip)(A)	(.035)	UA
5001	COMP+CAN	(S)	6LTG	(b)(A)	(.030)	UA	Senneca Holdings Inc, (Thermoseal Brand) ; Irving, TX						
5002	COMP+CAN	(H)	8-16+LTG	(b)(A)	(.030)	UA	7640	COMPOSITE	1/8		3.0TTG		UA
SAGE Electrochromics Inc. ; Faribault, MN							7641	COMPOSITE	3/16		5.0TTG		UA
7003	COMP+CAN	(S)	6LTG	(ip)(A)	(.035)	UA	7642	COMPOSITE	1/4		6.0TTG		UA
5016	COMP+CAN	(H)	8-12LTG	(ip)(A)	(.035)	UA	Sfera SRL ; Meolo (VE), Italy						
Saint Gobain Mexico, S.A. de C.V. ; Cuautla, Morelos, Mexico							8087	COMP+CAN	5/32		4.0TBG		UA
8152	COMP+CAN	(S)	6LTG	(b)(A)	(.015)	UA	6079	COMP+CAN	1/4		6.0TBG		UA
8153	COMP+CAN	(H)	8LTG	(b)(A)	(.015)	UA	8086	COMP+CAN	5/16		8.0TBG		UA
8154	COMP+CAN	(H)	8LTG	(b)(A)	(.030)	UA	SG Glass Industries L.L.C. ; Miami Gardens, FL						
8155	COMP+CAN	(H)	10LTG	(b)(A)	(.090)	UA	6692	COMP+CAN	5/32		4.0TTG		UA
Saint-Gobain Glassolutions Objekt-Center GmbH ; Radeburg, Germany							6359	COMP+CAN	3/16		5.0TTG		UA
6913	COMP+CAN	1/4		6.0TTG		UA	6360	COMP+CAN	1/4		6.0TTG		UA
6914	COMP+CAN	5/16		8.0TTG		UA	6361	COMP+CAN	3/8		10.0TTG		UA
6915	COMP+CAN	3/8		10.0TTG		UA	6362	COMP+CAN	1/2		12.0TTG		UA
6800	COMP+CAN	(H)	12LTG	(b)(A)	(.030)	UA	6363	COMP+CAN	3/4		19.0TTG		UA
6801	COMP+CAN	(H)	16+LTG	(b)(A)	(.060)	UA	6357	COMP+CAN	1/4		6.0TBG		UA
Sapphire Glass Systems Inc. ; Sterling, VA							6358	COMP+CAN	3/8		10.0TBG		UA
7263	COMP+CAN	1/4		6.0TTG		UA	7111	COMP+CAN	1/2		12.0TBG		UA
7264	COMP+CAN	3/8		10.0TTG		UA	6693	COMP+CAN	(H)	10-12LTG	(ip)(A)	(.035)	UA
7265	COMP+CAN	1/2		12.0TTG		UA	7112	COMP+CAN	(H)	16+LTG	(ip)(A)	(.060)	UA
7507	COMP+CAN	3/4		19.0TTG		UA	Shandong Kingtom Glass Co., Ltd. ; Qingdao, Shandong China						
7508	COMP+CAN	(H)	12-16+LTG	(ev)(A)	(.030)	UA	7917	COMP+CAN	1/4		6.0TTG		UA
Saudi American Glass Company ; Riyadh, Saudi Arabia							7918	COMP+CAN	5/16		8.0TTG		UA
6192	COMPOSITE	1/4		6.0TTG		UA	7919	COMP+CAN	3/8		10.0TTG		UA
6193	COMPOSITE	5/16		8.0TTG		UA	7916	COMP+CAN	3/16		5.0TPG		UA
6750	COMPOSITE	(H)	10LTG	(b)(A)	(.060)	UA							
7506	COMPOSITE	(H)	12LTG	(ip)(T)	(.060)	UA							

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Shandong Yaohua Glass Co., Ltd. ; Jinan City, Shandong, China							Shower Doors & More Inc. ; Fort Lauderdale, FL						
7335	COMP+CAN	3/16		5.0TTG		UA	5756	COMPOSITE	3/16		5.0TTG		UA
7336	COMP+CAN	1/4		6.0TTG		UA	5757	COMPOSITE	1/4		6.0TTG		UA
7337	COMP+CAN	3/8		10.0TTG		UA	5758	COMPOSITE	3/8		10.0TTG		UA
7338	COMP+CAN	1/2		12.0TTG		UA	5759	COMPOSITE	1/2		12.0TTG		UA
7967	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	Sichuan CSG Energy Conservation Glass Co., Ltd. ; Chengdu, Sichuan						
Shanghai Bordy Decoration Materials Co., Ltd. ; Shanghai							7050	COMPOSITE	3/16		5.0TTG		UA
7727	COMPOSITE	5/32		4.0TTG		UA	7051	COMPOSITE	1/4		6.0TTG		UA
7728	COMPOSITE	3/16		5.0TTG		UA	7052	COMPOSITE	5/16		8.0TTG		UA
7729	COMPOSITE	1/4		6.0TTG		UA	7053	COMPOSITE	3/8		10.0TTG		UA
7730	COMPOSITE	5/16		8.0TTG		UA	7054	COMPOSITE	1/2		12.0TTG		UA
7731	COMPOSITE	3/8		10.0TTG		UA	7055	COMPOSITE	*		15.0TTG (4)		UA
Shanghai Hangqi Glass Co., LTD. ; Shanghai, China							7056	COMPOSITE	(H)		10-16+LTG (b)(A)	(.030)	UA
6880	COMPOSITE	1/2		12.0TTG		UA	Sierra Glass Fabrication Inc. ; Sparks, NV						
6881	COMPOSITE	3/4		19.0TTG		UA	7670	COMPOSITE	1/8		3.0TTG		UA
6844	COMPOSITE	(H)		12, 16+LTG (b)(A)	(.060)	UA	6186	COMPOSITE	3/16		5.0TTG		UA
Shanghai Haojing Glass Co., Ltd. ; Shanghai, China							SIGCO, Inc. ; Westbrook, ME						
7291	COMP+CAN	1/4		6.0TTG		UA	2961	COMPOSITE	1/8		3.0TTG		UA
7292	COMP+CAN	5/16		8.0TTG		UA	2962	COMPOSITE	5/32		4.0TTG		UA
7293	COMP+CAN	3/8		10.0TTG		UA	2963	COMPOSITE	3/16		5.0TTG		UA
7294	COMP+CAN	1/2		12.0TTG		UA	2964	COMPOSITE	1/4		6.0TTG		UA
7295	COMP+CAN	*		15.0TTG (4)		UA	5213	COMPOSITE	5/16		8.0TTG		UA
7296	COMP+CAN	3/4		19.0TTG		UA	2965	COMPOSITE	3/8		10.0TTG		UA
7581	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.035)	UA	2966	COMPOSITE	1/2		12.0TTG		UA
7297	COMP+CAN	(H)		12-16+LTG (b)(A)	(.030)	UA	4326	COMPOSITE	5/8		16.0TTG		UA
Shanghai SYP Engineering Glass ; Shanghai, China							4327	COMPOSITE	3/4		19.0TTG		UA
4067	COMP+CAN	5/32		4.0TTG		UA	3028	COMPOSITE	3/16		5.0TPG (m)		UA
4068	COMP+CAN	3/16		5.0TTG		UA	4206	COMPOSITE	3/8		10.0TPG (s)		UA
4069	COMP+CAN	1/4		6.0TTG		UA	6012	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
4070	COMP+CAN	5/16		8.0TTG		UA	6013	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
4071	COMP+CAN	3/8		10.0TTG		UA	6014	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.060)	UA
4072	COMP+CAN	1/2		12.0TTG		UA	Simonton Windows ; Ellenboro, WV						
4073	COMP+CAN	*		15.0TTG (4)		UA	2887	COMPOSITE	1/8		3.0TTG		UA
6988	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	2888	COMPOSITE	3/16		5.0TTG		UA
7129	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.035)	UA	5296	COMPOSITE	1/8		3.0TPG (s)		UA
Shanghai Zhenzhen Glassware Co., LTD. ; Shanghai, China							Simonton Windows ; Paris, IL						
6125	COMP+CAN	1/4		6.0TTG		UA	4979	COMPOSITE	1/8		3.0TTG		UA
6126	COMP+CAN	3/8		10.0TTG		UA	4978	COMPOSITE	3/16		5.0TTG		UA
Shape Glass LLC. ; Sarasota, FL							7251	COMPOSITE	1/8		3.0TPG (s)		UA
6502	COMPOSITE	1/8		3.0TTG		UA	Singh Glass & Mirror Inc. dba Luso Glass Company ; Newark, NJ						
6503	COMPOSITE	3/16		5.0TTG		UA	8070	COMPOSITE	3/16		5.0TTG		UA
6504	COMPOSITE	1/4		6.0TTG		UA	8071	COMPOSITE	1/4		6.0TTG		UA
6505	COMPOSITE	3/8		10.0TTG		UA	8072	COMPOSITE	3/8		10.0TTG		UA
6506	COMPOSITE	1/2		12.0TTG		UA	Sisecam Flat Glass Italy S.r.l. ; S. Giorgio Di Nogaro, Udine						
6507	COMPOSITE	3/16		5.0TPG (s)		UA	8132	COMP+CAN	(S)		6LTG (b)(A)	(.015)	UA
6947	COMPOSITE	3/8		10.0TPG (s)		UA	8133	COMP+CAN	(H)		8-12LTG (b)(A)	(.015)	UA
Shenzhen Sun Global Glass Co., Limited ; Shenzhen, Guangdong							Sky Land Tempering Glass Corp ; Long Island City, NY						
6970	COMP+CAN	(H)		8-10LTG (b)(A)	(.060)	UA	5467	COMPOSITE	3/16		5.0TTG		UA
							5468	COMPOSITE	1/4		6.0TTG		UA
							5469	COMPOSITE	3/8		10.0TTG		UA
							5470	COMPOSITE	1/2		12.0TTG		UA

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SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS	SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS
Skyline Design ; Chicago, IL							Stargrup Cam A.S. ; Arnautkoy, Istanbul						
6340	COMP+CAN	1/4		6.0TTG		UA	6204	COMPOSITE	1/4		6.0TTG		UA
6343	COMP+CAN	1/2		12.0TTG		UA	7579	COMPOSITE	5/16		8.0TTG		UA
6347	COMP+CAN	1/4		6.0TPG (s)		UA	6205	COMPOSITE	3/8		10.0TTG		UA
6350	COMP+CAN	1/2		12.0TPG (s)		UA	6206	COMPOSITE	1/2		12.0TTG		UA
Solar Seal Massachusetts ; South Easton, MA							6207	COMPOSITE	(H)	12-16+LTG	(b)(A)	(.030)	UA
3001	COMPOSITE	1/8		3.0TTG		UA	Strong Tempering Glass Industry LLC ; Brooklyn, NY						
1871	COMPOSITE	3/16		5.0TTG		UA	5939	COMPOSITE	3/16		5.0TTG		UA
1035	COMPOSITE	1/4		6.0TTG		UA	5940	COMPOSITE	1/4		6.0TTG		UA
1036	COMPOSITE	3/8		10.0TTG		UA	5942	COMPOSITE	3/8		10.0TTG		UA
1037	COMPOSITE	1/2		12.0TTG		UA	5941	COMPOSITE	1/2		12.0TTG		UA
5527	COMPOSITE	3/4		19.0TTG		UA	Sunfire Glass, Inc. ; Medley, FL						
1939	COMPOSITE	3/16		5.0TPG (s)		UA	7035	COMPOSITE	1/8		3.0TTG		UA
South Bay Showers, Inc. ; Santa Clara, CA							7036	COMPOSITE	3/16		5.0TTG		UA
7252	COMPOSITE	1/4		6.0TTG		UA	7033	COMPOSITE	1/4		6.0TTG		UA
7253	COMPOSITE	5/16		8.0TTG (IN)		UA	7037	COMPOSITE	3/8		10.0TTG		UA
6927	COMPOSITE	3/8		10.0TTG		UA	7405	COMPOSITE	1/2		12.0TTG		UA
6928	COMPOSITE	1/2		12.0TTG		UA	7038	COMPOSITE	3/16		5.0TPG (s)		UA
7254	COMPOSITE	3/8		10.0TPG (s)		UA	Sunglas Technics Co., Ltd. ; Foshan, Guangdong, China						
Southern Wholesale Glass, Inc. ; Americus, GA							8090	COMPOSITE	1/4		6.0TTG		UA
7349	COMPOSITE	1/4		6.0TTG		UA	Swift Glass Co., Inc. ; Elmira Heights, NY						
7350	COMPOSITE	3/8		10.0TTG		UA	1555	COMPOSITE	1/8		3.0TTG		UA
Splendor Shower Door ; Holland, Ohio							1556	COMPOSITE	3/16		5.0TTG		UA
7753	COMPOSITE	5/32		4.0TTG		UA	1557	COMPOSITE	1/4		6.0TTG		UA
7754	COMPOSITE	3/16		5.0TTG		UA	1558	COMPOSITE	3/8		10.0TTG		UA
7755	COMPOSITE	1/4		6.0TTG		UA	1559	COMPOSITE	1/2		12.0TTG		UA
7756	COMPOSITE	3/8		10.0TTG		UA	Syracuse Glass Company, LLC ; Syracuse, NY						
7757	COMPOSITE	1/2		12.0TTG		UA	2654	COMP+CAN	1/8		3.0TTG		UA
7758	COMPOSITE	5/32		4.0TPG (s)		UA	2957	COMP+CAN	3/16		5.0TTG		UA
7759	COMPOSITE	3/16		5.0TPG (m)		UA	2656	COMP+CAN	1/4		6.0TTG		UA
7760	COMPOSITE	1/4		6.0TPG (m)		UA	2958	COMP+CAN	3/8		10.0TTG		UA
7761	COMPOSITE	3/8		10.0TPG (s)		UA	2657	COMP+CAN	1/2		12.0TTG		UA
Standard Bent Glass ; East Butler, PA							6391	COMP+CAN	(S)	6LTG	(b)(A)	(.030)	UA
6300	COMP+CAN	3/16		5.0TTG		UA	6392	COMP+CAN	(H)	8-16+LTG	(b)(A)	(.030)	UA
6301	COMP+CAN	1/4		6.0TTG		UA	6393	COMP+CAN	(H)	8-16+LTG	(ip)(A)	(.060)	UA
6302	COMP+CAN	5/16		8.0TTG		UA	Tacoma Glass Mfg. Inc. ; Burlington, WA						
6303	COMP+CAN	3/8		10.0TTG		UA	5165	COMPOSITE	1/4		6.0TTG		UA
6304	COMP+CAN	1/2		12.0TTG		UA	5166	COMPOSITE	3/8		10.0TTG		UA
7674	COMP+CAN	1/4		6.0TBG		UA	5167	COMPOSITE	1/2		12.0TTG		UA
7675	COMP+CAN	5/16		8.0TBG		UA	Tacoma Glass Mfg. Inc. ; Lakewood, WA						
7676	COMP+CAN	3/8		10.0TBG		UA	4730	COMPOSITE	1/4		6.0TTG		UA
7677	COMP+CAN	1/2		12.0TBG		UA	4731	COMPOSITE	3/8		10.0TTG		UA
7537	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA	4732	COMPOSITE	1/2		12.0TTG		UA
6305	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	Tai Shan City Da Heng Art Glass Ltd. ; Tai Shan, Guangdong, China						
7538	COMP+CAN	(H)		10-16+LTG (ip)(A)	(.035)	UA	3787	COMP+CAN	1/8		3.0TTG		UA
6306	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA							
Stanley Glass Co., Ltd. ; Keelung, Taiwan													
7733	COMP+CAN	(H)		10-16+LSP (b)(HS)(A)x2(HS)(.030)x2		UA							
7734	COMP+CAN	(H)		12,16+LSP (b)(HS)(A)x4(HS)(.030)x3		UA							

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Tai Sheng (Dong Guan) Glass Co.,Ltd ; Dongguan, Guangdong, China							TEMCOR S. DE RL DE CV ; H. Matamoros, Tamps Mexico						
6140	COMP+CAN	1/8		3.0TTG		UA	8051	COMPOSITE	3/8		10.0TTG		UA
4870	COMP+CAN	5/32		4.0TTG		UA	8050	COMPOSITE	1/2		12.0TTG		UA
5487	COMP+CAN	3/16		5.0TTG		UA	Temp Glass Inc. ; El Paso, TX						
4872	COMP+CAN	1/4		6.0TTG		UA	6698	COMPOSITE	3/16		5.0TTG		UA
4873	COMP+CAN	5/16		8.0TTG		UA	6699	COMPOSITE	1/4		6.0TTG		UA
5486	COMP+CAN	3/8		10.0TTG		UA	6700	COMPOSITE	3/8		10.0TTG		UA
5604	COMP+CAN	1/2		12.0TTG		UA	6701	COMPOSITE	1/2		12.0TTG		UA
6141	COMP+CAN	1/8		3.0TPG (s)		UA	Tempco Glass ; Flushing, NY						
5067	COMP+CAN	5/32		4.0TPG (m)		UA	6715	COMPOSITE	1/8		3.0TTG		UA
5488	COMP+CAN	3/16		5.0TPG (m)		UA	5010	COMPOSITE	3/16		5.0TTG		UA
5068	COMP+CAN	1/4		6.0TPG (m)		UA	5011	COMPOSITE	1/4		6.0TTG		UA
6054	COMP+CAN	3/16		5.0TBP (s)		UA	7285	COMPOSITE	5/16		8.0TTG		UA
6053	COMP+CAN	3/16		5.0TBG		UA	5012	COMPOSITE	3/8		10.0TTG		UA
6055	COMP+CAN	1/4		6.0TBG		UA	5013	COMPOSITE	1/2		12.0TTG		UA
6142	COMP+CAN	5/16		8.0TBG		UA	Templado S.A.S. ; Barranquilla, Colombia						
Technical Glass Company ; Jeddah, Western							6338	COMPOSITE	(H)		10-16+LTG (ip)(A)	(.035)	UA
7952	COMP+CAN	1/4		6.0TTG		UA	Templados Del Centro SA DE C.V. ; Irapuato, Guanajuato, Mexico						
7953	COMP+CAN	5/16		8.0TTG		UA	6170	COMP+CAN	(H)		10LTG (b)(A)	(.060)	UA
7954	COMP+CAN	3/8		10.0TTG		UA	6019	COMP+CAN	(H)		12LTG (b)(A)	(.030)	UA
7955	COMP+CAN	*		12.0TTG (7)		UA	Tengzhou Fenghua Glass Co., LTD ; Tengzhou, China						
7956	COMP+CAN	(H)		8,12-16+LTG (b)(A)	(.030)	UA	6418	COMP+CAN	3/16		5.0TTG		UA
Techni-Glass, Inc. ; Surgoinville, TN							6419	COMP+CAN	1/4		6.0TTG		UA
2547	COMP+CAN	1/8		3.0TTG		UA	6420	COMP+CAN	5/16		8.0TTG		UA
2548	COMP+CAN	5/32		4.0TTG		UA	6421	COMP+CAN	3/8		10.0TTG		UA
2549	COMP+CAN	3/16		5.0TTG		UA	6422	COMP+CAN	1/2		12.0TTG		UA
2975	COMP+CAN	1/4		6.0TTG		UA	6424	COMP+CAN	5/32		4.0TPG (s)		UA
3062	COMP+CAN	3/8		10.0TTG		UA	6425	COMP+CAN	3/16		5.0TPG (s)		UA
4509	COMP+CAN	1/2		12.0TTG		UA	6426	COMP+CAN	1/4		6.0TPG (s)		UA
4510	COMP+CAN	5/8		16.0TTG		UA	6427	COMP+CAN	3/8		10.0TPG (s)		UA
3061	COMP+CAN	1/8		3.0TPG (m)		UA	7936	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
5050	COMP+CAN	5/32		4.0TPG (m)		UA	TG Taicang Architectural Glass Co. Ltd ; Taicang City, Jiangsu						
2550	COMP+CAN	3/16		5.0TPG (m)		UA	7446	COMP+CAN	3/16		5.0TTG		UA
3060	COMP+CAN	1/4		6.0TPG (s)		UA	7447	COMP+CAN	1/4		6.0TTG		UA
Tecnoglass S.A.S. ; Barranquilla, Colombia							7448	COMP+CAN	5/16		8.0TTG		UA
2133	COMP+CAN	1/8		3.0TTG		UA	7449	COMP+CAN	3/8		10.0TTG		UA
2287	COMP+CAN	5/32		4.0TTG		UA	7450	COMP+CAN	1/2		12.0TTG		UA
1993	COMP+CAN	3/16		5.0TTG		UA	7432	COMP+CAN	(H)		8LTG (b)(A)	(.090)	UA
1994	COMP+CAN	1/4		6.0TTG		UA	7058	COMP+CAN	(H)		8LTG (ip)(A)	(.090)	UA
2134	COMP+CAN	5/16		8.0TTG		UA	7433	COMP+CAN	(H)		10-12LTG (b)(A)	(.060)	UA
1995	COMP+CAN	3/8		10.0TTG		UA	6774	COMP+CAN	(H)		10LTG (ip)(A)	(.035)	UA
2135	COMP+CAN	1/2		12.0TTG		UA	The Original Frameless Shower Door ; Coral Springs, FL						
2365	COMP+CAN	5/8		16.0TTG		UA	4662	COMPOSITE	3/8		10.0TTG		UA
2894	COMP+CAN	3/4		19.0TTG		UA	4663	COMPOSITE	1/2		12.0TTG		UA
4003	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	Thermal Seal Insulating Glass ; Uxbridge, MA						
Tecnovidrio S.A. de C.V. ; Colonia Granjas Mexico, Delegacion Iztacalco							5731	COMPOSITE	1/8		3.0TTG		UA
7272	COMP+CAN	1/4		6.0TTG		UA	5732	COMPOSITE	5/32		4.0TTG		UA
7273	COMP+CAN	3/8		10.0TTG		UA	5733	COMPOSITE	3/16		5.0TTG		UA
7274	COMP+CAN	1/2		12.0TTG		UA	5734	COMPOSITE	1/4		6.0TTG		UA
7275	COMP+CAN	3/4		19.0TTG		UA	5735	COMPOSITE	3/8		10.0TTG		UA
7256	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA	5736	COMPOSITE	1/2		12.0TTG		UA
							5730	COMPOSITE	1/8		3.0TPG (s)		UA

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Thermalsun Glass Products ; Santa Rosa, CA							Tianjin SYP Engineering Glass Co., Ltd. ; Tianjin, China						
6265	COMPOSITE	1/8		3.0TTG		UA	4075	COMP+CAN	3/16		5.0TTG		UA
6266	COMPOSITE	5/32		4.0TTG		UA	4076	COMP+CAN	1/4		6.0TTG		UA
6267	COMPOSITE	3/16		5.0TTG		UA	4077	COMP+CAN	5/16		8.0TTG		UA
6268	COMPOSITE	1/4		6.0TTG		UA	4078	COMP+CAN	3/8		10.0TTG		UA
6269	COMPOSITE	3/8		10.0TTG		UA	4079	COMP+CAN	*		12.0TTG (4)		UA
6270	COMPOSITE	1/2		12.0TTG		UA	4080	COMP+CAN	*		15.0TTG (4)		UA
Thermo BSL ; Riviere-du-loup, QC							4081	COMP+CAN	3/4		19.0TTG		UA
4290	COMP+CAN	1/8		3.0TTG		UA	4084	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
4291	COMP+CAN	5/32		4.0TTG		UA	8035	COMP+CAN	(H)		10-16+LTG (ip)(A)	(.035)	UA
4292	COMP+CAN	3/16		5.0TTG		UA	Tomakk Glass Partners, LLC ; Shreveport, LA						
4293	COMP+CAN	1/4		6.0TTG		UA	7736	COMP+CAN	1/8		3.0TTG		UA
7094	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	7737	COMP+CAN	3/16		5.0TTG		UA
5673	COMP+CAN	(H)		8LTG (b)(A)	(.030)	UA	7738	COMP+CAN	1/4		6.0TTG		UA
5674	COMP+CAN	(H)		10LTG (ip)(A)	(.090)	UA	7739	COMP+CAN	3/8		10.0TTG		UA
Thermover 2017 ; Saint-Leonard (Quebec), Canada							7740	COMP+CAN	1/2		12.0TTG		UA
6977	COMP+CAN	5/32		4.0TTG		UA	Tristar Glass, Inc. ; Catoosa, OK						
6978	COMP+CAN	3/16		5.0TTG		UA	4004	COMPOSITE	1/8		3.0TTG		UA
6979	COMP+CAN	1/4		6.0TTG		UA	4005	COMPOSITE	5/32		4.0TTG		UA
6980	COMP+CAN	3/8		10.0TTG		UA	4006	COMPOSITE	3/16		5.0TTG		UA
7546	COMP+CAN	(S)		6LTG (b)(A)	(.015)	UA	4007	COMPOSITE	1/4		6.0TTG		UA
7548	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA	7072	COMPOSITE	5/16		8.0TTG		UA
7547	COMP+CAN	(H)		10, 16+LTG (b)(A)	(.015)	UA	4008	COMPOSITE	3/8		10.0TTG		UA
Thiele Glas Werk GmbH ; Wermsdorf, Germany							4009	COMPOSITE	1/2		12.0TTG		UA
8065	COMP+CAN	(H)		29LSP (ip)(A)	(.060)X2	UA	7073	COMPOSITE	3/4		19.0TTG		UA
Thompson I.G. LLC. ; Fenton, MI							7590	COMPOSITE	5/32		4.0TPG (s)		UA
5303	COMP+CAN	1/8		3.0TTG		UA	4011	COMPOSITE	3/16		5.0TPG (m)		UA
5304	COMP+CAN	3/16		5.0TTG		UA	5441	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA
5305	COMP+CAN	1/4		6.0TTG		UA	4411	COMPOSITE	(H)		10-16+LTG (b)(A)	(.030)	UA
5298	COMP+CAN	3/8		10.0TTG		UA	Tristar Glass, Inc. ; Grand Prairie, TX						
5299	COMP+CAN	1/2		12.0TTG		UA	5109	COMPOSITE	1/4		6.0TTG		UA
7025	COMP+CAN	(H)		8-12LTG (ip)(A)	(.035)	UA	7225	COMPOSITE	5/16		8.0TTG		UA
Tianjin CSG Energy Conservation Glass Co., Ltd ; Tianjin, China							Tristar Glass, Inc. ; Houston, TX						
4021	COMP+CAN	5/32		4.0TTG		UA	5762	COMPOSITE	1/4		6.0TTG		UA
4022	COMP+CAN	3/16		5.0TTG		UA	7080	COMPOSITE	5/16		8.0TTG		UA
4023	COMP+CAN	1/4		6.0TTG		UA	7081	COMPOSITE	3/8		10.0TTG		UA
4024	COMP+CAN	5/16		8.0TTG		UA	Triton Glass LLC ; Albemarle, NC						
4025	COMP+CAN	3/8		10.0TTG		UA	5690	COMPOSITE	1/8		3.0TTG		UA
4026	COMP+CAN	1/2		12.0TTG		UA	5691	COMPOSITE	3/16		5.0TTG		UA
4027	COMP+CAN	*		15.0TTG (4)		UA	5692	COMPOSITE	1/4		6.0TTG		UA
4028	COMP+CAN	3/4		19.0TTG		UA	5693	COMPOSITE	3/8		10.0TTG		UA
4030	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	5694	COMPOSITE	1/2		12.0TTG		UA
Tianjin Northglass Industrial Technical Co., Ltd ; Tianjin, China							Troy Systems LLC ; Manassas, VA						
5220	COMPOSITE	5/16		8.0TTG		UA	4918	COMPOSITE	3/16		5.0TTG		UA
5221	COMPOSITE	*		12.0TTG (3)		UA	4061	COMPOSITE	1/4		6.0TTG		UA
6044	COMPOSITE	(H)		12LTG (b)(A)	(.060)	UA	4062	COMPOSITE	3/8		10.0TTG		UA
5223	COMPOSITE	(H)		18+LTG (ip)(A)	(.060)	UA	4063	COMPOSITE	1/2		12.0TTG		UA
							5123	COMPOSITE	3/8		10.0TPG (s)		UA

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Trulite Glass & Aluminum Solutions Canada, ULC ; Bois-des-Filion, QC							Trulite Glass and Aluminum Solutions ; Columbus, OH						
6061	COMP+CAN	3/16		5.0TTG		UA	4745	COMPOSITE	1/8		3.0TTG		UA
6062	COMP+CAN	1/4		6.0TTG		UA	4746	COMPOSITE	3/16		5.0TTG		UA
6063	COMP+CAN	5/16		8.0TTG		UA	4747	COMPOSITE	1/4		6.0TTG		UA
6064	COMP+CAN	3/8		10.0TTG		UA	6159	COMPOSITE	3/8		10.0TTG		UA
6065	COMP+CAN	1/2		12.0TTG		UA	4748	COMPOSITE	1/2		12.0TTG		UA
6066	COMP+CAN	5/8		16.0TTG		UA	6165	COMPOSITE	1/8		3.0TPG (m)		UA
6067	COMP+CAN	3/4		19.0TTG		UA	6166	COMPOSITE	5/32		4.0TPG (d)		UA
Trulite Glass and Aluminum Solutions ; Aurora, CO							6167	COMPOSITE	3/16		5.0TPG (m)		UA
5341	COMPOSITE	1/8		3.0TTG		UA	6168	COMPOSITE	1/4		6.0TPG (m)		UA
5348	COMPOSITE	5/32		4.0TTG		UA	6169	COMPOSITE	3/8		10.0TPG (s)		UA
6613	COMPOSITE	3/16		5.0TTG		UA	7459	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA
5343	COMPOSITE	1/4		6.0TTG		UA	7460	COMPOSITE	(S)		6LTG (ip)(A)	(.035)	UA
5344	COMPOSITE	3/8		10.0TTG		UA	7461	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA
5345	COMPOSITE	1/2		12.0TTG		UA	7525	COMPOSITE	(H)		8-16+LTG (ip)(A)	(.035)	UA
5346	COMPOSITE	3/4		19.0TTG		UA	Trulite Glass and Aluminum Solutions ; Fort Worth, TX						
5349	COMPOSITE	3/16		5.0TPG (m)		UA	5397	COMPOSITE	5/32		4.0TTG		UA
5350	COMPOSITE	3/8		10.0TPG (s)		UA	5398	COMPOSITE	3/16		5.0TTG		UA
Trulite Glass and Aluminum Solutions ; Bradenton, FL							5399	COMPOSITE	1/4		6.0TTG		UA
5860	COMPOSITE	3/16		5.0TTG		UA	5400	COMPOSITE	3/8		10.0TTG		UA
4225	COMPOSITE	1/4		6.0TTG		UA	5401	COMPOSITE	1/2		12.0TTG		UA
4226	COMPOSITE	3/8		10.0TTG		UA	6389	COMPOSITE	5/8		16.0TTG		UA
4227	COMPOSITE	1/2		12.0TTG		UA	6388	COMPOSITE	3/4		19.0TTG		UA
7998	COMPOSITE	5/8		16.0TTG		UA	5404	COMPOSITE	3/16		5.0TPG (m)		UA
7999	COMPOSITE	3/4		19.0TTG		UA	5405	COMPOSITE	3/8		10.0TPG (m)		UA
6189	COMPOSITE	3/16		5.0TPG (d)		UA	3603	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA
6190	COMPOSITE	3/8		10.0TPG (s)		UA	5783	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA
Trulite Glass and Aluminum Solutions ; Cheswick, PA							5728	COMPOSITE	(H)		8-16+LTG (ip)(A)	(.035)	UA
1785	COMPOSITE	3/16		5.0TTG		UA	Trulite Glass and Aluminum Solutions ; Grenada, MS						
1786	COMPOSITE	1/4		6.0TTG		UA	2787	COMPOSITE	1/8		3.0TTG		UA
3495	COMPOSITE	5/16		8.0TTG		UA	2788	COMPOSITE	3/16		5.0TTG		UA
1787	COMPOSITE	3/8		10.0TTG		UA	2789	COMPOSITE	1/4		6.0TTG		UA
1788	COMPOSITE	1/2		12.0TTG		UA	2840	COMPOSITE	3/8		10.0TTG		UA
4134	COMPOSITE	5/8		16.0TTG		UA	6769	COMPOSITE	(S)		5LTG (b)(A)	(.030)	UA
4135	COMPOSITE	3/4		19.0TTG		UA	6760	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA
1790	COMPOSITE	3/16		5.0TPG (s)		UA	6615	COMPOSITE	(H)		8LTG (b)(A)	(.060)	UA
4453	COMPOSITE	3/8		10.0TPG (s)		UA	7014	COMPOSITE	(H)		8LTG (ip)(A)	(.090)	UA
Trulite Glass and Aluminum Solutions ; City of Industry, CA							5898	COMPOSITE	(H)		10-12LTG (ip)(A)	(.035)	UA
4184	COMPOSITE	3/16		5.0TTG		UA	4744	COMPOSITE	(H)		10-16+LTG (b)(A)	(.030)	UA
4185	COMPOSITE	1/4		6.0TTG		UA	Trulite Glass and Aluminum Solutions ; Houston, TX						
4186	COMPOSITE	3/8		10.0TTG		UA	5432	COMP+CAN	1/8		3.0TTG		UA
4187	COMPOSITE	1/2		12.0TTG		UA	7018	COMP+CAN	5/32		4.0TTG		UA
4522	COMPOSITE	5/8		16.0TTG		UA	3925	COMP+CAN	3/16		5.0TTG		UA
4371	COMPOSITE	3/4		19.0TTG		UA	5483	COMP+CAN	1/4		6.0TTG		UA
4233	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA	3927	COMP+CAN	3/8		10.0TTG		UA
6010	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA	3928	COMP+CAN	1/2		12.0TTG		UA
6011	COMPOSITE	(H)		10-16+LTG (ip)(A)	(.060)	U A	5477	COMP+CAN	5/8		16.0TTG		UA
							7828	COMP+CAN	3/4		19.0TTG		UA
							5433	COMP+CAN	1/8		3.0TPG (s)		UA
							3931	COMP+CAN	3/16		5.0TPG (m)		UA
							5434	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
							6741	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
							6742	COMP+CAN	(H)		10-16+LTG (ip)(A)	(.035)	UA

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SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS	SGCC#	TEST STD	INCHES (THICKNESS CLASS)	(MM)	TYPE	MAX SIZE CERTIFIED	ANSI CLASS
Trulite Glass and Aluminum Solutions ; Indianapolis, IN							Trulite Glass and Aluminum Solutions ; New Berlin, WI						
4922	COMPOSITE	3/16		5.0TTG		UA	5876	COMPOSITE	1/8		3.0TTG		UA
4923	COMPOSITE	1/4		6.0TTG		UA	5317	COMPOSITE	5/32		4.0TTG		UA
4754	COMPOSITE	3/8		10.0TTG		UA	5318	COMPOSITE	3/16		5.0TTG		UA
4753	COMPOSITE	1/2		12.0TTG		UA	5877	COMPOSITE	1/4		6.0TTG		UA
7086	COMPOSITE	5/8		16.0TTG		UA	5320	COMPOSITE	5/16		8.0TTG		UA
4750	COMPOSITE	3/16		5.0TPG (s)		UA	5321	COMPOSITE	3/8		10.0TTG		UA
Trulite Glass and Aluminum Solutions ; Knoxville, TN							5322	COMPOSITE	1/2		12.0TTG		UA
4209	COMPOSITE	1/8		3.0TTG		UA	5896	COMPOSITE	5/8		16.0TTG		UA
4827	COMPOSITE	5/32		4.0TTG		UA	5897	COMPOSITE	3/4		19.0TTG		UA
4152	COMPOSITE	3/16		5.0TTG		UA	3430	COMPOSITE (S)		6LTG (b)(A)	(.030)	UA	
4153	COMPOSITE	1/4		6.0TTG		UA	5937	COMPOSITE (H)		8-16+LTG (ip)(A)	(.060)	UA	
4158	COMPOSITE	3/8		10.0TTG		UA	5936	COMPOSITE (H)		8-12LTG (b)(A)	(.030)	UA	
4159	COMPOSITE	1/2		12.0TTG		UA	Trulite Glass and Aluminum Solutions ; Orlando, FL						
4207	COMPOSITE	1/8		3.0TPG (m)		UA	5183	COMPOSITE	1/8		3.0TTG		UA
4981	COMPOSITE	5/32		4.0TPG (d)		UA	5185	COMPOSITE	3/16		5.0TTG		UA
4160	COMPOSITE	3/16		5.0TPG (d)		UA	5184	COMPOSITE	1/4		6.0TTG		UA
5134	COMPOSITE	3/8		10.0TPG (m)		UA	5186	COMPOSITE	3/8		10.0TTG		UA
Trulite Glass and Aluminum Solutions ; Las Vegas, NV							5187	COMPOSITE	1/2		12.0TTG		UA
4210	COMPOSITE	1/8		3.0TTG		UA	5680	COMPOSITE	5/8		16.0TTG		UA
4212	COMPOSITE	3/16		5.0TTG		UA	5189	COMPOSITE	1/8		3.0TPG (s)		UA
4213	COMPOSITE	1/4		6.0TTG		UA	5190	COMPOSITE	3/16		5.0TPG (m)		UA
4214	COMPOSITE	3/8		10.0TTG		UA	5191	COMPOSITE	1/4		6.0TPG (m)		UA
4215	COMPOSITE	1/2		12.0TTG		UA	5192	COMPOSITE	3/8		10.0TPG (s)		UA
4216	COMPOSITE	3/4		19.0TTG		UA	3461	COMPOSITE (S)		6LTG (b)(A)	(.030)	UA	
4217	COMPOSITE	1/8		3.0TPG (s)		UA	5484	COMPOSITE (H)		8-16+LTG (b)(A)	(.030)	UA	
4219	COMPOSITE	3/16		5.0TPG (m)		UA	5485	COMPOSITE (H)		10-12LTG (ip)(A)	(.035)	UA	
4220	COMPOSITE	1/4		6.0TPG (s)		UA	Trulite Glass and Aluminum Solutions ; Phoenix, AZ						
4221	COMPOSITE	3/8		10.0TPG (s)		UA	5700	COMPOSITE	1/8		3.0TTG		UA
Trulite Glass and Aluminum Solutions ; Lithia Springs, GA							5701	COMPOSITE	5/32		4.0TTG		UA
6102	COMP+CAN	3/16		5.0TTG		UA	5702	COMPOSITE	3/16		5.0TTG		UA
6103	COMP+CAN	1/4		6.0TTG		UA	5746	COMPOSITE	1/4		6.0TTG		UA
6104	COMP+CAN	3/8		10.0TTG		UA	5703	COMPOSITE	3/8		10.0TTG		UA
6105	COMP+CAN	1/2		12.0TTG		UA	5704	COMPOSITE	1/2		12.0TTG		UA
6106	COMP+CAN	5/8		16.0TTG		UA	7002	COMPOSITE	3/4		19.0TTG		UA
6107	COMP+CAN	3/4		19.0TTG		UA	5705	COMPOSITE	1/8		3.0TPG (s)		UA
6113	COMP+CAN	3/16		5.0TPG (m)		UA	7878	COMPOSITE	5/32		4.0TPG (d)		UA
6114	COMP+CAN	1/4		6.0TPG (m)(IN)		UA	5706	COMPOSITE	3/16		5.0TPG (m)		UA
6115	COMP+CAN	3/8		10.0TPG (s)		UA	6759	COMPOSITE	1/4		6.0TPG (m)		UA
6108	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	5747	COMPOSITE	3/8		10.0TPG (m)		UA
6110	COMP+CAN	(S)		6LTG (ip)(A)(IN)	(.060)	UA	Trulite Glass and Aluminum Solutions ; Salt Lake City, UT						
7563	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	6447	COMPOSITE	1/8		3.0TTG		UA
7564	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.060)	UA	5337	COMPOSITE	3/16		5.0TTG		UA
							5338	COMPOSITE	1/4		6.0TTG		UA
							5339	COMPOSITE	3/8		10.0TTG		UA
							5340	COMPOSITE	1/2		12.0TTG		UA
							7580	COMPOSITE	5/8		16.0TTG		UA
							6006	COMPOSITE	3/16		5.0TPG (m)		UA
							6007	COMPOSITE	1/4		6.0TPG (m)		UA
							6008	COMPOSITE	3/8		10.0TPG (s)		UA

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Trulite Glass and Aluminum Solutions ; Tulsa, OK							U.S. Glass Distributors Inc. ; Enfield, CT						
5687	COMPOSITE	1/8		3.0TTG		UA	5921	COMP+CAN	1/8		3.0TTG		UA
5443	COMPOSITE	5/32		4.0TTG		UA	5922	COMP+CAN	3/16		5.0TTG		UA
5444	COMPOSITE	3/16		5.0TTG		UA	5923	COMP+CAN	1/4		6.0TTG		UA
5445	COMPOSITE	1/4		6.0TTG		UA	5924	COMP+CAN	5/16		8.0TTG		UA
5446	COMPOSITE	3/8		10.0TTG		UA	5925	COMP+CAN	3/8		10.0TTG		UA
5447	COMPOSITE	1/2		12.0TTG		UA	5926	COMP+CAN	1/2		12.0TTG		UA
5688	COMPOSITE	1/8		3.0TPG (s)		UA	5927	COMP+CAN	5/8		16.0TTG		UA
5448	COMPOSITE	5/32		4.0TPG (d)		UA	6157	COMP+CAN	3/4		19.0TTG		UA
5449	COMPOSITE	3/16		5.0TPG (m)		UA	5917	COMP+CAN	5/32		4.0TPG (d)		UA
5451	COMPOSITE	3/8		10.0TPG (s)		UA	5918	COMP+CAN	3/16		5.0TPG (m)		UA
Trulite Glass and Aluminum Solutions ; Woodbridge, ON							5920	COMP+CAN	3/8		10.0TPG (s)(IN)		UA
5507	COMP+CAN	5/32		4.0TTG		UA	7619	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA
5508	COMP+CAN	3/16		5.0TTG		UA	6864	COMP+CAN	(H)		10,16+LTG (ip)(A)	(.035)	UA
5509	COMP+CAN	1/4		6.0TTG		UA	Uniglass ; Riyadh, Saudi Arabia						
5510	COMP+CAN	5/16		8.0TTG		UA	7029	COMPOSITE	1/4		6.0TTG		UA
5511	COMP+CAN	3/8		10.0TTG		UA	7030	COMPOSITE	5/16		8.0TTG		UA
5782	COMP+CAN	1/2		12.0TTG		UA	7031	COMPOSITE	3/8		10.0TTG		UA
5631	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	7032	COMPOSITE	*		12.0TTG (7)		UA
7290	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	7462	COMPOSITE	(H)		12LTG (b)(A)	(.030)	UA
Trulite Glass and Aluminum Solutions ; Youngsville, NC							United Plate Glass Co., Inc. ; Butler, PA						
5517	COMPOSITE	5/32		4.0TTG		UA	2467	COMP+CAN	1/8		3.0TTG		UA
5273	COMPOSITE	3/16		5.0TTG		UA	2468	COMP+CAN	3/16		5.0TTG		UA
5274	COMPOSITE	1/4		6.0TTG		UA	2469	COMP+CAN	1/4		6.0TTG		UA
5518	COMPOSITE	5/16		8.0TTG		UA	2470	COMP+CAN	3/8		10.0TTG		UA
5275	COMPOSITE	3/8		10.0TTG		UA	2471	COMP+CAN	1/2		12.0TTG		UA
5276	COMPOSITE	1/2		12.0TTG		UA	6375	COMP+CAN	5/32		4.0TPG (m)		UA
6009	COMPOSITE	5/8		16.0TTG		UA	6224	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
5277	COMPOSITE	3/4		19.0TTG		UA	6250	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA
5279	COMPOSITE	3/16		5.0TPG (m)		UA	6251	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA
6187	COMPOSITE	3/8		10.0TPG (s)		UA	6225	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
7951	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA	United Plate Glass Company of Charlotte ; Lincolnton, NC						
7599	COMPOSITE	H		8.0LTG (b)(A)	(.030)	UA	3948	COMP+CAN	1/8		3.0TTG		UA
7705	COMPOSITE	(H)		10-16+LTG (ip)(A)	(.060)	UA	4197	COMPOSITE	5/32		4.0TTG		UA
TVITEC ; Cubillo del Sil, Spain							3949	COMP+CAN	3/16		5.0TTG		UA
7573	COMP+CAN	(H)		10LTG (b)(A)	(.060)	UA	3950	COMP+CAN	1/4		6.0TTG		UA
7370	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA	3951	COMP+CAN	3/8		10.0TTG		UA
5519	COMP+CAN	(H)		12, 16+LTG (ip)(A)	(.030)	UA	3952	COMP+CAN	1/2		12.0TTG		UA
Tweddells Inc. ; Santa Ana, CA							3954	COMP+CAN	1/8		3.0TPG (s)		UA
5384	COMP+CAN	1/8		3.0TTG		UA	4636	COMPOSITE	5/32		4.0TPG (m)		UA
4993	COMP+CAN	3/16		5.0TTG		UA	3955	COMP+CAN	3/16		5.0TPG (s)		UA
5385	COMP+CAN	1/4		6.0TTG		UA	United Plate Glass of Maryland LLC ; Frederick, MD						
5386	COMP+CAN	3/8		10.0TTG		UA	7889	COMP+CAN	3/16		5.0TTG		UA
							7890	COMP+CAN	1/4		6.0TTG		UA
							7891	COMP+CAN	3/8		10.0TTG		UA
							7892	COMP+CAN	1/2		12.0TTG		UA
							Unitex Glass Chengdu Co., Ltd ; Chendu, Sichuan, China						
							5462	COMP+CAN	1/8		3.0TTG		UA
							5463	COMP+CAN	5/32		4.0TTG		UA
							5407	COMP+CAN	3/16		5.0TTG		UA
							5408	COMP+CAN	1/4		6.0TTG		UA
							6519	COMP+CAN	5/16		8.0TTG		UA
							5414	COMP+CAN	3/8		10.0TTG		UA
							6520	COMP+CAN	1/2		12.0TTG		UA

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Upstate Glass Tempering Inc. ; Middletown, NY							Vetrodomus SpA ; Brescia, Italy						
4926	COMPOSITE	1/8		3.0TTG		UA	7492	COMPOSITE	1/4		6.0TTG		UA
6068	COMPOSITE	3/16		5.0TTG		UA	7493	COMPOSITE	5/16		8.0TTG		UA
5157	COMPOSITE	1/4		6.0TTG		UA	7494	COMPOSITE	3/8		10.0TTG		UA
4927	COMPOSITE	3/8		10.0TTG		UA	7495	COMPOSITE	(H)		8,10LTG (b)(A)	(.030)	UA
5158	COMPOSITE	1/2		12.0TTG		UA	Vidrio Bisel S.A. de C.V. (Santa Catarina) ; Monterrey, Nuevo Leon, Mexico						
6743	COMPOSITE	5/8		16.0TTG (IN)		UA	4966	COMP+CAN	1/4		6.0TTG		UA
US Glass Company ; Philadelphia, PA							4967	COMP+CAN	3/8		10.0TTG		UA
7692	COMPOSITE	5/32		4.0TTG		UA	View Inc. ; Olive Branch, MS						
7693	COMPOSITE	3/16		5.0TTG		UA	4725	COMPOSITE	1/8		3.0TTG		UA
7660	COMPOSITE	1/4		6.0TTG		UA	4726	COMPOSITE	5/32		4.0TTG		UA
7661	COMPOSITE	3/8		10.0TTG		UA	7961	COMPOSITE	3/16		5.0TTG		UA
7662	COMPOSITE	1/2		12.0TTG		UA	4728	COMPOSITE	1/4		6.0TTG		UA
7864	COMPOSITE	*		15.0TTG (4)		UA	7107	COMPOSITE	5/16		8.0TTG		UA
7865	COMPOSITE	3/4		19.0TTG		UA	7108	COMPOSITE	3/8		10.0TTG		UA
7821	COMPOSITE	*		5.0TBG (4)(IN)		UA	6390	COMPOSITE	(S)		6LTG (b)(A)	(.030)	UA
7822	COMPOSITE	1/4		6.0TBG (IN)		UA	7711	COMPOSITE	(H)		8LTG (b)(A)	(.030)	UA
7823	COMPOSITE	3/8		10.0TBG (IN)		UA	Viewrail ; Goshen, IN						
7824	COMPOSITE	1/2		12.0TBG (IN)		UA	7606	COMP+CAN	3/8		10.0TTG		UA
7866	COMPOSITE	(H)		8-16+LTG (b)(A)	(.015)	UA	7607	COMP+CAN	1/2		12.0TTG		UA
US Glass Tempering Inc. ; San Leandro, CA							Viracon Inc. ; Owatonna, MN						
7156	COMPOSITE	1/8		3.0TTG		UA	4354	COMP+CAN	5/32		4.0TTG		UA
7158	COMPOSITE	5/32		4.0TTG		UA	1403	COMP+CAN	3/16		5.0TTG		UA
7159	COMPOSITE	3/16		5.0TTG		UA	1404	COMP+CAN	1/4		6.0TTG		UA
7157	COMPOSITE	1/4		6.0TTG		UA	3689	COMP+CAN	5/16		8.0TTG		UA
7160	COMPOSITE	3/8		10.0TTG		UA	1508	COMP+CAN	3/8		10.0TTG		UA
7161	COMPOSITE	1/2		12.0TTG		UA	1509	COMP+CAN	1/2		12.0TTG		UA
7996	COMPOSITE	3/8		10.0TPG (s)		UA	1637	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
Valda 90 Ltd. ; Sofia,							4249	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
7748	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	4250	COMP+CAN	(H)		12-16+LTG (ip)(A)	(.060)	UA
7749	COMP+CAN	(H)		8LTG (b)(A)	(.030)	UA	Viracon Inc. ; Statesboro, GA						
Valentini Glass & Components srl ; Brescia, Italy							2314	COMP+CAN	3/16		5.0TTG		UA
2423	COMPOSITE	5/32		4.0TTG		UA	2310	COMP+CAN	1/4		6.0TTG		UA
7825	COMPOSITE	3/16		5.0TTG		UA	4720	COMP+CAN	5/16		8.0TTG		UA
6816	COMPOSITE	1/2		12.0TTG		UA	2311	COMP+CAN	3/8		10.0TTG		UA
4246	COMPOSITE	5/32		4.0TBG		UA	7591	COMP+CAN	1/4		6.0LTG (b)(A)(IN)	(.030)	UA
7826	COMPOSITE	3/16		5.0TBG		UA	4779	COMP+CAN	(H)		8-16+LTG (b)(A)(IN)	(.030)	UA
2898	COMPOSITE	1/4		6.0TBG		UA	4784	COMP+CAN	(H)		12LTG (ip)(A)(IN)	(.090)	UA
Vanbo Glass Industries Inc. ; Surrey, BC							Virginia Glass Products Corp. ; Ridgeway, VA						
8068	COMP+CAN	1/4		6.0TTG		UA	12	COMPOSITE	3/16		5.0TTG (IN)		UA
8069	COMP+CAN	1/2		12.0TTG		UA	14	COMPOSITE	1/4		6.0TTG		UA
Velocity an Apogee Company ; Dallas, TX							93	COMPOSITE	3/8		10.0TTG		UA
7650	COMP+CAN	3/16		5.0TTG		UA	94	COMPOSITE	1/2		12.0TTG		UA
7651	COMP+CAN	1/4		6.0TTG		UA	2182	COMPOSITE	5/8		16.0TTG		UA
Vetreria F. Illi Paci S.R.L. ; Seregno MB Italy							95	COMPOSITE	3/4		19.0TTG		UA
8105	COMPOSITE	1/4		6.0TTG		UA	7989	COMPOSITE	(S)		6LTG (A)(b)	(.030)	UA
7855	COMPOSITE	5/16		8.0TTG		UA	7990	COMPOSITE	(H)		8-16+LTG (A)(b)	(.030)	UA
7856	COMPOSITE	3/8		10.0TTG		UA	5194	COMPOSITE	(H)		10-16+LTG (ip)(A)	(.035)	UA
7857	COMPOSITE	1/2		12.0TTG		UA							
7854	COMPOSITE	(H)		10-12LTG (ev)(A)	(.030)	UA							

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Vistamatic, LLC ; Coral Springs, FL							Vitrum Industries Ltd. ; Langley, BC						
6535	COMPOSITE	5/32		4.0TTG		UA	7723	COMP+CAN	1/8		3.0TTG		UA
6536	COMPOSITE	3/16		5.0TTG		UA	7118	COMP+CAN	5/32		4.0TTG		UA
6537	COMPOSITE	1/4		6.0TTG		UA	7119	COMP+CAN	3/16		5.0TTG		UA
6538	COMPOSITE	3/8		10.0TTG		UA	7117	COMP+CAN	1/4		6.0TTG		UA
6539	COMPOSITE	1/2		12.0TTG		UA	7120	COMP+CAN	5/16		8.0TTG		UA
Vitelsa Mosquera ; Bogota, Cundinamarca, Columbia							7121	COMP+CAN	3/8		10.0TTG		UA
7719	COMPOSITE	3/8		10.0TTG		UA	7122	COMP+CAN	1/2		12.0TTG		UA
7401	COMPOSITE	1/2		12.0TTG		UA	7724	COMP+CAN	*		15.0TTG (4)		UA
6865	COMPOSITE	(H)		8-12LTG (b)(A)	(.030)	UA	7381	COMP+CAN	3/4		19.0TTG		UA
6866	COMPOSITE	(H)		8-16+LTG (ip)(A)	(.035)	UA	7720	COMP+CAN	1/8		3.0TPG (s)		UA
Vitemex ; Reynosa, Tamaulipas Mexico							7721	COMP+CAN	5/32		4.0TPG (m)		UA
5393	COMP+CAN	1/4		6.0TTG		UA	7722	COMP+CAN	3/16		5.0TPG (m)		UA
5394	COMP+CAN	3/8		10.0TTG		UA	7790	COMPOSITE	1/4		6.0TPG (m)		UA
5395	COMP+CAN	1/2		12.0TTG		UA	8022	COMP+CAN	1/4		6.0TBG		UA
Vitralum Glass Solutions Inc. ; Altamonte Springs, FL							7777	COMP+CAN	3/8		10.0TBG		UA
7991	COMPOSITE	3/16		5.0TTG		UA	7699	COMP+CAN	1/2		12.0TBG		UA
7852	COMPOSITE	1/4		6.0TTG		UA	7871	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
7853	COMPOSITE	3/8		10.0TTG		UA	7725	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA
7992	COMPOSITE	3/8		10.0TTG		UA	7726	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA
8107	COMPOSITE	1/2		12.0TTG		UA	7124	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
7993	COMPOSITE	3/4		19.0TTG		UA	Vitrum Industries Ltd. ; Rocky View County (Calgary)						
Vitro Architectural Glass ; Barrie, ON							7530	COMP+CAN	5/32		4.0TTG		UA
5207	COMP+CAN	1/8		3.0TTG		UA	7531	COMP+CAN	3/16		5.0TTG		UA
5204	COMP+CAN	5/32		4.0TTG		UA	7532	COMP+CAN	1/4		6.0TTG		UA
5205	COMP+CAN	3/16		5.0TTG		UA	7533	COMP+CAN	5/16		8.0TTG		UA
5206	COMP+CAN	1/4		6.0TTG		UA	7534	COMP+CAN	3/8		10.0TTG		UA
7083	COMP+CAN	5/32		4.0TPG (m)		UA	7535	COMP+CAN	1/2		12.0TTG		UA
Vitro Flat Glass, LLC ; Carlisle, PA							Viwinco, Inc. ; Morgantown, PA						
250	COMP+CAN	1/8		3.0TTG		UA	3074	COMPOSITE	1/8		3.0TTG		UA
675	COMP+CAN	5/32		4.0TTG		UA	3405	COMPOSITE	3/16		5.0TTG		UA
249	COMP+CAN	3/16		5.0TTG		UA	6803	COMPOSITE	1/8		3.0TPG (s)		UA
382	COMP+CAN	1/4		6.0TTG		UA	6374	COMPOSITE	(H)		8-12LTG (ip)(A)	(.090)	UA
Vitro Flat Glass, LLC ; Wichita Falls, TX							3408	COMPOSITE	(H)		8LTG (b)(A)	(.090)	UA
1110	COMP+CAN	1/8		3.0TTG		UA	W. A. Wilson Inc. ; Wheeling, WV						
1111	COMP+CAN	5/32		4.0TTG		UA	4169	COMPOSITE	1/8		3.0TTG		UA
1112	COMP+CAN	3/16		5.0TTG		UA	4170	COMPOSITE	3/16		5.0TTG		UA
1113	COMP+CAN	1/4		6.0TTG		UA	4171	COMPOSITE	1/4		6.0TTG		UA
3577	COMP+CAN	5/16		8.0TTG		UA	8059	COMPOSITE	5/16		8.0TTG		UA
3578	COMP+CAN	3/8		10.0TTG		UA	4172	COMPOSITE	3/8		10.0TTG		UA
VITRO S.A.B. DE C.V. ; Garcia Nuevo Leon, Nuevo Leon							4173	COMPOSITE	1/2		12.0TTG		UA
7735	COMP+CAN	1/8		3.0TTG		UA	5173	COMPOSITE	1/8		3.0TPG (d)		UA
							4175	COMPOSITE	3/16		5.0TPG (d)		UA
							4176	COMPOSITE	3/8		10.0TPG (s)		UA

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W.C.P., Inc dba West Coast Insulated Glass Products ; Cerritos, CA							Wisconsin Shower Door & Supply Corp ; Menomonee Falls, WI						
6084	COMP+CAN	1/8		3.0TTG		UA	5585	COMPOSITE	1/8		3.0TTG		UA
6085	COMP+CAN	5/32		4.0TTG		UA	5587	COMPOSITE	3/16		5.0TTG		UA
6086	COMP+CAN	3/16		5.0TTG		UA	5588	COMPOSITE	1/4		6.0TTG		UA
6087	COMP+CAN	1/4		6.0TTG		UA	5589	COMPOSITE	3/8		10.0TTG		UA
8181	COMP+CAN	5/16		8.0TTG		UA	5590	COMPOSITE	1/2		12.0TTG		UA
7075	COMP+CAN	3/8		10.0TTG		UA	5592	COMPOSITE	1/8		3.0TPG (s)		UA
7076	COMP+CAN	1/2		12.0TTG		UA	5594	COMPOSITE	3/16		5.0TPG (s)		UA
6088	COMP+CAN	1/8		3.0TPG (s)		UA	5595	COMPOSITE	1/4		6.0TPG (m)		UA
6089	COMP+CAN	5/32		4.0TPG (m)		UA	5596	COMPOSITE	3/8		10.0TPG (m)		UA
6090	COMP+CAN	3/16		5.0TPG (d)		UA	5597	COMPOSITE	1/2		12.0TPG (m)		UA
8014	COMP+CAN	(S)		6LTG (ip)(A)	(.035)	UA	Wolverine Glass Products, Inc. ; Wyoming, MI						
6091	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	8036	COMP+CAN	1/8		3.0TTG		UA
7077	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA	7981	COMP+CAN	5/32		4.0TTG		UA
6092	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	7982	COMP+CAN	3/16		5.0TTG		UA
Whalley Glass Co ; Derby, CT							8037	COMP+CAN	1/4		6.0TTG		UA
6226	COMPOSITE	1/8		3.0TTG		UA	7983	COMP+CAN	5/16		8.0TTG		UA
6227	COMPOSITE	3/16		5.0TTG		UA	7984	COMP+CAN	3/8		10.0TTG		UA
6228	COMPOSITE	1/4		6.0TTG		UA	7985	COMP+CAN	1/2		12.0TTG		UA
6229	COMPOSITE	3/8		10.0TTG		UA	7986	COMP+CAN	1/8		3.0TPG (m)		UA
White Aluminum Enterprises LLC ; Abu Dhabi, United Arab Emirates							7987	COMP+CAN	5/32		4.0TPG (d)		UA
7085	COMPOSITE	5/32		4.0TTG		UA	Woodbridge Glass Distribution Inc. ; Concord, Ontario						
4598	COMPOSITE	1/4		6.0TTG		UA	7896	COMP+CAN	1/8		3.0TTG		UA
4597	COMPOSITE	5/16		8.0TTG		UA	7897	COMP+CAN	5/32		4.0TTG		UA
7477	COMPOSITE	3/8		10.0TTG		UA	7898	COMP+CAN	3/16		5.0TTG		UA
7260	COMPOSITE	(H)		8-16+LTG (b)(T)	(.030)	UA	7899	COMP+CAN	1/4		6.0TTG		UA
7237	COMPOSITE	(H)		8-16+LTG (ip)(T)	(.035)	UA	7900	COMP+CAN	5/16		8.0TTG		UA
Wholesale Glass Dist. ; Memphis, TN							7901	COMP+CAN	3/8		10.0TTG		UA
7703	COMPOSITE	1/8		3.0TTG		UA	7902	COMP+CAN	1/2		12.0TTG		UA
4379	COMPOSITE	3/16		5.0TTG		UA	7903	COMP+CAN	5/32		4.0TPG (m)		UA
4380	COMPOSITE	1/4		6.0TTG		UA	7904	COMP+CAN	3/16		5.0TPG (s)		UA
4381	COMPOSITE	3/8		10.0TTG		UA	7905	COMP+CAN	3/8		10.0TPG (s)		UA
4382	COMPOSITE	1/2		12.0TTG		UA	Woon-Tech Inc. ; Whitinsville, MA						
WHTB Glass, LLC ; Shirley, NY							6364	COMP+CAN	1/8		3.0TTG		UA
7741	COMP+CAN	3/16		5.0TTG		UA	6365	COMP+CAN	5/32		4.0TTG		UA
7742	COMP+CAN	1/4		6.0TTG		UA	6366	COMP+CAN	3/16		5.0TTG		UA
7743	COMP+CAN	5/16		8.0TTG		UA	6367	COMP+CAN	1/4		6.0TTG		UA
7744	COMP+CAN	3/8		10.0TTG		UA	6368	COMP+CAN	3/8		10.0TTG		UA
7745	COMP+CAN	1/2		12.0TTG		UA	6369	COMP+CAN	1/2		12.0TTG		UA
7746	COMP+CAN	3/4		19.0TTG		UA	6370	COMP+CAN	5/8		16.0TTG		UA
7747	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA	6371	COMP+CAN	3/4		19.0TTG		UA
Window Creations, LLC ; Fort Jennings, OH							WSD Glass, Inc. ; Winston-Salem, NC						
8127	COMP+CAN	3/16		5.0TTG		UA	4048	COMPOSITE	3/16		5.0TTG		UA
8128	COMP+CAN	1/4		6.0TTG		UA	4049	COMPOSITE	1/4		6.0TTG		UA
8129	COMP+CAN	3/8		10.0TTG		UA	4052	COMPOSITE	3/8		10.0TTG		UA
8130	COMP+CAN	1/2		12.0TTG		UA	4050	COMPOSITE	1/2		12.0TTG		UA
WinTech ; Monett, MO													
6433	COMP+CAN	1/8		3.0TTG		UA							
6434	COMP+CAN	1/4		6.0TTG		UA							

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Wujiang CSG Huadong Architectural Glass Co., LTD ; Wujiang, Jiangsu, China							Xinyi Glass (Yingkou) Co., Ltd. ; Liaoning, China						
6783	COMPOSITE	5/32		4.0TTG		UA	6848	COMP+CAN	1/4		6.0TTG		UA
6784	COMPOSITE	3/16		5.0TTG		UA	6849	COMP+CAN	5/16		8.0TTG		UA
6785	COMPOSITE	1/4		6.0TTG		UA	6850	COMP+CAN	3/8		10.0TTG		UA
6786	COMPOSITE	5/16		8.0TTG		UA	6851	COMP+CAN	*		12.0TTG (3)		UA
6787	COMPOSITE	3/8		10.0TTG		UA	7373	COMP+CAN	(S)		6LTG (b)(A)	(.015)	UB
6788	COMPOSITE	1/2		12.0TTG		UA	6852	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA
6789	COMPOSITE	*		15.0TTG (4)		UA	7841	COMP+CAN	(H)		8-12LTG (b)(A)	(.015)	UB
6790	COMPOSITE	(H)		8-16+LTG (b)(A)	(.030)	UA	7842	COMP+CAN	(H)		8-16+LTG (ip)(A)	(.035)	UA
Wujiang Golden Glass Technologies, Ltd. ; Wujiang City, China							6853	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA
5251	COMP+CAN	1/4		6.0TTG		UA	Xinyi Group (Glass) Co., Ltd. ; Dongguan, Guangdong, China						
5252	COMP+CAN	5/16		8.0TTG		UA	3085	COMP+CAN	3/16		5.0TTG		UA
5253	COMP+CAN	3/8		10.0TTG		UA	3053	COMP+CAN	1/4		6.0TTG		UA
5254	COMP+CAN	1/2		12.0TTG		UA	4648	COMP+CAN	5/16		8.0TTG		UA
5255	COMP+CAN	*		15.0TTG (4)		UA	3054	COMP+CAN	3/8		10.0TTG		UA
5256	COMP+CAN	3/4		19.0TTG		UA	3055	COMP+CAN	*		12.0TTG (4)		UA
5257	COMP+CAN	(H)		8LTG (b)(A)	(.030)	UA	4179	COMP+CAN	*		15.0TTG (4)		UA
5258	COMP+CAN	(H)		10LTG (ip)(A)	(.035)	UA	3489	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA
Xiamen Shiner Industrial Co., Ltd. ; Xiamen, Fujian							Yakut Cam A.S ; Istanbul, Sancaktepe						
7948	COMP+CAN	3/16		5.0TTG		UA	7957	COMP+CAN	1/4		6.0TTG		UA
7949	COMP+CAN	1/4		6.0TTG		UA	7958	COMP+CAN	5/16		8.0TTG		UA
7950	COMP+CAN	3/8		10.0TTG		UA	7959	COMP+CAN	3/8		10.0TTG		UA
Xiamen Togen Building Products Co., Ltd. ; Fujian, China							7960	COMP+CAN	1/2		12.0TTG		UA
7963	COMPOSITE	3/8		10.0TTG		UA	8092	COMP+CAN	(H)		10-16+LTG (b)(A)	(.030)	UA
7964	COMPOSITE	1/2		12.0TTG		UA	Yao Xiang Glass Product Co. Ltd. ; Foshan, Guangdong, China						
7966	COMPOSITE	(H)		12LTG (b)(A)	(.060)	UA	3736	COMP+CAN	5/32		4.0TTG		UA
7965	COMPOSITE	(H)		16+LTG (ip)(A)	(.035)	UA	3737	COMP+CAN	3/16		5.0TTG		UA
Xianning CSG Energy Conservation Glass Co., LTD. ; Xianning, Hubei, China							3738	COMP+CAN	1/4		6.0TTG		UA
5979	COMP+CAN	3/16		5.0TTG		UA	3739	COMP+CAN	5/16		8.0TTG		UA
6004	COMP+CAN	1/4		6.0TTG		UA	3740	COMP+CAN	3/8		10.0TTG		UA
6005	COMP+CAN	5/16		8.0TTG		UA	3741	COMP+CAN	1/2		12.0TTG		UA
5980	COMP+CAN	3/8		10.0TTG		UA	3742	COMP+CAN	3/16		5.0TBG		UA
5981	COMP+CAN	*		12.0TTG (4)		UA	3743	COMP+CAN	1/4		6.0TBG		UA
5982	COMP+CAN	*		15.0TTG (4)		UA	Yildiz Cam San. Tic. A.S. ; Istanbul, Umraniye						
5983	COMP+CAN	3/4		19.0TTG		UA	7923	COMPOSITE	3/8		10.0TTG		UA
7867	COMP+CAN	(H)		10LTG (b)(T)	(.030)	UA	7924	COMPOSITE	1/2		12.0TTG		UA
Xinyi Glass (Tianjin) Co. Ltd. ; Tianjin, China							7925	COMPOSITE	(H)		10-16+LTG (b)(A)	(.030)	UA
5532	COMP+CAN	3/16		5.0TTG		UA	Yitian (Cattis) Glass Product Co., Ltd ; Foshan, Guangdong, China						
5533	COMP+CAN	1/4		6.0TTG		UA	6452	COMP+CAN	3/16		5.0TTG		UA
5534	COMP+CAN	5/16		8.0TTG		UA	6453	COMP+CAN	1/4		6.0TTG		UA
5535	COMP+CAN	3/8		10.0TTG		UA	6454	COMP+CAN	5/16		8.0TTG		UA
5536	COMP+CAN	1/2		12.0TTG		UA	6455	COMP+CAN	3/8		10.0TTG		UA
6329	COMP+CAN	*		15.0TTG (4)		UA	6456	COMP+CAN	3/16		5.0TBG		UA
5538	COMP+CAN	(S)		6LTG (b)(A)	(.030)	UA	6457	COMP+CAN	1/4		6.0TBG		UA
5539	COMP+CAN	(H)		8-16+LTG (b)(A)	(.030)	UA	6458	COMP+CAN	5/16		8.0TBG		UA

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Yong Feng Tai Foshan City Glas Co., LTD. ; Foshan, Guangdong, China													
6877	COMP+CAN	5/32		4.0TTG		UA							
5890	COMP+CAN	3/16		5.0TTG		UA							
5891	COMP+CAN	1/4		6.0TTG		UA							
5892	COMP+CAN	5/16		8.0TTG		UA							
5893	COMP+CAN	3/8		10.0TTG		UA							
6878	COMP+CAN	3/16		5.0TPG (m)		UA							
7066	COMP+CAN	3/16		5.0TBG		UA							
5894	COMP+CAN	1/4		6.0TBG		UA							
6879	COMP+CAN	5/16		8.0TBG		UA							
Zhangjiagang City Daming Glass Product Co., Ltd ; Zhangjiagang City, Jiangsu													
5464	COMP+CAN	5/16		8.0TTG		UA							
5465	COMP+CAN	3/8		10.0TTG		UA							
5466	COMP+CAN	1/2		12.0TTG		UA							
7048	COMP+CAN	(H)		8-10LTG (ip)(A)	(.035)	UA							
Zhangjiagang Weiyu Fabricated Glassware Co. Ltd. ; Zhangjiagang, Jiangsu, China													
5737	COMP+CAN	1/8		3.0TTG		UA							
5738	COMP+CAN	5/32		4.0TTG		UA							
5739	COMP+CAN	3/16		5.0TTG		UA							
5740	COMP+CAN	1/4		6.0TTG		UA							
7141	COMP+CAN	5/16		8.0TTG		UA							
7142	COMP+CAN	3/8		10.0TTG		UA							
Zhejiang Zhongli Energy Efficient Glass Mfg. Co., Ltd ; Hangzhou, Zhejiang, China													
5077	COMP+CAN	3/16		5.0TTG		UA							
5078	COMP+CAN	1/4		6.0TTG		UA							
5079	COMP+CAN	5/16		8.0TTG		UA							
5080	COMP+CAN	3/8		10.0TTG		UA							
6051	COMP+CAN	(H)		10LTG (b)(A)	(.030)	UA							
Zhongshan Walle Glass Product Co., Ltd ; Zhongshan City, Guangdong Province													
8142	COMPOSITE	1/4		6.0TTG		UA							
8143	COMPOSITE	5/16		8.0TTG		UA							
8144	COMPOSITE	3/8		10.0TTG		UA							

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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)
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Glass Standard Attribute Codes

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

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

Classified Tempered Glass Patterns Key (SD-100)

(Revised 7/27/2020 KB. Approved 7/27/2020 KJ)

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 Jing Jing						S							
Aquatex	AGC	S	S	S	S	S	S							
Aqui	AGC	S	S	S			S			S				
Arctic*	Pilkington		D											
Arena C/SR Arena	Saint Gobain	S	S				S							
Austral*	Pilkington		D											
Autumn	Saint Gobain						S							
Autumn*	Pilkington		M				X							
Bamboo	AGC			D										
Bamboo	Guardian									S				
Bamboo	Shixing			M			S							
Bubble	Guardian	S	S	S		S	S			S				
Cascade	AGC				S	S								
Cast	Saint Gobain									S				
Chantilly*	Pilkington		S											
Charcoal Sticks*	Pilkington		S											
Chinchilla	AGC			S	S	S								
Citrus	AGC	S	S	S										
Contora*	Pilkington		S											
Cotswold*	Pilkington		M				X							
Cross Reeded	AGC		D				M							
Delta	AGC		D				M							
Digital*	Pilkington													
Esto	Guardian						M			M	M			
Estriado/SR Estr	Saint Gobain		M				M							
Etre	Guardian		S				S			S	S			
Everglade*	Pilkington		M				X							
Flax	AGC	M	M, S	S	S	S								
Flemish*	Pilkington		S				M							
Floralite	Guardian		M											
Florex	AGC	M	M											
Florielle*	Pilkington		S											
Flutes	AGC		M	D			D							
Flutex	AGC			D						M				
Glacier	AGC	M	M	D			D			M				
Gluechip	Guardian	M	M	M		M	M							
Ground Glass	AGC	S	S	S			S							
Hammered	AGC	S	S	S			S							
Illusions	AGC	S	S	S			S							
Ima	Guardian						M			M	M			
Industrex	AGC	S	S	S	S	S	S							
Kathedral Klein	AGC	S	S	S			S							
Kathedral Max	Saint Gobain		S	S				S						
Kathedral Min	Saint Gobain		S											
Konfeta	AGC		M											
Krystal Flutes	AGC			D										
Krystal Illusions	AGC	S	S	S			S							
Krystal Industrex	AGC	S	S	S			S			S				
Krystal Serenity	AGC	S	S	S			S							
Krystal Storm	AGC		S	S			S			S				
Laliva weiss	Saint Gobain		S											
Leaf	AGC	M												
Listral A	Saint Gobain		S											

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	Jinjing		S	S			S						
Monumental M	Saint Gobain		D										
Monumental S	Saint Gobain		M										
Morisco*	Pilkington		M										
Niagara	Guardian	M	M	M		M	M			M	M		
Oak*	Pilkington		S										
Optica	Saint Gobain		M										
P-516	Guardian	S	S	S	S	S	S			S	S		
Pattern 62	AGC	S	S	S	S	S							
Pattern 73	AGC	M	M										
Pebbles	AGC		M				M						
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							
Vison	Saint Gobain		S				S		S				
Warwick*	Pilkington		S										
Waterdrop	Saint Gobain		M										
Yacare*	Pilkington		M										

SGCC LIST OF ACCEPTED INTERLAYERS (SD-99)

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.

L1 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) Poly Vinyl Butral	(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		
Generic Code	Description	Supplier	Interlayer Brand	Interlayer Formulations	Weathering Data on file
(b)	Poly Vinyl Butral	Eastman Chemical Company	Saflex IIIIG/Vanceva	Series A, C, D, F, H, M, N, P, R, S, W	✓
		Eastman Chemical Company	Saflex Specialty	Saflex Q, AG, DB/DS	✓
		Eastman Chemical Company	Saflex Composite	Saflex V, K series	✓
		Kuraray	Trosifol SentryGlas Expressions		✓
		Kuraray	Trosifol (formerly Butacite B50-B56)	Clear (B500)	✓
		Kuraray	Trosifol (formerly BG)	Clear/Ultra Clear (B100)	✓
		Kuraray	Trosifol (formerly ES)	Extra Stiff (B130)	✓
		Kuraray	Trosifol (formerly SC)	SC Monolayer (B100)	✓
		Kuraray	Trosifol (formerly XT90)	XT (B140)	✓
		Kuraray	Trosifol	Solar R40 (B900)	✓
		Kuraray	Trosifol	HR100 (B170)	✓
		Chang Chun	Winlite	(0.015)	✓
		Sekisui S-Lec America LLC	Sekisui S-LEC Film & Sekisui S-LEC Acoustic Film	(0.030)	✓
		Everlam S.A.	EVERLAM™	NC 010, LAM52 (0.015)	✓
		Kingboard (FO Gang) Specialty Resins Ltd.	Kingboard	(0.015)	✓
		Zhejiang Decent New Material Co., Ltd.	Architectural PVB	(0.030)	✓
(u)	Polyurethane	SWM International	ArgoBond®	ST-6050 (0.050)	✓
(ip)	Ionoplast	Kuraray	Trosifol SentryGlas®	(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	(.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 OSTER FILM - ASQ1X Extra Clear EVA Film	(0.015)	✓
		SWM International	ArgoBond®	WE-381TF (0.030)	✓
		Satinal SPA	Strato	(0.015)	✓

SGCC LIST OF ACCEPTED INTERLAYERS (SD-99)

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.

L1 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) Poly Vinyl Butral	(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		
Generic Code	Description	Supplier	Interlayer Brand	Interlayer Formulations	Weathering Data on file
(ev)(p)	Ethylene-Vinyl Acetate / Polyethylene	Folienwerk Wolfen GmbH	Evguard® +	(.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/CSG 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	
125 - Intertek/ATI 2524 East Jensen Avenue; Fresno, CA 93706 Attn: Kenny White, Tyler Westerling, Shannon Stein Phone: (559) 233-8705 Fax: (559) 233-8360 Email: kenny.white@intertek.com , Tyler.Westerling@Intertek.com , Shannon.Stein@Intertek.com	250 - Construction Consulting Laboratory Inc. 4751 W. State St. Suite B; Ontario, CA 91762 Attn: Jack Jackson, Chad Jackson Phone: (909) 591-1789 Fax: (909) 627-9020 Email(s): Jack@ccl-west.com , chad@ccl-west.com
Florida	
285 - Fenestration Testing Laboratory 8148 N.W. 74th Avenue; Medley, FL 33166 Attn: Jose Sanchez Phone: (305) 885-3328 Fax: (305) 885-3329 Email: jsanchez@gai.org	850 - PRI Construction Materials Technologies 6412 Badger Drive; Tampa, FL 33610 Attn: Tim Efaw, Brad Grzybowski Phone: (813) 621-5777 Fax: (813) 621-5840 Email: tim.efaw@pri-group.com , brad.grzybowski@pri-group.com
Georgia	Iowa
165 - Intertek/ATI 1701 Westfork Dr. Suite 106; Lithia Springs, GA 30122 Attn: James Blakely, Benjamin Rysak, Heather McGuire Phone: (770) 941-6916 Fax: (770) 941-2930 Email: james.blakely@intertek.com , benjamin.rysak@intertek.com , heather.mcguire@intertek.com	500 - Element Materials Technology 3922 Delaware Avenue; Des Moines, IA 50313 Attn: Adam Scarlett, Brian Escherich, Nathan Mracek Phone: (515) 266-5101 Fax: (515) 262-1910 Email: adam.scarlett@element.com , brian.escherich@element.com , nathan.mracek@element.com
Minnesota	New York
150 - Intertek/ATI 40 51 st Way NE, Suite 100; Fridley, MN 55421 Attn: Dan Johnson, Lukas Bayer, Wendy Rusinyak Phone: (651) 636-3835 Fax: (651) 636-3843 Email: dan.johnson@intertek.com , lukas.bayer@intertek.com , wendy.rusinyak@intertek.com	400 - Intertek 75 Clinton Avenue; Cortland, NY 13045-0950 Attn: Russell Mantey, James Diescher, Matthew Small Phone: (315) 396-9193 Fax: (607) 756-9891 Email: russell.mantey@intertek.com , james.diescher@intertek.com , matthew.small@intertek.com
Ohio	
200 - Bowser-Morner Inc. 4518 Taylorsville Road; Dayton, OH 45424 Attn: Vicki Appora Phone: (937) 236-8805 Fax: (937) 237-9947 Email: vappora@bowser-morner.com	
Pennsylvania	
100 - Intertek/ATI 130 Derry Court; York, PA 17406 Attn: Todd Wilt, Thomas Mickley Phone: (717) 764-7700 Fax: (717) 764-4129 Email: todd.wilt@intertek.com , tom.mickley@intertek.com	800 - NCTL 5 Leigh Dr.; York, PA 17406 Attn: Justin Bupp, Drew Klinedinst Phone: (717) 846-1200 Fax: (717) 767-4100 Email: jbupp@nctlinc.com , DKlinedinst@nctlinc.com
911 - Molimo 1410 Eden Road; York, PA 17402 Attn: Lance Cunningham, Mike Stremmel, Steve Eveler Phone: (724) 275-7100 Fax: (724) 275-7102 Email: lcunningham@molimo.net , mstremmel@molimo.net , seveler@molimo.net	103 - Intertek/ATI 1140 Lincoln Avenue; Springdale, PA 15144 Attn: Sandy DiCaro, Steve Shank Phone: (724) 275-7100 Fax: (724) 275-7102 Email: Sandra.DiCaro@Intertek.com , Stephen.Shank@Intertek.com

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

Texas

175 – Intertek/ATI

1909 10th St, Suite 100; Plano, TX 75074

Attn: Cassandra Matthews, Fred Munoz

Phone: (469) 814-0687

Email: vappora@bowser-morner.com, lucio.munoz@intertek.com

Washington

195 - Intertek/ATI

22155 68th Avenue South; Kent, WA 98032-1937

Attn: Patricia Cain

Phone: (253) 395-5656

Email: patricia.cain@intertek.com

750 - National Certified Testing Labs – Northwest

3310 Hill Avenue; Everett, WA 98201

Attn: Amy Becker, Serge Paquet

Phone: (425) 259-6799 Fax: (425) 259-4936

Email: abecker@nctlinc.com, spaquet@nctlinc.com

Canada

450 - Intertek

1829 32nd Avenue; Lachine, QC, Canada HBT 3J1

Attn: Claude Pelland, Sergiu Toaca, Kal Kooner

Phone: (514) 631-3100 x277 Fax: (514) 631-1133

Email: Claude.pelland@intertek.com, sergiu.toaca@intertek.com,
Kal.kooner@intertek.com

950 - Intertek

1500 Brigantine Drive, Coquitlam, BC, Canada V3K 7C1

Attn: Baldeep Sandhu, Chris Chang

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chris.e.chang@intertek.com