



safety glazing certification council

JANUARY 1, 1993

certified products directory
safety glazing material used in buildings

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MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Safety Glazing Certification Council last met on April 1-2, 1992. Minutes of this meeting may be obtained by writing to the Administrative Manager of the Safety Glazing Certification Council (SGCC).

* * * * *

Certification in this directory is current as of January 1, 1993; 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.

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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SGCC CERTIFICATION COMMITTEE

J. Richard Orton - Chairman

Licensee	Primary Member	First Alternate	Second Alternate
ACI Glass			
ACI Glass Products	Kenny Lyerla	Gordon Lillie	Bill Swanson
AFG Glass, Inc.	Brian J. Burnet		
AFG Industries Inc.	J. Richard Orton	Billie G. Nichols	
All Team Glass & Mirror Ltd			
American Flat Glass Distributors	J. Richard Orton		
Anglass Industries, Inc.			
Arch Aluminum & Glass Co Inc			
Arch Tempered Glass Products			
Ardco, Inc.	Andrew G. Menke		
Canadian Insul-Glass Corp			
Cameron Glass, Inc.	Jim Cameron	John Alajaji	
Cardinal IG			
Cardinal TG			
Colonial Mirror & Glass Corp			
Contour Inds Inc.			
CoraGlass Inc.			
D & S Tempered Glass			
Donnelly Corp.			
Downey Glass Company			
EFCO Corp	Luis O. Soto	Robert A. Mastrapa	Jon Khodadadi
Flex-O-Glass, Inc.	Harold G. Warp	Alfred R. Hunsicker	
Floral Glass & Mirror, Inc.	Charles Kaplanek		
Four Seasons Solar Products			
Free State Glass Industries	Ronald H. Bodnar	F. Scott Merritt	
Gemtron Corp.	Robert A. Moss	Jack Francis	Bill Long
Glass Factory, Inc., The			
Glasstemp, Inc.	Steve Lacey	William Pupp	
Globe-Amerada Glass Co (Assurance)	Cheri Kellman	Walt Myers	
Guardian Fabrication, Inc.	Lawana Morrison	Henry A. Gorry	John Jablonski
Guardian Industries Corp.	Lawana Morrison	Henry A. Gorry	John Jablonski
Hamilton Glass Products, Inc.	Robert A. Moss	William D. Hodgdon	J. Bruce Crockett
Hankuk Glass Industries Inc	Seong Man Kim	Tae Hyun Cho	Kwang Deuk Lee
HGP Industries	Robert B. Williams		
Hoffer's, Inc.	Gary J. Johnson	Gene Kressel	Scott Converse
Kuhl Glass Corp.	Scott D. Kuhl		

SGCC CERTIFICATION COMMITTEE

Licensee	Primary Member	First Alternate	Second Alternate
Laminated Glass Corp.	Valerie Block	Darrell Aldrich	
Libbey-Owens-Ford Co	James E. Davis	Kevin Mikesell	
Macdonald Mirror Inc.			
Marvin Windows	James Krahn	Doug Steinbring	
Milgard Tempering Inc.			
Nashville Tempered Glass Corp.			
Northwest Aluminum Products, Inc.			
Northwestern Industries, Inc.	Tim McQuade	James Livingston	Henry Heiss
Pan Lam Industries			
Perilstein Distributing Corp			
PPG Industries, Inc.	Richard T. McGuire	Charles R. Sutermeister	Bradley P. Boone
Saint Gobain			
Shaw Glass Company, Inc.	Frederic P. Shaw	Dennis Johnson	Walter Gilpatrick
Sovis S A			
Spectrum Glass Products	Dennis Peters	Dan Lohman	
Sterling Plumbing Group			
Sumitec, Inc.	Shigeo Minami	Gaston G. Leoni	David H. Taylor
Sunbelt Glass Inc.	Mike Kelley		
Swift Glass Company, Inc.	Daniel J. Burke	Anthony Speciale	Wayne Brown
Taylor Products, Inc.			
Temp-Tech Industries, Inc.	Bart Semeraro		
Tempered Glass, Inc.	Douglas A. Sampsel	W. Eugene	
Tempglass, Inc.	William Coddington	John Colapietro	
Tempglass Eastern, Inc.	William Coddington	John Colapietro	
Tempglass Miami	William Coddington	John Colapietro	
Tempglass Southern, Inc.	William Coddington	John Colapietro	
TRACO (Three Rivers Aluminum)	Robert P. Randall	John Kalakos	
U S Precision Glass	John M. Barr	John M. Spiro	
Viracon, Inc.	Lyle Krohnberg	Russ Huffer	Rick Voelker
Virginia Glass Products Corporation	Robert L. Brown	Brooks R. Leavitt	A. P. Stillman

Member by virtue of being a director:

National Bureau of Standards	Mario Cellarosi
Consumer	Mrs. Jean Cornwell
Consumer	George L. Graf, Jr.
University of Missouri - Rolla	Richard A. Behr
Glasstech, Inc.	Norman Nitschke

Members from those without
certified products:

Richard E. Wright Associates	Richard E. Wright
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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.

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

American National Standard for Safety Glazing Materials used in
Buildings - Safety Performance Specifications and Methods of Test:
ANSI Z97.1-1984

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

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 and register the form of a manufacturer's label; and to withdraw the manufacturer'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, the public interest directors are empowered to veto any action of the board 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 manufacturer of safety glazing materials.

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

This directory is divided into three basic listings: the first is by numerical sequence of certified product numbers listing the manufacturer holding that number; the second is of manufacturers listed alphabetically by plants and the approved products manufactured at those plants; the third is by product type listing all manufacturers and their plants approved for each product type. There is also an alphabetical listing, by manufacturers, illustrating a label typical of the manufacturer. The table of contents lists various procedural and administrative information, as well as information as to where officers and directors may be located.

Upon request, information from SGCC concerning a statement of procedures, or copies of minutes, are available to manufacturers, public interest groups, and individuals.

PROCEDURAL GUIDE

FOREWORD

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

Both ANSI Z97.1-1984 and 16 CFR 1201 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 insure 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 manufacturer's assurance his safety glazing material has been produced in conformance to ANSI Z97.1-1984 and/or 16 CFR 1201.

Federal law, many state statutes, municipal ordinances and building codes require glazing materials, installed in certain defined locations, comply with ANSI Z97.1-1984 and/or 16 CFR 1201.

WHO CAN BECOME A LICENSEE?

Every manufacturer of safety glazing materials is eligible, on a voluntary basis, to participate.

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 Z97.1-1984 and/or 16 CFR 1201.

ADMINISTRATION

ETL Testing Laboratories, Inc. (ETL), is the independent Administrator of the Certification Program. ETL maintains the SGCC office of certification and conducts the routine day-to-day business. All transactions are done in the name of SGCC.

HOW CAN YOU BECOME A LICENSEE?

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

- a) The manufacturer signs two copies of the SGCC License Agreement (including notarization of the Affidavit, Appendix A) and sends these to SGCC. SGCC will countersign both copies and return one to the manufacturer.
- b) The manufacturer directs an SGCC approved testing laboratory, of its own choosing, to send SGCC one copy of a valid test report indicating the 'initial' or 'prototype' samples submitted for testing are in full and complete compliance with ANSI Z97.1 and/or 16 CFR 1201.
- c) The manufacturer sends to SGCC the six-month certification fee for each item which is to be certified.

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.

HOW THE CERTIFICATION PROGRAM WORKS

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

SGCC recognized approved testing laboratories conduct all tests. 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. Routine evaluation samples are tested by an approved testing laboratory selected, with the concurrence of the administrator, by the licensee.

ADMINISTRATOR AUTHORIZES CERTIFICATION

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

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

PRODUCTS LISTED IN CERTIFIED PRODUCTS DIRECTORY

Approved products are listed in a Certified Products Directory, published every six months, which is sent to door, sash and building products manufacturers, glazing contractors, home builders, architects, regulatory agencies and code-making groups, etc. Directory listings contain the licensee's name, plant location, product description and examples of a label typical of that permanently affixed by a licensee to each piece of safety glazing material certified by SGCC.

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

COMPLIANCE SAFEGUARDS

HOW IS COMPLIANCE ASSURED

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

CHALLENGING A CERTIFIED PRODUCT

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

WITHDRAWAL OF CERTIFIED PRODUCT

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

COSTS

WHAT DOES THE PROGRAM COST?

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

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

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

No testing is necessary during the initial 6-month period if prototype testing took place within 30 days of initial certification. Normal inspection may take place during this initial period, however,

Initial certification during the first 3 months of the initial 6-month period will require a selection in the first 3 months of the following 6 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 preissued certification number bond informs a licensee of the certification number of an item to be certified in the future. If the licensee marks production with the certification number, prior to actual certification, the bond is forfeited to SGCC.

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

ADMINISTRATIVE SERVICE AGREEMENT

This agreement, entered into by SGCC and ETL Testing Laboratories, Inc., governs the relationship between SGCC and ETL, the independent administrator. In general, it provides that the Administrator

- a) samples certified products routinely;
- b) has the right to witness any and all testing required by the program;
- c) reviews all test reports in order to determine compliance of the certified product with the applicable specification(s);
- d) inspects and approves all in-plant and test laboratory test facilities for use in this Certification Program (test laboratories are approved by the SGCC Certification Committee);
- e) publishes and mails the SGCC certified products directory on or about January 1 and July 1 of each year;
- f) handles all routine clerical duties of SGCC with respect to certification matters;

- g) acts as SGCC treasurer, invoices licensees, maintains a bank account and disburses funds (fiscal reports are made to the SGCC Certification Committee);
- h) furnishes all testing except for initial or prototype tests;
- i) attends all scheduled meetings of the SGCC Certification Committee and;
- j) in all of its actions, acts in the name of SGCC.

CERTIFIED PRODUCTS DIRECTORY

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

CERTIFICATION LABEL

The certification label, containing a number that refers to the listing in the Certified Products Directory, is permanently affixed to each piece of certified safety glazing material by the licensee. The listing, in the directory, provides a complete product description including licensee's name, plant 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;
- e) recommends to the SGCC Board of Directors changes to be made in the license agreement.

COMMUNICATIONS

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

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Mr. John G. Kent
Administrative Manager
ETL Testing Laboratories, Inc.
Industrial Park 3933 US Route 11
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Telephone: 607-753-6711

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 Z97.1-1984 and/or 16 CFR 1201 will be accepted from any testing laboratory approved by the SGCC Certification Committee.

G.3 (ANSI ONLY)
Paragraph (1) Section 5.1.3 of ANSI Z97.1-1984 is intended to apply to laminated, wired and organic coated glass only. Paragraph (2) is intended to apply to tempered glass only. Paragraph (3) is intended to apply to plastics only. Paragraph (4) is intended to apply to any safety glazing material.

G.4
For insulating glass units to be considered safety glazing material, each light 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 labelled. The administrator shall construe the absence of a correct permanent label as a failure to comply with the specifications. In such case of noncompliance, Sections a, c, and e of G.11 shall be followed. (Revised 3/16/90)
- b) The laboratory shall verify that the label has the correct SGCC number, designation of the applicable specification(s) and CPSC categories, nominal thickness, and certified size designation (U or L).
- 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. 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.

(ANSI ONLY)

- e) As of July 1, 1985 the SGCC permanent label must contain ANSI Z97.1-1984 in order to be considered a correct permanent label for purposes of Guideline G.6.

G.7 (ANSI ONLY)

Safety glazing materials for which certification is requested for indoor use only shall be subjected to the provisions of section 5.1 (impact tests) and 5.4 (aging tests) of ANSI Z97.1-1984 irrespective of the composition or construction of the glazing material. Like products and materials produced in the same manner as samples submitted for test shall be legibly and permanently marked in one corner with the words "Indoor Use Only" and the SGCC identification number.

G.8 (ANSI ONLY)

After initial compliance with a sample size as stated in Paragraph 4.3, testing of other sizes which represent the sizes manufactured may be allowed, provided however that all sizes produced up to the size provided by Paragraph 4.3, ANSI Z97.1-1984 are exposed to selection for testing.

G.8 (CPSC ONLY)

After initial compliance with a sample size as stated in Table 1, testing of other sizes which represent the sizes manufactured may be allowed, provided however that all sizes produced up to the size provided in the standard 16 CFR 1201 are exposed to selection for testing.

G.9

Specimen sizes up to 34 inches by 77 inches shall be valid samples when independently obtained by the administrator for purposes of routine evaluation.

G.10

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

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

G.11

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

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

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

- b) Within 3 months the administrator shall obtain an additional random sample for evaluation (in addition to the routine evaluation sample obtained twice a year). The administrator shall be certain that this additional sample is of recent production.
- c) At the option of the administrator, specimens submitted under a) above shall be either prototype size and pattern or identical to those previously sampled and of recent production.
- d) Certification shall be removed if the additional random sample obtained in b) above fails to comply with the specifications.
- e) All costs related to G.11 are to be borne by the licensee.
- f) If the retest procedure is required, all routine inspections and sample selections will continue. However, routine testing for the next period will be suspended pending the outcome of the retest procedure. If the product is decertified, the prepaid fee for routine testing for the next period (but not the Administrative and Contingency fees) will be refunded.

G.12

If a licensee who manufactures 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

In cases where a certified item is produced infrequently or in small quantities so as to make it difficult for the administrator to obtain routine evaluation samples, the licensee shall notify the administrator at least two weeks in advance of any production of such item.

G.14

The semi-annual invoicing date for certification fees shall be April 1 and October 1 of each year and the administrator is instructed to take those steps necessary to remove certification from Licensees for failure of payment. (Modified 10/20/89)

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

The invoice procedures will be as follows:

- a) Semi-Annual SGCC invoices will be mailed on or before April 1 and October 1 of each year. Payment is due May 1 and November 1 respectively.

- b) For all overdue invoices as of May 1 and November 1, a phone call will be made as a reminder and to insure the invoice was received by the Licensee. A letter will follow the phone call.
- c) For all overdue invoices as of May 15 and November 15, an overnight letter, return receipt requested, will be sent warning of de-certification if payment is not received within 15 days.
- d) Letters of de-certification will be sent certified mail fifteen (15) days from the mailing of the overnight letter if payment is not received. With de-certification, a Licensee will no longer be an SGCC participant and its certified products will not appear in the CPD.

G.15

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

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 two decimal places, and will have the suffix "mm."

G.17

All safety glazing materials that are not symmetrical from surface to surface shall be impacted two specimens on one side and two specimens on the other side.

G.18

Certified and permanently labeled safety glazing materials such as laminated glass, wired glass, rigid plastic or organic coated glass may be cut into smaller pieces by a distributor or installer after manufacture and it is not practical for each such smaller piece to bear a manufacturer's permanent label when finally installed in a building. When this is the case, then 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.

For the purpose of this guideline, a permanent label is defined as one that will remain permanently legible and would be destroyed in attempts to remove it from the product.

G.19 (Deleted 10/20/89)

G.20

For certification purposes a panel of glazing material composed of multiple components (such as leaded glass) may be tested and interpreted as a unit.

G.21

A preissued SGCC certification number shall be issued by the administrator upon receipt of a properly executed license agreement and a properly executed bond form in the amount of \$10,000. The preissued SGCC certification number, if not used by the licensee, will be terminated twelve months from the date of issue. The condition of the bond is such that if the licensee does not label any safety glazing material with the preissued certification number prior to formal certification then the bond shall be void.

G.22

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

- a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.
- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1984 and/or 16 CFR 1201 for each alternate pattern proposed.
- c) The certification committee is provided with a 6 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 particular product be submitted for the retest sample required by Guideline G.11a and also that particular product be sampled by the administrator for the additional sample required by Guideline G.11b.

G.23

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

- a) Prior to or within 2 weeks after the shutdown, the licensee shall inform the SGCC administrator by certified mail.
- b) The SGCC administrator will immediately supply the licensee with test release bond forms for submission by the licensee. A separate bond shall be submitted for each certified product affected.
- c) Within 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 terminate 90 days after acceptance by SGCC but may be renewed by the licensee any number of times. Renewal is an obligation of the licensee and requires all steps listed herein.
- e) Within one week after re-activation of the production facility the licensee shall 1) notify the SGCC administrator by certified mail and 2) submit samples from the first weeks production to an SGCC approved laboratory for testing. In cases where more than one certified product is produced with the same equipment, samples of each must be furnished for testing within the first month. These will be considered as the routine samples for retesting for the six months period during which they are submitted.
- f) Failure of the licensee to comply with any of the preceding shall be the basis for removal of certification from the affected products.

G.24

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

G.25 (ANSI ONLY)

When a licensee specifically and voluntarily desires to use a SGCC permanent label on their product that denotes compliance with ANSI Z97.1-1966, ANSI Z97.1-1972, ANSI Z97.1-1975, and ANSI Z97.1-1984 or combination thereof, that they notify SGCC in writing of the certified item that they desire to so mark. SGCC will, at the request of the licensee, conduct compliance tests to ANSI Z97.1-1966, ANSI Z97.1-1972, ANSI Z97.1-1975 and ANSI Z97.1-1984 or combination thereof. A single set of four test specimens will be impacted to determine impact test requirements of all standards. Upon successful completion of compliance tests the safety glazing materials are permanently labeled and listed in the SGCC certified products directory as having met the requirements of 1966, 1972, 1975 and 1984 versions or combination thereof the ANSI Z97.1 standard. Any costs involved shall be paid by the licensee.

G.26

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

G.27

A licensee, by executing a supplementary license agreement, can elect to be in both ANSI Z97.1-1984 and 16 CFR 1201 programs under one SGCC number provided the licensee submits four specimens to be impact tested to ANSI Z97.1-1984 and one specimen to be impact tested to 16 CFR 1201 (all safety glazing materials that are not symmetrical from surface to surface, shall be impacted one specimen on one side and one specimen on the other side for 16 CFR 1201). If any one specimen of the composite sample fails, the entire composite sample will be considered to have failed to comply with both specifications.

G.28

The administrator shall construe noncompliance with thickness tolerance as a failure to comply with the specifications. In such cases of noncompliance, Sections a, c, and e of G.11 shall be followed.

G.29

For the purposes of certification, the thickness requirements of Specification ASTM C1036 shall apply.

G.30

For certification purposes, the minimum thickness shall be 0.092 and the maximum thickness shall be 0.108 inches for 0.100 inch glass.

G.31

For certification purposes, the nominal thickness of single strength patterned glass shall be 0.094 inches and thickness tolerances shall be plus 0.047 inches and minus 0.015 inches.

G.32 (CPSC ONLY)

When testing to category II requirements, the administrator shall select specimens greater than 9 square feet in surface area.

G.33

If a manufacturing plant for which a product is certified is sold by the licensee, the new owner 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 owners 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 owner's.

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

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.) Four specimens shall be used for impact testing as detailed at 16 CFR 1201.4(a)(1).

T.2

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

T.3

Certification of regular tempered glass will also cover tinted, heat absorbing, and coated glasses of the same nominal thickness where the coating does not alter substantially the post-breakage behavior of the glass substrate. A "substantial alteration" is one that would render the coated tempered glass in non-conformance with the applicable safety glazing standards. Glasses of the same nominal thickness with a ceramic or other material applied as a continuous or partial coating to one or more surfaces are also covered. (Modified 04/02/92)

T.4

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

T.5

Certification of any nominal thickness of tempered safety plate, float or sheet glass will also cover the other two types. ANSI Z97.1-1984 and 16 CFR 1201 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.

T.6

Prototype test shall be conducted on bent specimens sampled from normal production run. The specimen size shall have a surface area of at least 50 percent of the maximum size for which certification is desired. Routine tests will be performed on bent specimens. The test apparatus shall be modified to clamp the vertical straight edges and to support the concave side of the curved edges. Impact shall be on the convex surface.

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. The permanent label must contain this fraction or a metric or decimal dimension within the tolerance of this thickness as published in ASTM C1036. Four specimens shall be used for impact testing as detailed at 16 CFR 1201.4(a)(1).

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.

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

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

TP.2

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

TP.3

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

TP.4

For certification purposes, the nominal thickness of 210 tempered patterned glass shall be 0.210 inches and thickness tolerances shall be plus 0.031 inches and minus 0.016 inches.

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**

Certification of regular laminated glass will also cover tinted, heat absorbing and coated glasses, and clear or tinted interlayer, both flat and bent of the same nominal thickness. Four specimens shall be used for impact testing as detailed at 16 CFR 1201.4(a)(1). (Revised 3/16/90)

L.2

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

L.3

Certification of 7/32 inch laminated glass also covers SS/DS and vice versa.

L.4

When a laminated glass is certified, other laminated glasses having the same thickness or thicknesses of glass and a greater thickness of plastic interlayer will be considered to be of equal nominal thickness and will be included in the certification.

L.5

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

L.6
Thickness of the plastic interlayer shall be measured by the SGCC standard method.

L.7
For certification purposes the following thickness tolerances shall be used. Thickness tolerance shall apply only to the overall thickness. The plus tolerance shall be the sum of all the individual plus tolerances of each layer of the laminate. The minus tolerance shall be the sum of all of the individual minus tolerances of each layer of the laminate.

The tolerance of the plastic sheet interlayer shall be based on the nominal thickness of the interlayer with a plus tolerance of 0.002 and a minus tolerance of 0.004 inches.

The tolerance of resin cast interlayers shall be based on the nominal thickness of the interlayer with a plus tolerance of 0.015 and a minus tolerance of 0.005 inches. (Revised 3/16/90)

L.8
When a laminated annealed glass is certified, other laminated glasses having the same thickness or thicknesses of heat strengthened or tempered glass and the same or greater thickness of plastic interlayer of the same chemical composition will be considered to be included in the certification.

L.9
When laminated glass is not available for routine sampling, the licensee submitted specimens must contain the identical thickness plastic interlayer that was contained in the prototype specimens.

WIRED GLASS (ANSI ONLY)

W.1
Certification of one polished wired glass may be applied to other polished wired glasses provided:

- a) The glass thickness of the candidate glass is nominally equal to the thickness of the glass that is certified.
- b) The wire diameter of the candidate glass is at least as great as the wire diameter in the glass that is certified.
- c) The spacing of the wires in the candidate glass is no greater than the spacing of the wires in the glass that is certified.
- d) SGCC has been presented with a test report indicating compliance of the candidate glass with the impact test requirements of ANSI Z97.1-1984.

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

PLASTICS - GENERAL

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.1 - CPSC ONLY
One piece of at least one square foot area shall be used for testing the hardness and modulus of elasticity.

P.2
For certifying all plastics covering a range of thicknesses, prototype impact tests are required of the minimum thickness and also of the maximum thickness (except that 0.250 inch thickness would be tested if the maximum thickness exceeds 0.250 inches). Only one certification number will be issued and shall be marked upon all thicknesses. Routine evaluation samples are to be selected by the administrator from any of the certified thicknesses.

P.3
The following thickness tolerances shall be used for certification purposes:

Outdoor use plastic materials Categories C-1 and C-2 cast Acrylic, (including continuously cast sheet): As specified in ASTM-D4802-88, Table 2 and Table 3.

Outdoor use plastic materials Categories M-1 and M-2 extruded Acrylic: As specified in ASTM-D4802-88 Table 2 plus or minus 5%.

Outdoor use plastic materials extruded Polycarbonate: As specified in Military Specification MIL-P-46144, latest issue.

Indoor use plastic materials plus or minus 5% 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

PE.1 (ANSI ONLY)

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

PE.1 (CPSC Only)

Sheet plastics for exterior use must comply with 16 CFR 1201.4(e)(2)(ii)(A) accelerated weathering test Table 1 or simulated weathering test. The equipment shall be an apparatus commercially known as a "Weather-Ometer" or its function equivalent incorporating a carbon-arc. It shall be operated in accordance with "Standard Recommended Practice for Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Nonmetallic Materials," ASTM G 23069, March 21, 1969, as augmented for plastics (for plastic test specimens only) by "Standard Recommended Practice for Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Plastics," ASTM D 1499-64, August 31, 1964. Specimens shall be mounted and control specimens shall be used in the manner specified in the Standard at section 1201.4(d)(2)(ii)(A) or (B), as appropriate. An appropriate water spray cycle shall be used. The specimens shall be exposed in the Weather-Ometer for a period of time which, irradiation equivalent to the accumulated ultraviolet irradiation of 2,000 plus or minus 1 hours of exposure in a twin enclosed carbon-arc Weather-Ometer. Evaluate the test results by using the test criteria set forth in the Standard at section 1201.4(e)(2)(ii)(A) or (B), as appropriate.

Intensified weathering test. The test equipment shall be the Equatorial Mount with Mirrors for Acceleration with Water, such as that found at the Desert Sunshine Exposure Tests, Inc. near Phoenix, Arizona. It shall be operated in accordance with "Standard Recommended Practice for Operating EMMA (QUA)R - A Fresnel-Concentrator Accelerated Weathering Machine Employing Natural Sunshine as Source," ASTM draft standard dated October 1, 1976. The standard water spray cycle of eight minutes on followed by 52 minutes off shall be used. Mounting of specimens and use of control specimens shall be specified in the Standard at section 1201.4(d)(2)(ii)(A) or (B), as appropriate. The specimens shall be exposed to 375,000 plus or minus 10,000 langleys (375 plus or minus 10 kilo-calories per square centimeter) or irradiation. Evaluate the test results by using the test criteria set forth in the Standard at section 1201.4(e)(2)(ii)(A) or (B), as appropriate.

Outdoor weather test. The specimens shall be exposed in outdoor exposure test racks set facing the equator at an angle from the horizontal equal to the latitude of the exposure site. The specimens shall be exposed to 375,000 plus or minus 10,000 langleys (375 plus or minus 10 kilo-calories per square centimeter) or irradiation. Mounting of specimens and use of control specimens shall be as specified in the Standard at section 1201.4(d)(2)(ii)(A) or (B), as appropriate. Evaluate the test results by using the test 1201.4(d)(2)(ii)(A) or (B), as appropriate.

PE.2 (ANSI ONLY)

Certification of plastics for exterior use shall be permitted prior to completion of ANSI Z97.1-1984 weathering tests (paragraph 5.3) provided that a considered expert opinion states that the infrared spectrogram indicates that the plastic is an acrylic or UV inhibited polycarbonate of proven weatherability. Certification shall be removed if compliance with the weathering test is not demonstrated within six months of the certification date.

PE.3

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

PE.4

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

PLASTICS - INDOOR USE ONLY

PI.1 (ANSI ONLY)

Sheet plastics used in indoor applications only, do not have to comply with paragraph 5.3 of ANSI Z97.1-1984 (UV Weathering) but must comply with paragraph 5.4.

PI.1 (CPSC ONLY)

Sheet plastics used in indoor applications only, must comply with Table 1 in 16 CFR 1201.

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

Certification of one leaded patterned glass (annealed) may be extended to cover other patterns (on the glass surface) 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 Z97.1-1984 for each alternate pattern proposed.
- c) The certification committee is provided with a 6 by 6 inch sample of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.
- d) After admission under blanket certification covering leaded patterned glass (annealed), any such patterns available may be selected by the administrator for routine sampling.

LG.2

Certification of one diamond shaped leaded patterned glass (annealed) may be extended to cover other sizes of diamonds provided:

- a) All aspects of the product except diamond size is 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 Z97.1-1984 for each alternate size diamond proposed.
- c) The certification committee is provided with a 6 by 6 inch or a proper and representative 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, any such size diamond available may be selected by the administrator for routine testing.

LG.3

For leaded diamond patterned glass (annealed) the tolerance for diagonal came center dimensions shall be plus or minus 12 percent.

Prototype samples must have diagonal came center dimensions 10 percent greater than nominal. Diamond size listed in the certified products directory shall be nominal dimensions.

ORGANIC COATED GLASS

AG.1

Thickness of the applied plastic coating shall be measured by the SGCC standard method. Four specimens shall be used for impact testing as detailed at 16 CFR 1201.4(a)(1).

AG.2

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

(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.

SGCC LABEL REQUIREMENTS

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.

The permanent labels illustrated elsewhere in this certified products directory are examples of some of those found on safety glazing materials certified by SGCC.

The permanent label must contain the correct SGCC number, ANSI Z97.1-1984 and/or 16 CFR 1201 (and category), the nominal thickness, and the letter U or L indicating certified size.

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 purposes of Guideline G.6 "SGCC-xxx/yyy" shall be the only correct designation other than "SGCC-xxx" and "SGCC-yyy" when an identical item is in both the ANSI and CPSC programs per the following examples:

EXAMPLES:

ANSI Z97.1-1984
16 CFR 1201 II
SGCC-123/691 1/4 U

ANSI Z97.1-1984 SGCC - 123 1/4 U
16 CFR 1201 II SGCC-691

The permanent label must be affixed to certified products only at the time and place of manufacture.

The permanent label must be affixed only to safety glazing materials, of the licensee's own manufacture, 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 production.

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

ANSI (ONLY)

"After having successfully passed the appropriate tests, like products and materials produced in the same manner as samples submitted per test shall be legibly and permanently marked in one corner with.....the characters "ANSI Z97.1-1984 - INDOOR USE ONLY" and shall be marked also with the manufacturer's distinctive mark or designation." Quoted from ANSI Z97.1-1984.

"Organic-coated glass materials shall be permanently marked on the organic coating with a label, including the phrase, "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 Z97.1-1984.

CPSC (ONLY)

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

"Organic-coated glass that has been tested for environmental exposure from one side only must bear a permanent label on the coating stating "GLAZE THIS SIDE IN" and shall bear in the central 50 percent of the surface in letters at least 1/4" inch 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.

CPS 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.

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

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

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

CLASSIFIED TEMPERED GLASS PATTERNS1/8 inch shallow

(01) P-516	(02) Luxlite	(03) Factrolite	(09) Spraylite	(32) Muralex
(34) Velvex	(36) Ribbed	(37) Aquatex	(38) Finetex	(39) Industrex
(82) Pattern 62	(83) Pointex	(86) Showerlite	(87) Heliolite	(117) Solatex
(120) Sunadex	(147) Solatex I	(150) Solatex II	(168) Pattern 50	

1/8 inch medium

(04) Rattan	(05) Cotswold	(06) Patchwork	(07) Burlap	(08) Smooth Rough
(11) Flemish	(31) Skytex	(33) Seashell	(35) Flax	(52) Pattern 73
(56) Syenite	(57) Pattern 229	(154) Rain	(160) Model 10	(163) Model 11
(164) Model 12	(165) Spotswood	(167) Leaf		

1/8 inch deep

(10) Autumn

5/32 inch shallow

(59) Luxlite	(60) Factrolite	(64) Spraylite	(70) Muralex	(72) Velvex
(74) Ribbed	(75) Aquatex	(76) Finetex	(81) Pattern 6	(88) Pattern 100
(118) Solatex	(121) Sunadex	(123) P-516	(124) Heliolite	(126) Pattern 62
(127) Mistrion Ace	(128) Showerlite	(148) Solatex I	(151) Solatex II	(153) Flax
(156) Clar 104	(157) Model 10	(158) Pontilhado	(161) Model 11	(162) Model 12

5/32 inch medium

(61) Cotswold	(62) Burlap	(63) Smooth Rough	(66) Flemish	(69) Skytex
(71) Seashell	(73) Flax	(77) Pattern 73	(78) Syenite	(79) Pattern 229
(80) Pattern 76	(130) Cathedral	(146) Pattern 28	(155) Rain	

5/32 inch deep

(65) Autumn	(67) Oceanic	(68) Roundel
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3/16 inch shallow

(50) Pattern 62	(51) P-516	(54) Showerlite	(116) Heliolite	(119) Solatex
(122) Sunadex	(125) Spraylite	(131) Industrex	(132) Velvex	(133) Aquatex
(134) Pattern 100	(135) Pattern 6	(136) Burlap	(137) Factrolite	(138) Satinlite
(139) Pluralite	(140) Flax	(141) Skytex	(142) Chinchilla	(149) Solatex I
(152) Solatex II	(159) Model 10			

3/16 inch medium

(58) Pattern 76	(143) Seashell	(144) Syenite	(145) Flemish
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3/16 inch deep

(12) Oceanic	(13) Roundel	(41) Lozenge
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210 inch shallow

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

210 inch medium

(107) Seashell	(109) Beadex	(111) Syenite	(112) Flemish	(113) Textured Linex
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210 inch deep

(104) Lozenge	(114) Broadlite
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7/32 inch shallow

(14) Velvex	(15) Muralex	(16) Industrex	(17) Aquatex	(18) Pattern 100
(19) Pattern 6	(20) Pattern 62	(21) Spraylite	(22) Burlap	(23) Factrolite
(24) Satinlite	(25) Luxlite	(26) J-3	(27) P-516	(28) Smooth Rough
(30) Cascade	(42) Pluralite	(44) Flax	(46) Skytex	(55) Textured Plate
(84) Chinchilla	(129) Orange Peel			

7/32 inch medium

(43) Seashell	(45) Beadex	(47) Syenite	(48) Flemish	(49) Textured Linex
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7/32 inch deep

(29) Lozenge	(53) Boardlite
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<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
12 Virginia Glass Products	865 Tempered Glass, Inc	1230 American Flat Glass Distrib
14 Virginia Glass Products	866 Tempered Glass, Inc	1231 American Flat Glass Distrib
24 AFG Industries	933 Guardian Industries - ANSI	1232 American Flat Glass Distrib
28 AFG Industries	934 Guardian Industries - ANSI	1235 Guardian Fabrication - ANSI
40 Guardian Industries - ANSI	935 Downey Glass Co	1248 Guardian Industries - ANSI
54 Hamilton Glass Products	949 AFG Industries	1249 Guardian Industries - ANSI
57 Hamilton Glass Products	955 AFG Industries	1250 Guardian Industries - ANSI
64 PPG Industries	968 Guardian Industries - ANSI	1251 Guardian Industries - ANSI
70 PPG Industries	969 Guardian Industries - ANSI	1253 Guardian Industries - ANSI
89 AFG Industries	970 Guardian Industries - ANSI	1259 Tempglass Eastern, Inc
90 AFG Industries	971 Guardian Industries - ANSI	1275 Virginia Glass Products
93 Virginia Glass Products	979 Tempglass Eastern, Inc	1280 Guardian Inds Corp-James**wn
94 Virginia Glass Products	981 Tempglass Eastern, Inc	1281 U S Precision Glass
95 Virginia Glass Products	982 Tempglass Eastern, Inc	1282 Guardian Inds Corp-Lewis**wn
118 Flex-O-Glass, Inc	986 Temp-Tech Industries, Inc	1284 Guardian Inds Corp-Lewis**wn
131 Guardian Industries - ANSI	999 Anglass Industries - ANSI	1286 U S Precision Glass
185 U S Precision Glass	1000 Anglass Industries - ANSI	1287 U S Precision Glass
186 U S Precision Glass	1035 Shaw Glass Co Inc	1299 Shaw Glass Co Inc
188 U S Precision Glass - ANSI	1036 Shaw Glass Co Inc	1301 Guardian Industries - ANSI
220 AFG Industries	1037 Shaw Glass Co Inc	1303 Guardian Industries - ANSI
249 PPG Industries	1039 Tempglass, Inc	1304 Guardian Industries - ANSI
250 PPG Industries	1041 Ardco, Inc	1308 TRACO (Three Rivers Alum.)
295 PPG Industries	1042 Ardco, Inc	1310 TRACO (Three Rivers Alum.)
300 Guardian Fabrication - ANSI	1044 Tempglass Southern, Inc	1311 TRACO (Three Rivers Alum.)
328 U S Precision Glass - ANSI	1045 Tempglass Southern, Inc	1315 Guardian Inds Corp-Lewis**wn
382 PPG Industries - ANSI	1046 Tempglass Southern, Inc	1316 Guardian Inds Corp-Lewis**wn
400 ACI Glass Products Inc	1050 U S Precision Glass	1318 Guardian Industries - ANSI
402 ACI Glass Products Inc	1058 Tempglass Eastern, Inc	1332 Gemtron Corp
458 Guardian Industries - ANSI	1059 Tempglass Eastern, Inc	1334 Gemtron Corp
471 Guardian Fabrication - ANSI	1073 Spectrum Glass Prods - ANSI	1355 Guardian Fabrication - ANSI
487 Guardian Industries - ANSI	1074 Spectrum Glass Prods - ANSI	1356 Guardian Fabrication - ANSI
514 Downey Glass Co	1075 Spectrum Glass Prods - ANSI	1357 Guardian Fabrication - ANSI
515 Downey Glass Co	1076 Spectrum Glass Prods - ANSI	1358 Guardian Fabrication - ANSI
516 Downey Glass Co	1077 Spectrum Glass Prods - ANSI	1359 Guardian Fabrication - ANSI
520 Anglass Industries - ANSI	1080 Spectrum Glass Prods - CPSC	1369 U S Precision Glass
562 U S Precision Glass - ANSI	1081 Spectrum Glass Prods - CPSC	1370 U S Precision Glass
587 AFG Industries	1082 Spectrum Glass Prods - CPSC	1371 U S Precision Glass
592 Tempglass, Inc	1083 Spectrum Glass Prods - CPSC	1372 U S Precision Glass
594 Tempglass, Inc	1084 Spectrum Glass Prods - CPSC	1379 HGP Architectural Glass
595 Tempglass, Inc	1107 ACI Glass Products Inc - ANSI	1380 HGP Architectural Glass
598 AFG Industries	1108 ACI Glass Products Inc - ANSI	1381 Glasstemp, Inc.
630 Downey Glass Co	1110 PPG Industries	1382 Glasstemp, Inc.
631 Guardian Industries - ANSI	1111 PPG Industries	1383 Glasstemp, Inc.
633 Guardian Industries - ANSI	1112 PPG Industries	1384 Glasstemp, Inc.
640 ACI Glass	1113 PPG Industries - ANSI	1385 Hamilton Glass Products
654 U S Precision Glass - ANSI	1139 AFG Industries	1386 Hamilton Glass Products
662 Guardian Fabrication - ANSI	1143 AFG Industries	1387 Hamilton Glass Products
675 PPG Industries	1157 ACI Glass	1388 U S Precision Glass - ANSI
676 PPG Industries	1161 Guardian Industries - ANSI	1390 AFG Industries
678 Downey Glass Co	1179 ACI Glass	1393 Saint Gobain - ANSI
709 Guardian Inds Corp-James**wn	1200 Hamilton Glass Products	1394 Guardian Fabrication - ANSI
711 Guardian Inds Corp-James**wn	1201 Gemtron Corp	1403 Viracon, Inc
712 Guardian Inds Corp-James**wn	1216 Guardian Fabrication - ANSI	1404 Viracon, Inc
862 Tempered Glass, Inc	1219 Tempglass Southern, Inc	1405 American Flat Glass Distrib
863 Tempered Glass, Inc	1225 ACI Glass Products Inc - ANSI	1406 American Flat Glass Distrib

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
1413 Hankuk Glass Ind - ANSI	1530 Arch Tempered Glass - ANSI	1629 Guardian Inds Corp-Lewis**wn
1414 AFG Industries	1531 Arch Tempered Glass - ANSI	1630 Guardian Industries - ANSI
1415 American Flat Glass Distrib	1533 Glasstemp, Inc.	1631 Guardian Industries - ANSI
1416 Nashville Tempered Glass	1535 ACI Glass	1632 Guardian Industries - ANSI
1417 Nashville Tempered Glass	1536 Glasstemp, Inc.	1633 Guardian Industries - ANSI
1420 Tempglass, Inc	1545 Guardian Inds Corp-James**wn	1634 Guardian Industries - ANSI
1421 HGP Architectural Glass	1546 Floral Glass & Mirror	1635 Guardian Industries - ANSI
1422 Gemtron Corp	1547 Floral Glass & Mirror	1636 Viracon, Inc
1424 Gemtron Corp	1548 Floral Glass & Mirror	1637 Viracon, Inc
1428 American Flat Glass Distrib	1549 Floral Glass & Mirror	1638 Northwestern Industries
1436 AFG Industries	1550 Floral Glass & Mirror	1639 Northwestern Industries
1441 Sumitec, Inc.	1551 Floral Glass & Mirror	1640 Northwestern Industries
1448 HGP Architectural Glass	1552 Floral Glass & Mirror	1641 AFG Industries
1452 U S Precision Glass	1553 Floral Glass & Mirror	1642 ACI Glass
1453 Sunbelt Glass, Inc	1555 Swift Glass Co., Inc.	1643 ACI Glass
1454 Sunbelt Glass, Inc	1556 Swift Glass Co., Inc.	1644 ACI Glass
1455 Sunbelt Glass, Inc	1557 Swift Glass Co., Inc.	1645 ACI Glass
1456 Sunbelt Glass, Inc	1558 Swift Glass Co., Inc.	1647 Pan Lam Industries
1457 Sunbelt Glass, Inc	1559 Swift Glass Co., Inc.	1649 Tempglass Southern, Inc
1458 The Glass Factory	1562 Arch Tempered Glass - ANSI	1651 Macdonald Mirror
1459 The Glass Factory	1563 Ardco, Inc	1652 Laminated Glass Corp
1460 The Glass Factory	1564 Ardco, Inc	1653 D & S Tempered Glass
1461 The Glass Factory	1565 Ardco, Inc	1654 D & S Tempered Glass
1462 Guardian Industries - ANSI	1574 Guardian Fabrication - ANSI	1655 D & S Tempered Glass
1463 Guardian Industries - ANSI	1575 Guardian Fabrication - ANSI	1656 D & S Tempered Glass
1464 Guardian Industries - ANSI	1576 Guardian Fabrication - ANSI	1657 D & S Tempered Glass
1467 Nashville Tempered Glass	1577 Guardian Fabrication - ANSI	1658 D & S Tempered Glass
1476 Viracon, Inc	1578 Milgard Tempering Inc	1659 D & S Tempered Glass
1477 Gemtron Corp	1586 Taylor Products, Inc.	1660 D & S Tempered Glass
1479 Hankuk Glass Ind - ANSI	1587 Taylor Products, Inc.	1661 D & S Tempered Glass
1480 Hankuk Glass Ind - ANSI	1588 Taylor Products, Inc.	1663 AFG Industries
1481 Hankuk Glass Ind - ANSI	1589 Taylor Products, Inc.	1664 AFG Industries
1482 Hankuk Glass Ind - ANSI	1590 Free State Glass Industries	1665 Guardian Industries - ANSI
1483 Hankuk Glass Ind - ANSI	1591 Free State Glass Industries	1668 Globe-Amerada
1485 AFG Glass Inc	1592 Free State Glass Industries	1676 Contour Industries
1486 AFG Glass Inc	1593 Free State Glass Industries	1677 Contour Industries
1487 AFG Glass Inc	1594 Free State Glass Industries	1678 Contour Industries
1489 AFG Glass Inc	1595 Hoffer's, Inc.	1680 Contour Industries
1495 ACI Glass Products	1596 Hoffer's, Inc.	1682 Arch Tempered Glass - ANSI
1496 ACI Glass Products	1597 Hoffer's, Inc.	1683 Guardian Industries - ANSI
1497 ACI Glass Products	1598 Taylor Products, Inc.	1687 Donnelly Corp
1498 ACI Glass Products	1603 PPG Industries	1688 Donnelly Corp
1508 Viracon, Inc	1604 PPG Industries	1689 Marvin Windows
1509 Viracon, Inc	1605 PPG Industries	1690 Marvin Windows
1518 American Flat Glass Distrib	1606 PPG Industries	1691 Marvin Windows
1519 American Flat Glass Distrib	1607 Guardian Fabrication - ANSI	1699 Sumitec, Inc.
1520 American Flat Glass Distrib	1608 Downey Glass Co	1701 Marvin Windows
1521 American Flat Glass Distrib	1609 Downey Glass Co	1702 AFG Industries Inc
1522 American Flat Glass Distrib	1611 Downey Glass Co	1703 AFG Industries Inc
1523 American Flat Glass Distrib	1616 Guardian Fabrication - ANSI	1704 AFG Industries Inc
1524 American Flat Glass Distrib	1617 Sunbelt Glass, Inc	1705 AFG Industries Inc
1526 Arch Tempered Glass - ANSI	1618 Sunbelt Glass, Inc	1706 American Flat Glass Distrib
1527 Arch Tempered Glass - ANSI	1624 AFG Industries	1708 American Flat Glass Dist
1528 Arch Tempered Glass - ANSI	1627 Guardian Inds Corp-Lewis**wn	1709 American Flat Glass Dist
1529 Arch Tempered Glass - ANSI	1628 Guardian Inds Corp-Lewis**wn	1710 American Flat Glass Dist

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
1711 American Flat Glass Dist	1780 Cameron Glass Inc	1831 Cardinal IG - CPSC
1712 American Flat Glass Dist	1781 Sterling Plumbing Group	1832 Cardinal IG - CPSC
1713 American Flat Glass Dist	1782 All Team Glass & Mirror Ltd	1833 Cardinal IG - CPSC
1714 American Flat Glass Dist	1783 Kuhl Glass Corp	1834 Cardinal IG - CPSC
1715 U S Precision Glass	1784 Perilstein Distributing Corp	1835 Arch Tempered Glass - ANSI
1716 Spectrum Glass Prods - ANSI	1785 Perilstein Distributing Corp	1841 Cardinal IG - CPSC
1717 Spectrum Glass Prods - CPSC	1786 Perilstein Distributing Corp	1842 Cardinal IG - CPSC
1718 Spectrum Glass Prods - ANSI	1787 Perilstein Distributing Corp	1843 Cardinal IG - CPSC
1719 Spectrum Glass Prods - CPSC	1788 Perilstein Distributing Corp	1844 Cardinal IG - CPSC
1723 Marvin Windows	1789 Perilstein Distributing Corp	1845 Cardinal IG - CPSC
1724 Marvin Windows	1790 Perilstein Distributing Corp	1846 Cardinal IG - CPSC
1728 ACI Glass Products Inc - ANSI	1791 Four Seasons Solar Products	1847 Colonial Mirror & Glass Corp
1736 Cameron Glass Inc	1792 Shaw Glass Co Inc	1848 Colonial Mirror & Glass Corp
1737 Guardian Industries - ANSI	1793 Shaw Glass Co Inc	1849 Colonial Mirror & Glass Corp
1738 Kuhl Glass Corp	1794 AFG Industries	1851 Efco Corp
1739 Kuhl Glass Corp	1795 AFG Industries	1852 Efco Corp
1740 Kuhl Glass Corp	1796 Hoffer's, Inc.	1853 Efco Corp
1741 Kuhl Glass Corp	1797 Hoffer's, Inc.	1854 U S Precision Glass
1744 Tempglass Miami	1798 Hoffer's, Inc.	1855 Arch Tempered Glass - ANSI
1745 Tempglass Miami	1799 Northwest Aluminum Products	1857 PPG Canada Inc
1746 Tempglass Miami	1800 Northwest Aluminum Products	1858 PPG Canada Inc
1747 Tempglass Miami	1801 Northwest Aluminum Products	1859 PPG Canada Inc
1749 Cameron Glass Inc	1802 Northwest Aluminum Products	1860 Tempglass Eastern, Inc
1754 All Team Glass & Mirror Ltd	1803 Guardian Industries - ANSI	1861 ACI Glass
1755 All Team Glass & Mirror Ltd	1804 Cardinal TG - CPSC	1862 Hoffer's, Inc.
1756 All Team Glass & Mirror Ltd	1805 Cardinal TG - CPSC	1863 Sterling Plumbing Group
1757 All Team Glass & Mirror Ltd	1806 Cardinal TG - CPSC	1864 Sovis S A
1758 All Team Glass & Mirror Ltd	1807 Cardinal TG - CPSC	1865 Guardian Industries - ANSI
1759 Sterling Plumbing Group	1808 Glasstemp, Inc.	1866 Guardian Inds Corp-Lewis**wn
1760 Sterling Plumbing Group	1809 Glasstemp, Inc.	1867 Guardian Inds Corp-Lewis**wn
1762 Sterling Plumbing Group	1810 American Flat Glass Distrib	1868 Guardian Inds Corp-Lewis**wn
1763 Cameron Glass Inc	1813 Libbey-Owens-Ford Co	1869 Sterling Plumbing Group
1765 Arch Aluminum & Glass Co**	1814 Libbey-Owens-Ford Co	1870 Sunbelt Glass, Inc
1766 Arch Aluminum & Glass Co**	1815 Libbey-Owens-Ford Co	1871 Shaw Glass Co Inc
1767 Arch Aluminum & Glass Co**	1816 Libbey-Owens-Ford Co	1872 Canadian Insul-Glass Corp
1768 Arch Aluminum & Glass Co**	1826 Guardian Industries - ANSI	1873 Canadian Insul-Glass Corp
1769 Arch Aluminum & Glass Co**	1827 Cardinal IG - CPSC	1874 Canadian Insul-Glass Corp
1771 Tempglass Eastern, Inc	1828 Cardinal IG - CPSC	1875 Canadian Insul-Glass Corp
1772 Tempglass Eastern, Inc	1829 Cardinal IG - CPSC	
1773 Tempglass Eastern, Inc	1830 Cardinal IG - CPSC	

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
ACI GLASS; GREENSBORO, NC					AFG INDS INC; SPRING HILL, KS (CON'T)				
1642	3/16	(5.0)	TTG	U	1705	1/4	(6.0)	TTG	U
1643	1/4	(6.0)	TTG	U	AFG GLASS INC; CONCORD, ONTARIO, CANADA				
1644	3/8	(10.0)	TTG	U	1485	1/8	(3.0)	TTG	U
1645	1/2	(12.0)	TTG	U	1486	5/32	(4.0)	TTG	U
ACI GLASS PRODUCTS INC; DALLAS, TX					1487	3/16	(5.0)	TTG	U
				ANSI ONLY	1489	1/4	(6.0)	TTG	U
1107	3/8	(10.0)	TTG	U	ALL TEAM GLASS & MIRROR LTD; WOODBRIDGE, ONTARIO, CANADA				
1108	1/2	(12.0)	TTG	U	1754	5/32	(4.0)	TTG	U
1225	3/4	(19.0)	TTG	U	1755	3/16	(5.0)	TTG	U
1728	3/16	(5.0)	TPG(S)	U	1756	1/4	(6.0)	TTG	U
ACI GLASS PRODUCTS INC; DALLAS, TX					1757	3/8	(10.0)	TTG	U
400	3/16	(5.0)	TTG	U	1758	1/2	(12.0)	TTG	U
402	1/4	(6.0)	TTG	U	1782	3/4	(19.0)	TTG	U
ACI GLASS PRODUCTS; SANTA CLARA, CA					AMERICAN FLAT GLASS DIST; ALVARADO, TX				
1496	1/4	(6.0)	TTG	U	1708	1/8	(3.0)	TTG	U
1497	3/8	(10.0)	TTG	U	1709	3/16	(5.0)	TTG	U
1498	1/2	(12.0)	TTG	U	1710	1/4	(6.0)	TTG	U
1495	7/32	(5.6)	TPG(S)	U	1711	3/8	(10.0)	TTG	U
ACI GLASS PRODUCTS INC; SANTA FE SPRINGS, CA					1712	1/2	(12.0)	TTG	U
1157	3/16	(5.0)	TTG	U	1713	5/32	(4.0)	TPG(S)	U
1535	1/4	(6.0)	TTG	U	1714	3/16	(5.0)	TPG(S)	U
1179	3/8	(10.0)	TTG	U	AMERICAN FLAT GLASS DIST; FALL RIVER, MA				
640	1/2	(12.0)	TTG	U	1518	1/8	(3.0)	TTG	U
1861	1/8	(3.0)	TPG(S)	U	1519	3/16	(5.0)	TTG	U
AFG INDS INC; BRIDGEPORT, WV					1520	1/4	(6.0)	TTG	U
1436	1/8	(3.0)	TTG	U	1521	3/8	(10.0)	TTG	U
1624	5/32	(4.0)	TTG	U	1522	1/2	(12.0)	TTG	U
1795	3/16	(5.0)	TTG	U	1524	5/32	(4.0)	TPG(S)	U
1794	1/4	(6.0)	TTG	U	1523	3/16	(4.8)	TPG(S)	U
AFG INDS INC; VICTORVILLE, CA					AMERICAN FLAT GLASS DIST; MARIETTA, GA				
1664	1/8	(3.2)	TTG	U	1405	1/8	(3.0)	TTG	U
1641	5/32	(4.0)	TTG	U	1230	3/16	(5.0)	TTG	U
1663	3/16	(4.8)	TTG	U	1231	1/4	(6.0)	TTG	U
AFG INDS INC; GREENLAND, TN					1232	3/8	(10.0)	TTG	U
598	1/8	(3.0)	TTG	U	1406	1/2	(12.0)	TTG	U
955	5/32	(4.0)	TTG	U	1428	5/32	(4.0)	TPG(S)	U
220	3/16	(5.0)	TTG	U	1415	3/16	(4.8)	TPG(S)	U
89	1/4	(6.0)	TTG	U	1810	7/32	(5.6)	LTG(B) (.030)	U
90	3/8	(10.0)	TTG	U	1706	1/4	(6.0)	LTG(B)	U
587	1/8	(3.2)	TPG(S)	U	ANGLASS INDS INC; SAN FERNANDO, CA				
1139	3/16	(4.8)	TPG(S)	U					ANSI ONLY
AFG INDS INC; KINGSPORT, TN					520	1/8	(3.0)	TTG	U
1390	1/8	(3.0)	TTG	U	999	3/16	(5.0)	TTG	U
949	5/32	(4.0)	TTG	U	1000	1/4	(6.0)	TTG	U
28	3/16	(5.0)	TTG	U	ARCH ALUMINUM & GLASS CO; AUSTELL, GA				
24	1/4	(6.0)	TTG	U					ANSI ONLY
1143	3/16	(4.8)	TPG(S)	U	1765	1/8	(3.0)	TTG	U
1414	1/8	(3.2)	TPG(M)	U	1766	3/16	(5.0)	TTG	U
AFG INDS INC; SPRING HILL, KS					1767	1/4	(6.0)	TTG	U
1702	1/8	(3.0)	TTG	U	1768	3/8	(10.0)	TTG	U
1703	5/32	(4.0)	TTG	U	1769	1/2	(12.0)	TTG	U
1704	3/16	(5.0)	TTG	U	ARCH TEMPERED GLASS PRODUCTS; ORLANDO, FL				
									ANSI ONLY
					1526	1/8	(3.0)	TTG	U

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
ARCH TEMPERED GLASS PRODUCTS; ORLANDO, FL (CON'T)					CONTOUR INDUSTRIES INC; SURGOINSVILLE, TN				
1527	3/16	(5.0)	TTG	U	1680	1/8	(3.0)	TTG	18" by 76"
1528	1/4	(6.0)	TTG	U	1678	3/16	(5.0)	TTG	18" by 76"
1529	3/8	(10.0)	TTG	U	1677	1/4	(6.0)	TTG	18" by 76"
1530	1/2	(12.0)	TTG	U	1676	1/8	(3.0)	TPG(S)	18" by 60"
1835	3/4	(19.0)	TTG	U	D & S TEMPERED GLASS; DALLAS, TX				
1531	1/8	(3.0)	TPG(S)	U	1653	1/8	(3.0)	TTG	U
1682	5/32	(4.0)	TPG(S)	U	1654	5/32	(4.0)	TTG	U
1562	3/16	(4.8)	TPG(S)	U	1655	3/16	(5.0)	TTG	U
1855	9/32	(7.0)	LTG(L)(.030)	U	1656	1/4	(6.0)	TTG	U
ARDCO INC; CHICAGO, IL					1657	3/8	(10.0)	TTG	U
1041	1/8	(3.0)	TTG	U	1658	1/2	(12.0)	TTG	U
1042	3/16	(5.0)	TTG	U	1659	1/8	(3.0)	TPG(S)	U
1563	5/32	(4.0)	TBG	U	1660	5/32	(4.0)	TPG(S)	U
1564	3/16	(5.0)	TBG	U	1661	3/16	(4.8)	TPG(S)	U
1565	1/4	(6.0)	TBG	U	DONNELLY CORP; HOLLAND, MI				
CAMERON GLASS INC; BROKEN ARROW, OK					1687	3/16	(4.8)	TTG	30" by 76"
1736	1/8	(3.2)	TTG	U	1688	1/4	(6.0)	TTG	30" by 76"
1763	5/32	(4.0)	TTG	U	DOWNEY GLASS CO; LOS ANGELES, CA				
1749	3/16	(5.0)	TTG	U	1608	1/8	(3.0)	TTG	U
1780	1/4	(6.0)	TTG	U	1609	5/32	(4.0)	TTG	U
CANADIAN INSUL-GLASS CORP; ONTARIO, CANADA					630	3/16	(5.0)	TTG	U
1872	1/8	(3.0)	TTG	U	514	1/4	(6.0)	TTG	U
1873	5/32	(4.0)	TTG	U	515	3/8	(10.0)	TTG	U
1874	3/16	(5.0)	TTG	U	516	1/2	(12.0)	TTG	U
1875	1/4	(6.0)	TTG	U	935	3/16	(4.8)	TPG(S)	U
CARDINAL IG; GREENFIELD, IA					678	7/32	(5.6)	TPG(S)	U
				CPSC ONLY	1611	1/8	(3.2)	TPG(M)	U
1827	1/8	(3.0)	TTG	U	EFCO CORP; MONETT, MO				
1828	5/32	(4.0)	TTG	U	1851	3/16	(5.0)	TTG	U
1829	3/16	(5.0)	TTG	U	1852	1/4	(6.0)	TTG	U
1830	1/4	(6.0)	TTG	U	1853	3/16	(5.0)	TPG(S)	U
1841	1/8	(3.0)	TPG(S)	U	FLEX-O-GLASS INC; DIXON, IL				
1842	5/32	(4.0)	TPG(S)	U	118	0.080-inch through 0.125-inch			U
1843	3/16	(5.0)	TPG(S)	U					smooth extruded acrylic
CARDINAL IG; SPRING GREEN, WI					FLORAL GLASS & MIRROR INC; HAUPPAUGE, NY				
				CPSC ONLY	1546	1/8	(3.0)	TTG	U
1831	1/8	(3.0)	TTG	U	1547	3/16	(5.0)	TTG	U
1832	5/32	(4.0)	TTG	U	1548	1/4	(6.0)	TTG	U
1833	3/16	(5.0)	TTG	U	1549	3/8	(10.0)	TTG	U
1834	1/4	(6.0)	TTG	U	1550	1/2	(12.0)	TTG	U
1844	1/8	(3.0)	TPG(S)	U	1551	3/4	(19.0)	TTG	U
1845	5/32	(4.0)	TPG(S)	U	1552	1/8	(3.2)	TPG(S)	U
1846	3/16	(5.0)	TPG(S)	U	1553	7/32	(5.6)	TPG(S)	U
CARDINAL TG; TOMAH, WI					FOUR SEASONS SOLAR PRODUCTS; HOLBROOK, NY				
				CPSC ONLY	1791	1/8	(3.0)	TTG	U
1804	1/8	(3.0)	TTG	U	FREE STATE GLASS INDS; WARRENTON, VA				
1805	5/32	(4.0)	TTG	U	1590	1/8	(3.0)	TTG	U
1806	3/16	(5.0)	TTG	U	1591	3/16	(5.0)	TTG	U
1807	1/4	(6.0)	TTG	U	1592	1/4	(6.0)	TTG	U
COLONIAL MIRROR & GLASS CORP; BROOKLYN, NY					1593	3/8	(10.0)	TTG	U
1847	1/4	(6.0)	TTG	U	1594	1/2	(12.0)	TTG	U
1848	3/8	(10.0)	TTG	U	GEMTRON CORP; SWEETWATER, TN				
1849	1/2	(12.0)	TTG	U	1334	1/8	(3.0)	TTG	U
					1332	5/32	(4.0)	TTG	U
					1201	3/16	(5.0)	TTG	U

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
GEMTRON CORP; SWEETWATER, TN (CON'T)					GUARDIAN INDS CORP; CORSICANA, TX (CON'T)				
1477	1/4	(6.0)	TTG	U	1249	5/32	(4.0)	TTG	U
1422	1/8	(3.2)	TPG(S)	U	1250	3/16	(5.0)	TTG	U
1424	5/32	(4.0)	TPG(S)	U	1251	1/4	(6.0)	TTG	U
GLASS FACTORY INC; RONKONKOMA, NY					1826	5/16	(8.0)	TTG	U
1458	1/8	(3.0)	TTG	U	1253	3/8	(10.0)	TTG	U
1459	3/16	(5.0)	TTG	U	1803	1/2	(12.0)	TTG	U
1460	1/4	(6.0)	TTG	U	1463	1/8	(3.2)	TPG(S)	U
1461	1/2	(12.0)	TTG	U	1737	5/32	(4.0)	TPG(S)	U
GLASSTEMP INC; BENSENVILLE, IL					1464	7/32	(5.6)	TPG(S)	U
1381	3/16	(5.0)	TTG	U	GUARDIAN INDS CORP; FORT LAUDERDALE, FL				
1382	1/4	(6.0)	TTG	U					ANSI ONLY
1383	3/8	(10.0)	TTG	U	1161	1/8	(3.0)	TTG	U
1384	1/2	(12.0)	TTG	U	633	3/16	(5.0)	TTG	U
1808	3/16	(5.0)	TBG	U	40	1/4	(6.0)	TTG	U
1809	1/4	(6.0)	TBG	U	1665	1/8	(3.2)	TPG(S)	30" by 70"
1536	3/8	(10.0)	TBG	U	1318	3/16	(4.8)	TPG(S)	U
1533	1/2	(12.0)	TBG	U	GUARDIAN INDS CORP; KINGSBURG, CA				
GLOBE-AMERADA GLASS CO (ASSURANCE); SELMA, AL									ANSI ONLY
1668	1/4	(6.0)	LTG(B)	U	968	1/8	(3.0)	TTG	U
GUARDIAN FABRICATION INC; MILLBURY, OH					969	5/32	(4.0)	TTG	U
				ANSI ONLY	970	3/16	(5.0)	TTG	U
1574	1/8	(3.0)	TTG	U	971	1/4	(6.0)	TTG	U
1575	5/32	(4.0)	TTG	U	1304	3/16	(4.8)	TPG(S)	U
1576	3/16	(5.0)	TTG	U	1303	1/8	(3.2)	TPG(M)	U
1577	1/4	(6.0)	TTG	U	1301	5/32	(4.0)	TPG(M)	U
GUARDIAN FABRICATION INC; ROGERS, AR					GUARDIAN INDS CORP; RICHBURG, SC				
				ANSI ONLY					ANSI ONLY
1355	1/8	(3.0)	TTG	U	1630	1/8	(3.0)	TTG	U
1616	5/32	(4.0)	TTG	U	1631	5/32	(4.0)	TTG	U
1356	3/16	(5.0)	TTG	U	1632	3/16	(5.0)	TTG	U
1357	1/4	(6.0)	TTG	U	1633	1/4	(6.0)	TTG	U
1358	1/8	(3.2)	TPG(S)	U	1634	3/8	(10.0)	TTG	U
1359	5/32	(4.0)	TPG(S)	U	1683	1/8	(3.2)	TPG(S)	U
1394	3/16	(4.8)	TPG(D)	U	1635	5/32	(4.0)	TPG(S)	U
GUARDIAN FABRICATION INC; WEBSTER, MA					1865	3/16	(5.0)	TPG(S)	U
				ANSI ONLY	GUARDIAN INDS CORP; UPPER SANDUSKY, OH				
300	1/8	(3.0)	TTG	U					ANSI ONLY
1607	5/32	(4.0)	TTG	U	458	7/32	(5.5)	LTG(B)(.030)	U
1216	3/16	(5.0)	TTG	U	487	1/4	(6.0)	LTG(B)(.030)	U
662	1/4	(6.0)	TTG	U	GUARDIAN INDS CORP; TILLSONBURG, ONTARIO, CANADA				
471	3/8	(10.0)	TTG	U					ANSI ONLY
1235	1/2	(12.0)	TTG	U	1462	1/8	(3.0)	TTG	U
GUARDIAN INDUSTRIES CORP; CARLETON, MI					GUARDIAN INDS CORP-JAMESTOWN; FALCONER, NY				
				ANSI ONLY					ANSI ONLY
933	1/8	(3.0)	TTG	U	1545	3/16	(5.0)	TTG	U
934	5/32	(4.0)	TTG	U	709	1/4	(6.0)	TTG	U
631	3/16	(5.0)	TTG	U	1280	3/8	(10.0)	TTG	U
131	1/4	(6.0)	TTG	U	711	1/2	(12.0)	TTG	U
GUARDIAN INDS CORP; CORSICANA, TX					712	3/4	(19.0)	TTG	U
				ANSI ONLY	GUARDIAN INDS CORP-LEWISTOWN; LEWISTOWN, PA				
1248	1/8	(3.0)	TTG	U					ANSI ONLY
					1627	1/8	(3.0)	TTG	U

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
GUARDIAN INDS CORP-LEWISTOWN; LEWISTOWN, PA (CON'T)					MARVIN WINDOWS; WARROAD, MN (CON'T)				
1866	5/32	(4.0)	TTG	U	1723	5/32	(4.0)	TTG	U
1628	3/16	(5.0)	TTG	U	1690	3/16	(5.0)	TTG	U
1629	1/4	(6.0)	TTG	U	1691	1/4	(6.0)	TTG	U
1867	3/8	(10.0)	TTG	U	1724	1/8	(3.0)	TPG(S)	U
1868	1/2	(12.0)	TTG	U	1701	3/16	(5.0)	TPG(S)	U
1282	7/32	(5.5)	LTG(B)(.015)	U	MILGARD TEMPERING INC; TACOMA, WA				
1284	1/4	(6.0)	LTG(B)(.015)	U	1578	1/4	(6.0)	TTG	U
1315	3/8	(10.0)	LTG(B)(.015)	U	NASHVILLE TEMPERED GLASS CORP; NASHVILLE, TN				
1316	1/2	(12.0)	LTG(B)(.015)	U	1416	1/8	(3.0)	TTG	U
HAMILTON GLASS PRODUCTS INC; VINCENNES, IN					1467	3/16	(5.0)	TTG	U
54	1/8	(3.0)	TTG	U	1417	1/4	(6.0)	TTG	U
1385	5/32	(4.0)	TTG	U	NORTHWEST ALUMINUM PRODUCTS INC; YAKIMA, WA				
1200	3/16	(5.0)	TTG	U	1799	1/8	(3.0)	TTG	U
57	1/4	(6.0)	TTG	U	1800	3/16	(5.0)	TTG	U
1386	5/32	(4.0)	TPG(S)	U	1801	1/4	(6.0)	TTG	U
1387	3/16	(4.8)	TPG(S)	U	1802	1/8	(3.0)	TPG(S)	U
HANKUK GLASS INDUSTRIES INC; SEOUL, KOREA					NORTHWESTERN INDS INC; SEATTLE, WA				
				ANSI ONLY	1638	3/16	(5.0)	TTG	U
1479	5/32	(4.0)	TTG	U	1639	1/4	(6.0)	TTG	U
1480	3/16	(5.0)	TTG	U	1640	3/16	(5.0)	LTG(B)(.030)	U
1413	1/4	(6.0)	TTG	U	PAN LAM INDS; BOTHELL, WA				
1481	5/16	(8.0)	TTG	U	1647	3/16	(5.0)	LTG(B)	U
1482	3/8	(10.0)	TTG	U	PERILSTEIN DISTRIBUTING CORP; CHESWICK, PA				
1483	1/2	(12.0)	TTG	U	1784	1/8	(3.0)	TTG	U
HGP INDUSTRIES; WARRENTON, MO					1785	3/16	(5.0)	TTG	U
1379	1/8	(3.0)	TTG	U	1786	1/4	(6.0)	TTG	U
1380	5/32	(4.0)	TTG	U	1787	3/8	(10.0)	TTG	U
1421	3/16	(5.0)	TTG	U	1788	1/2	(12.0)	TTG	U
1448	1/4	(6.0)	TTG	U	1790	3/16	(5.0)	TPG	U
HOFFER'S INC; SCHOFIELD, WI					1789	1/8	(3.0)	TPG(S)	U
1595	1/8	(3.0)	TTG	U	PPG CANADA INC; OWEN SOUND, ONTARIO				
1862	5/32	(4.0)	TTG	U	1857	5/32	(4.0)	TTG	U
1596	3/16	(5.0)	TTG	U	1858	3/16	(5.0)	TTG	U
1597	1/4	(6.0)	TTG	U	1859	1/4	(6.0)	TTG	U
1796	3/8	(10.0)	TTG	U	PPG INDS INC; CARLISLE, PA				
1797	1/2	(12.0)	TTG	U					ANSI ONLY
1798	3/16	(5.0)	TPG(S)	U	382	1/4	(6.0)	TTG	U
KUHL GLASS CORP; SAGINAW, MI					PPG INDS INC; CARLISLE, PA				
1738	3/16	(5.0)	TTG	U	250	1/8	(3.0)	TTG	U
1739	1/4	(6.0)	TTG	U	675	5/32	(4.0)	TTG	U
1740	3/8	(10.0)	TTG	U	249	3/16	(5.0)	TTG	U
1741	1/2	(12.0)	TTG	U	PPG INDS INC; FORD CITY, PA				
1783	3/16	(5.0)	TPG(M)	U	70	1/4	(6.0)	TTG	U
LAMINATED GLASS CORP; TELFORD, PA					PPG INDS INC; FRESNO, CA				
1652	1/4	(6.0)	LTG(B)(.030)	U	295	1/8	(3.0)	TTG	U
LIBBEY-OWENS-FORD CO; OTTAWA, IL					676	5/32	(4.0)	TTG	U
1813	1/8	(3.0)	TTG	U	64	3/16	(5.0)	TTG	U
1814	5/32	(4.0)	TTG	U	PPG INDS INC; BURLINGTON, IA				
1815	3/16	(5.0)	TTG	U	1605	1/8	(3.0)	TTG	U
1816	1/4	(6.0)	TTG	U	1606	5/32	(4.0)	TTG	U
MACDONALD MIRROR INC; BRAMPTON, ONTARIO, CANADA					1603	3/16	(5.0)	TTG	U
1651	1/4	(6.0)	LTG(B)(.030)	U	1604	1/4	(6.0)	TTG	U
MARVIN WINDOWS; WARROAD, MN									
1689	1/8	(3.0)	TTG	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
PPG INDS INC; WICHITA FALLS, TX					SUNBELT GLASS INC; TULSA, OK (CON'T)				
1113	1/4	(6.0)	TTG	ANSI ONLY U	1870	5/32	(4.0)	TTG	U
PPG INDS INC; WICHITA FALLS, TX					1454	3/16	(5.0)	TTG	U
1110	1/8	(3.0)	TTG	U	1455	1/4	(6.0)	TTG	U
1111	5/32	(4.0)	TTG	U	1456	3/8	(10.0)	TTG	U
1112	3/16	(5.0)	TTG	U	1457	1/2	(12.0)	TTG	U
SAINT GOBAIN; THE NETHERLANDS					1617	5/32	(4.0)	TPG(S)	U
1393	1/4	(6.0)	TTG	ANSI ONLY U	1618	3/16	(4.8)	TPG(S)	U
SHAW GLASS CO INC; SOUTH EASTON, MA					SWIFT GLASS CO INC; ELMIRA HEIGHTS, NY				
1792	5/32	(4.0)	TTG	U	1555	1/8	(3.0)	TTG	U
1871	3/16	(5.0)	TTG	U	1556	3/16	(5.0)	TTG	U
1035	1/4	(6.0)	TTG	U	1557	1/4	(6.0)	TTG	U
1036	3/8	(10.0)	TTG	U	1558	3/8	(10.0)	TTG	U
1037	1/2	(12.0)	TTG	U	1559	1/2	(12.0)	TTG	U
1793	5/32	(4.0)	TPG(S)	U	TAYLOR PRODUCTS INC; PAYNE, OH				
1299	3/16	(4.8)	TPG(S)	U	1586	1/8	(3.2)	TTG	U
SOVIS S A; FRANCE					1587	5/32	(4.0)	TTG	U
1864	1/4	(6.0)	TBG	U	1588	3/16	(5.0)	TTG	U
SPECTRUM GLASS PRODUCTS; CLINTON, NC					1589	1/4	(6.0)	TTG	U
1073	3/16	(5.0)	TTG	ANSI ONLY U	1598	3/8	(10.0)	TTG	U
1074	1/4	(6.0)	TTG	U	TEMP-TECH INDS INC; CHICAGO, IL				
1075	5/16	(8.0)	TTG	U	986	1/4	(6.0)	TTG	U
1076	3/8	(10.0)	TTG	U	TEMPERED GLASS INC; AUSTELL, GA				
1077	1/2	(12.0)	TTG	U	862	3/16	(5.0)	TTG	U
1716	5/8	(16.0)	TTG	U	863	1/4	(6.0)	TTG	U
1718	3/4	(19.0)	TTG	U	865	3/8	(10.0)	TTG	U
SPECTRUM GLASS PRODUCTS; CLINTON, NC					866	1/2	(12.0)	TTG	U
1080	3/16	(5.0)	TTG	CPSC ONLY U	TEMPGLASS INC; PERRYSBURG, OH				
1081	1/4	(6.0)	TTG	U	1039	1/8	(3.0)	TTG	U
1082	5/16	(8.0)	TTG	U	592	3/16	(5.0)	TTG	U
1083	3/8	(10.0)	TTG	U	1420	1/4	(6.0)	TTG	U
1084	1/2	(12.0)	TTG	U	594	3/8	(10.0)	TTG	U
1717	5/8	(16.0)	TTG	U	595	1/2	(12.0)	TTG	U
1719	3/4	(19.0)	TTG	U	TEMPGLASS EASTERN INC; BUFORD, GA				
STERLING PLUMBING GROUP; MALVERN, AR					979	1/8	(3.0)	TTG	U
1759	1/8	(3.0)	TTG	U	1259	5/32	(4.0)	TTG	U
1760	5/32	(4.0)	TTG	U	981	3/16	(5.0)	TTG	U
1869	3/16	(5.0)	TTG	U	982	1/4	(6.0)	TTG	U
1762	1/4	(6.0)	TTG	U	1860	5/16	(8.0)	TTG	U
1781	1/8	(3.0)	TPG(S)	U	1058	3/8	(10.0)	TTG	U
1863	3/16	(5.0)	TPG(S)	U	1059	1/2	(12.0)	TTG	U
SUMITEC INC; BENTON HARBOR, MI					1771	1/4	(6.0)	LTG(B)(.030)	U
1441	7/32	(5.6)	LTG(B)	U	1772	3/8	(10.0)	LTG(B)(.030)	U
1699	1/2	(12.0)	LTG(B)	U	1773	1/2	(12.0)	LTG(B)(.030)	U
SUNBELT GLASS INC; TULSA, OK					TEMPGLASS MIAMI; MIAMI, FL				
1453	1/8	(3.0)	TTG	U	1744	3/16	(5.0)	TTG	U
					1745	1/4	(6.0)	TTG	U
					1746	3/8	(10.0)	TTG	U
					1747	1/2	(12.0)	TTG	U
					TEMPGLASS SOUTHERN INC; GRAND PRAIRIE, TX				
					1219	3/16	(5.0)	TTG	U
					1044	1/4	(6.0)	TTG	U
					1045	3/8	(10.0)	TTG	U
					1046	1/2	(12.0)	TTG	U
					1649	1/2	(12.0)	LTG(B)(.031)	U
					TRACO (THREE RIVERS ALUM); WARRENDALE, PA				
					1308	1/8	(3.0)	TTG	U

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
TRACO (THREE RIVERS ALUM); WARRENDALE, PA (CON'T)					CERTIFIED PRODUCTS KEY TTG = TEMPERED TRANSPARENT GLASS TPG = TEMPERED PATTERNED GLASS TBG = TEMPERED BENT GLASS LTG = LAMINATED TRANSPARENT GLASS LPG = LAMINATED PATTERNED GLASS OCG = ORGANIC COATED GLASS (S) = SHALLOW PATTERN (M) = MEDIUM PATTERN (D) = DEEP PATTERN (B) = POLY VINYL BUTYRAL INTERLAYER MATERIAL (L) = LIQUID RESIN INTERLAYER MATERIAL U = UNLIMITED SIZE				
1310	3/16	(5.0)	TTG	U					
1311	1/4	(6.0)	TTG	U					
U S PRECISION GLASS; ELGIN, IL									
1369	1/8	(3.0)	TTG	U					
1370	5/32	(4.0)	TTG	U					
1371	3/16	(5.0)	TTG	U					
1372	1/4	(6.0)	TTG	U					
1854	3/8	(10.0)	TTG	U					
U S PRECISION GLASS; JEFFERSON, TX									
				ANSI ONLY					
1388	1/8	(3.2)	TPG(M)	U					
U S PRECISION GLASS; JEFFERSON, TX									
1281	1/8	(3.0)	TTG	U					
1715	5/32	(4.0)	TTG	U					
1286	3/16	(5.0)	TTG	U					
1287	1/4	(6.0)	TTG	U					
U S PRECISION GLASS; LEWISBURG, OH									
				ANSI ONLY					
188	3/16	(4.8)	TPG(S)	U					
562	7/32	(5.6)	TPG(S)	U					
654	1/8	(3.2)	TPG(M)	U					
328	3/16	(4.8)	TPG(D)	U					
U S PRECISION GLASS; LEWISBURG, OH									
1050	1/8	(3.0)	TTG	U					
1452	5/32	(4.0)	TTG	U					
185	3/16	(5.0)	TTG	U					
186	1/4	(6.0)	TTG	U					
VIRACON INC; OWATONNA, MN									
1476	1/8	(3.0)	TTG	U					
1403	3/16	(5.0)	TTG	U					
1404	1/4	(6.0)	TTG	U					
1508	3/8	(10.0)	TTG	U					
1509	1/2	(12.0)	TTG	U					
1637	3/16	(5.0)	LTG(B)(.030)	U					
1636	3/16	(5.0)	LPG(B)(.030)	U					
VIRGINIA GLASS PRODUCTS CORP; MARTINSVILLE, VA									
12	3/16	(5.0)	TTG	U					
14	1/4	(6.0)	TTG	U					
93	3/8	(10.0)	TTG	U					
94	1/2	(12.0)	TTG	U					
95	3/4	(19.0)	TTG	U					
1275	3/16	(4.8)	TPG(S)	U					

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS			
1/8 inch tempered transparent glass			
AFG Industries; Bridgeport, WV	1436		U
AFG Industries; Greenland, TN	598		U
AFG Industries; Kingsport, TN	1390		U
AFG Industries Inc; Spring Hill, KS	1702		U
AFG Glass Inc; Concord, Ontario, Canada	1485		U
American Flat Glass Dist; Alvarado, TX	1708		U
American Flat Glass Distrib; Fall River, MA	1518		U
American Flat Glass Distrib; Marietta, GA	1405		U
Anglass Industries; San Fernando, CA	520	ANSI ONLY	U
Arch Aluminum & Glass Co; Austell, GA	1765	ANSI ONLY	U
Arch Tempered Glass; Orlando, FL	1526	ANSI ONLY	U
Ardco, Inc; Chicago, IL	1041		U
Canadian Insul-Glass Corp; Ontario, CANADA	1872		U
Cardinal IG; Greenfield, IA	1827	CPSC ONLY	U
Cardinal IG; Spring Green, WI	1831	CPSC ONLY	U
Cardinal TG; Tomah, WI	1804	CPSC ONLY	U
Contour Industries; Surgoinsville, TN	1680		18" by 76"
D & S Tempered Glass; Dallas, TX	1653		U
Downey Glass Co; Los Angeles, CA	1608		U
Floral Glass & Mirror; Hauppauge, NY	1546		U
Four Seasons Solar Products; Holbrook, NY	1791		U
Free State Glass Industries; Warrenton, VA	1590		U
Gemtron Corp; Sweetwater, TN	1334		U
The Glass Factory; Ronkonkoma, NY	1458		U
Guardian Fabrication; Millbury, OH	1574	ANSI ONLY	U
Guardian Fabrication; Rogers, AR	1355	ANSI ONLY	U
Guardian Fabrication; Webster, MA	300	ANSI ONLY	U
Guardian Industries; Carleton, MI	933	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1248	ANSI ONLY	U
Guardian Industries; Fort Lauderdale, FL	1161	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	968	ANSI ONLY	U
Guardian Industries; Richburg, SC	1630	ANSI ONLY	U
Guardian Industries; Tillsonburg, Ontario, Canada	1462	ANSI ONLY	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1627	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	54		U
HGP Architectural Glass; Warrenton, MO	1379		U
Hoffer's, Inc.; Schofield, WI	1595		U
Libbey-Owens-Ford Co; Ottawa, IL	1813		U
Marvin Windows; Warroad, MN	1689		U
Nashville Tempered Glass; Nashville, TN	1416		U
Northwest Aluminum Products; Yakima, WA	1799		U
Perilstein Distributing Corp; Cheswick, PA	1784		U
PPG Industries; Carlisle, PA	250		U
PPG Industries; Fresno, CA	295		U
PPG Industries; Burlington, IA	1605		U
PPG Industries; Wichita Falls, TX	1110		U
Sterling Plumbing Group; Malvern, AR	1759		U
Sunbelt Glass, Inc; Tulsa, OK	1453		U
Swift Glass Co., Inc.; Elmira Heights, NY	1555		U
Tempglass, Inc; Perrysburg, OH	1039		U
Tempglass Eastern, Inc; Buford, GA	979		U
TRACO (Three Rivers Alum.); Warrendale, PA	1308		U
U S Precision Glass; Elgin, IL	1369		U
U S Precision Glass; Jefferson, TX	1281		U
U S Precision Glass; Lewisburg, OH	1050		U
Viracon, Inc; Owatonna, MN	1476		U
AFG Industries; Victorville, CA	1664		U
Cameron Glass Inc; Broken Arrow, OK	1736		U
Taylor Products, Inc.; Payne, OH	1586		U
5/32 inch tempered transparent glass			
AFG Industries; Bridgeport, WV	1624		U

TEMPERED TRANSPARENT GLASS - continued
5/32 inch tempered transparent glass - continued

	<u>SGCC NO.</u>	<u>MAX. SIZE CERTIFIED</u>
AFG Industries; Victorville, CA	1641	U
AFG Industries; Greenland, TN	955	U
AFG Industries; Kingsport, TN	949	U
AFG Industries Inc; Spring Hill, KS	1703	U
AFG Glass Inc; Concord, Ontario, Canada	1486	U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1754	U
Cameron Glass Inc; Broken Arrow, OK	1763	U
Canadian Insul-Glass Corp; Ontario, CANADA	1873	U
Cardinal IG; Greenfield, IA	1828	CPSC ONLY U
Cardinal IG; Spring Green, WI	1832	CPSC ONLY U
Cardinal TG; Tomah, WI	1805	CPSC ONLY U
D & S Tempered Glass; Dallas, TX	1654	U
Downey Glass Co; Los Angeles, CA	1609	U
Gemtron Corp; Sweetwater, TN	1332	U
Guardian Fabrication; Millbury, OH	1575	ANSI ONLY U
Guardian Fabrication; Rogers, AR	1616	ANSI ONLY U
Guardian Fabrication; Webster, MA	1607	ANSI ONLY U
Guardian Industries; Carleton, MI	934	ANSI ONLY U
Guardian Industries; Corsicana, TX	1249	ANSI ONLY U
Guardian Industries; Kingsburg, CA	969	ANSI ONLY U
Guardian Industries; Richburg, SC	1631	ANSI ONLY U
Guardian Inds Corp-Lewistown, PA	1866	ANSI ONLY U
Hamilton Glass Products; Vincennes, IN	1385	U
Hankuk Glass Ind; Seoul, Korea	1479	ANSI ONLY U
HGP Architectural Glass; Warrenton, MO	1380	U
Hoffer's, Inc.; Schofield, WI	1862	U
Libbey-Owens-Ford Co; Ottawa, IL	1814	U
Marvin Windows; Warroad, MN	1723	U
PPG Canada Inc; Owen Sound, Ontario	1857	U
PPG Industries; Carlisle, PA	675	U
PPG Industries; Fresno, CA	676	U
PPG Industries; Burlington, IA	1606	U
PPG Industries; Wichita Falls, TX	1111	U
Shaw Glass Co Inc; South Easton, MA	1792	U
Sterling Plumbing Group; Malvern, AR	1760	U
Sunbelt Glass, Inc; Tulsa, OK	1870	U
Taylor Products, Inc.; Payne, OH	1587	U
Tempglass Eastern, Inc; Buford, GA	1259	U
U S Precision Glass; Elgin, IL	1370	U
U S Precision Glass; Jefferson, TX	1715	U
U S Precision Glass; Lewisburg, OH	1452	U

3/16 inch tempered transparent glass

AFG Industries; Victorville, CA	1663	U
Donnelly Corp; Holland, MI	1687	30" by 76" U
ACI Glass; Greensboro, NC	1642	U
ACI Glass Products Inc; Dallas, TX	400	U
ACI Glass; Santa Fe Springs, CA	1157	U
AFG Industries; Bridgeport, WV	1795	U
AFG Industries; Greenland, TN	220	U
AFG Industries; Kingsport, TN	28	U
AFG Industries Inc; Spring Hill, KS	1704	U
AFG Glass Inc; Concord, Ontario, Canada	1487	U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1755	U
American Flat Glass Dist; Alvarado, TX	1709	U
American Flat Glass Distrib; Fall River, MA	1519	U
American Flat Glass Distrib; Marietta, GA	1230	U
Anglass Industries; San Fernando, CA	999	ANSI ONLY U
Arch Aluminum & Glass Co; Austell, GA	1766	ANSI ONLY U
Arch Tempered Glass; Orlando, FL	1527	ANSI ONLY U
Ardco, Inc; Chicago, IL	1042	U
Cameron Glass Inc; Broken Arrow, OK	1749	U
Canadian Insul-Glass Corp; Ontario, CANADA	1874	U

MAX. SIZE
CERTIFIEDSGCC NO.**TEMPERED TRANSPARENT GLASS - continued****3/16 inch tempered transparent glass - continued**

Cardinal IG; Greenfield, IA	1829	CPSC ONLY	U
Cardinal IG; Spring Green, WI	1833	CPSC ONLY	U
Cardinal TG; Tomah, WI	1806	CPSC ONLY	U
Contour Industries; Surgoinsville, TN	1678		18" by 76"
D & S Tempered Glass; Dallas, TX	1655		U
Downey Glass Co; Los Angeles, CA	630		U
Efco Corp; Monett, MO	1851		U
Floral Glass & Mirror; Hauppauge, NY	1547		U
Free State Glass Industries; Warrenton, VA	1591		U
Gemtron Corp; Sweetwater, TN	1201		U
The Glass Factory; Ronkonkoma, NY	1459		U
Glasstemp, Inc.; Bensenville, IL	1381		U
Guardian Fabrication; Millbury, OH	1576	ANSI ONLY	U
Guardian Fabrication; Rogers, AR	1356	ANSI ONLY	U
Guardian Fabrication; Webster, MA	1216	ANSI ONLY	U
Guardian Industries; Carleton, MI	631	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1250	ANSI ONLY	U
Guardian Industries; Fort Lauderdale, FL	633	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	970	ANSI ONLY	U
Guardian Industries; Richburg, SC	1632	ANSI ONLY	U
Guardian Inds Corp-Jamestown; Falconer, NY	1545	ANSI ONLY	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1628	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	1200		U
Hankuk Glass Ind; Seoul, Korea	1480	ANSI ONLY	U
HGP Architectural Glass; Warrenton, MO	1421		U
Hoffer's, Inc.; Schofield, WI	1596		U
Kuhl Glass Corp; Saginaw, MI	1738		U
Libbey-Owens-Ford Co; Ottawa, IL	1815		U
Marvin Windows; Warroad, MN	1690		U
Nashville Tempered Glass; Nashville, TN	1467		U
Northwest Aluminum Products; Yakima, WA	1800		U
Northwestern Industries; Seattle, WA	1638		U
Perilstein Distributing Corp; Cheswick, PA	1785		U
PPG Canada Inc; Owen Sound, Ontario	1858		U
PPG Industries; Carlisle, PA	249		U
PPG Industries; Fresno, CA	64		U
PPG Industries; Burlington, IA	1603		U
PPG Industries; Wichita Falls, TX	1112		U
Shaw Glass Co Inc; South Easton, MA	1871		U
Spectrum Glass Prods; Clinton, NC	1073	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1080	CPSC ONLY	U
Sterling Plumbing Group; Malvern, AR	1869		U
Sunbelt Glass, Inc; Tulsa, OK	1454		U
Swift Glass Co., Inc.; Elmira Heights, NY	1556		U
Taylor Products, Inc.; Payne, OH	1588		U
Tempered Glass, Inc; Austell, GA	862		U
Tempglass, Inc; Perrysburg, OH	592		U
Tempglass Eastern, Inc; Buford, GA	981		U
Tempglass Miami; Miami, FL	1744		U
Tempglass Southern, Inc; Grand Prairie, TX	1219		U
TRACO (Three Rivers Alum.); Warrendale, PA	1310		U
U S Precision Glass; Elgin, IL	1371		U
U S Precision Glass; Jefferson, TX	1286		U
U S Precision Glass; Lewisburg, OH	185		U
Viracon, Inc; Owatonna, MN	1403		U
Virginia Glass Products; Martinsville, VA	12		U

1/4 inch tempered transparent glass

ACI Glass; Greensboro, NC	1643		U
ACI Glass Products Inc; Dallas, TX	402		U
ACI Glass Products; Santa Clara, CA	1496		U
ACI Glass; Santa Fe Springs, CA	1535		U
AFG Industries; Bridgeport, WV	1794		U

TEMPERED TRANSPARENT GLASS - continued
1/4 inch tempered transparent glass - continued

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
AFG Industries; Greenland, TN	89		U
AFG Industries; Kingsport, TN	24		U
AFG Industries Inc; Spring Hill, KS	1705		U
AFG Glass Inc; Concord, Ontario, Canada	1489		U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1756		U
American Flat GLass Dist; Alvarado, TX	1710		U
American Flat Glass Distrib; Fall River, MA	1520		U
American Flat Glass Distrib; Marietta, GA	1231		U
Anglass Industries; San Fernando, CA	1000	ANSI ONLY	U
Arch Aluminum & Glass Co; Austell, GA	1767	ANSI ONLY	U
Arch Tempered Glass; Orlando, FL	1528	ANSI ONLY	U
Cameron Glass Inc; Broken Arrow, OK	1780		U
Canadian Insul-Glass Corp; Ontario, CANADA	1875		U
Cardinal IG; Greenfield, IA	1830	CPSC ONLY	U
Cardinal IG; Spring Green, WI	1834	CPSC ONLY	U
Cardinal TG; Tomah, WI	1807	CPSC ONLY	U
Colonial Mirror & Glass Corp; Brooklyn, NY	1847		U
Contour Industries; Surgoinsville, TN	1677		18" by 76"
D & S Tempered Glass; Dallas, TX	1656		U
Donnelly Corp; Holland, MI	1688		30" by 76"
Downey Glass Co; Los Angeles, CA	514		U
Efco Corp; Monett, MO	1852		U
Floral Glass & Mirror; Hauppauge, NY	1548		U
Free State Glass Industries; Warrenton, VA	1592		U
Gemtron Corp; Sweetwater, TN	1477		U
The Glass Factory; Ronkonkoma, NY	1460		U
Glasstemp, Inc.; Bensenville, IL	1382		U
Guardian Fabrication; Millbury, OH	1577	ANSI ONLY	U
Guardian Fabrication; Rogers, AR	1357	ANSI ONLY	U
Guardian Fabrication; Webster, MA	662	ANSI ONLY	U
Guardian Industries; Carleton, MI	131	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1251	ANSI ONLY	U
Guardian Industries; Fort Lauderdale, FL	40	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	971	ANSI ONLY	U
Guardian Industries; Richburg, SC	1633	ANSI ONLY	U
Guardian Inds Corp-Jamestown; Falconer, NY	709	ANSI ONLY	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1629	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	57		U
Hankuk Glass Ind; Seoul, Korea	1413	ANSI ONLY	U
HGP Architectural Glass; Warrenton, MO	1448		U
Hoffer's, Inc.; Schofield, WI	1597		U
Kuhl Glass Corp; Saginaw, MI	1739		U
Libbey-Owens-Ford Co; Ottawa, IL	1816		U
Marvin Windows; Warroad, MN	1691		U
Milgard Tempering Inc; Tacoma, WA	1578		U
Nashville Tempered Glass; Nashville, TN	1417		U
Northwest Aluminum Products; Yakima, WA	1801		U
Northwestern Industries; Seattle, WA	1639		U
Perilstein Distributing Corp; Cheswick, PA	1786		U
PPG Canada Inc; Owen Sound, Ontario	1859		U
PPG Industries; Carlisle, PA	382	ANSI ONLY	U
PPG Industries; Ford City, PA	70		U
PPG Industries; Burlington, IA	1604		U
PPG Industries; Wichita Falls, TX	1113	ANSI ONLY	U
Saint Gobain; The Netherlands	1393	ANSI ONLY	U
Shaw Glass Co Inc; South Easton, MA	1035		U
Spectrum Glass Prods; Clinton, NC	1074	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1081	CPSC ONLY	U
Sterling Plumbing Group; Malvern, AR	1762		U
Sunbelt Glass, Inc; Tulsa, OK	1455		U
Swift Glass Co., Inc.; Elmira Heights, NY	1557		U
Taylor Products, Inc.; Payne, OH	1589		U
Temp-Tech Industries, Inc; Chicago, IL	986		U
Tempered Glass, Inc; Austell, GA	863		U

**MAX. SIZE
CERTIFIED****SGCC NO.****TEMPERED TRANSPARENT GLASS - continued****1/4 inch tempered transparent glass - continued**

Tempglass, Inc; Perrysburg, OH	1420		U
Tempglass Eastern, Inc; Buford, GA	982		U
Tempglass Miami; Miami, FL	1745		U
Tempglass Southern, Inc; Grand Prairie, TX	1044		U
TRACO (Three Rivers Alum.); Warrendale, PA	1311		U
U S Precision Glass; Elgin, IL	1372		U
U S Precision Glass; Jefferson, TX	1287		U
U S Precision Glass; Lewisburg, OH	186		U
Viracon, Inc; Owatonna, MN	1404		U
Virginia Glass Products; Martinsville, VA	14		U

5/16 inch tempered transparent glass

Guardian Industries; Corsicana, TX	1826	ANSI ONLY	U
Hankuk Glass Ind; Seoul, Korea	1481	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1075	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1082	CPSC ONLY	U
Tempglass Eastern, Inc; Buford, GA	1860		U

3/8 inch tempered transparent glass

ACI Glass; Greensboro, NC	1644		U
ACI Glass Products Inc; Dallas, TX	1107	ANSI ONLY	U
ACI Glass Products; Santa Clara, CA	1497		U
ACI Glass; Santa Fe Springs, CA	1179		U
AFG Industries; Greenland, TN	90		U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1757		U
American Flat Glass Dist; Alvarado, TX	1711		U
American Flat Glass Distrib; Fall River, MA	1521		U
American Flat Glass Distrib; Marietta, GA	1232		U
Arch Aluminum & Glass Co; Austell, GA	1768	ANSI ONLY	U
Arch Tempered Glass; Orlando, FL	1529	ANSI ONLY	U
Colonial Mirror & Glass Corp; Brooklyn, NY	1848		U
D & S Tempered Glass; Dallas, TX	1657		U
Downey Glass Co; Los Angeles, CA	515		U
Floral Glass & Mirror; Hauppauge, NY	1549		U
Free State Glass Industries; Warrenton, VA	1593		U
Glasstemp, Inc.; Bensenville, IL	1383		U
Guardian Fabrication; Webster, MA	471	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1253	ANSI ONLY	U
Guardian Industries; Richburg, SC	1634	ANSI ONLY	U
Guardian Inds Corp-Jamestown; Falconer, NY	1280	ANSI ONLY	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1867	ANSI ONLY	U
Hankuk Glass Ind; Seoul, Korea	1482	ANSI ONLY	U
Hoffer's, Inc.; Schofield, WI	1796		U
Kuhl Glass Corp; Saginaw, MI	1740		U
Perilstein Distributing Corp; Cheswick, PA	1787		U
Shaw Glass Co Inc; South Easton, MA	1036		U
Spectrum Glass Prods; Clinton, NC	1076	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1083	CPSC ONLY	U
Sunbelt Glass, Inc; Tulsa, OK	1456		U
Swift Glass Co., Inc.; Elmira Heights, NY	1558		U
Taylor Products, Inc.; Payne, OH	1598		U
Tempered Glass, Inc; Austell, GA	865		U
Tempglass, Inc; Perrysburg, OH	594		U
Tempglass Eastern, Inc; Buford, GA	1058		U
Tempglass Miami; Miami, FL	1746		U
Tempglass Southern, Inc; Grand Prairie, TX	1045		U
U S Precision Glass; Elgin, IL	1854		U
Viracon, Inc; Owatonna, MN	1508		U
Virginia Glass Products; Martinsville, VA	93		U

1/2 inch tempered transparent glass

ACI Glass; Greensboro, NC	1645		U
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	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS - continued			
1/2 inch tempered transparent glass - continued			
ACI Glass Products Inc; Dallas, TX	1108	ANSI ONLY	U
ACI Glass Products; Santa Clara, CA	1498		U
ACI Glass; Santa Fe Springs, CA	640		U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1758		U
American Flat GLass Dist; Alvarado, TX	1712		U
American Flat Glass Distrib; Fall River, MA	1522		U
American Flat Glass Distrib; Marietta, GA	1406		U
Arch Aluminum & Glass Co; Austell, GA	1769	ANSI ONLY	U
Arch Tempered Glass; Orlando, FL	1530	ANSI ONLY	U
Colonial Mirror & Glass Corp; Brooklyn, NY	1849		U
D & S Tempered Glass; Dallas, TX	1658		U
Downey Glass Co; Los Angeles, CA	516		U
Floral Glass & Mirror; Hauppauge, NY	1550		U
Free State Glass Industries; Warrenton, VA	1594		U
The Glass Factory; Ronkonkoma, NY	1461		U
Glasstemp, Inc.; Bensenville, IL	1384		U
Guardian Fabrication; Webster, MA	1235	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1803	ANSI ONLY	U
Guardian Inds Corp-Jamestown; Falconer, NY	711	ANSI ONLY	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1868	ANSI ONLY	U
Hankuk Glass Ind; Seoul, Korea	1483	ANSI ONLY	U
Hoffer's, Inc.; Schofield, WI	1797		U
Kuhl Glass Corp; Saginaw, MI	1741		U
Perilstein Distributing Corp; Cheswick, PA	1788		U
Shaw Glass Co Inc; South Easton, MA	1037		U
Spectrum Glass Prods; Clinton, NC	1077	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1084	CPSC ONLY	U
Sunbelt Glass, Inc; Tulsa, OK	1457		U
Swift Glass Co., Inc.; Elmira Heights, NY	1559		U
Tempered Glass, Inc; Austell, GA	866		U
Tempglass, Inc; Perrysburg, OH	595		U
Tempglass Eastern, Inc; Buford, GA	1059		U
Tempglass Miami; Miami, FL	1747		U
Tempglass Southern, Inc; Grand Prairie, TX	1046		U
Viracon, Inc; Owatonna, MN	1509		U
Virginia Glass Products; Martinsville, VA	94		U
5/8 inch tempered transparent glass			
Spectrum Glass Prods; Clinton, NC	1716	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1717	CPSC ONLY	U
3/4 inch tempered transparent glass			
ACI Glass Products Inc; Dallas, TX	1225	ANSI ONLY	U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1782		U
Arch Tempered Glass; Orlando, FL	1835	ANSI ONLY	U
Floral Glass & Mirror; Hauppauge, NY	1551		U
Guardian Inds Corp-Jamestown; Falconer, NY	712	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1718	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1719	CPSC ONLY	U
Virginia Glass Products; Martinsville, VA	95		U
TEMPERED PATTERNED GLASS			
1/8 inch tempered patterned glass (shallow)			
ACI Glass; Santa Fe Springs, CA	1861		U
Arch Tempered Glass; Orlando, FL	1531	ANSI ONLY	U
Cardinal IG; Greenfield, IA	1841	CPSC ONLY	U
Cardinal IG; Spring Green, WI	1844	CPSC ONLY	U
Contour Industries; Surgoinsville, TN	1676		18" by 60"
D & S Tempered Glass; Dallas, TX	1659		U
Marvin Windows; Warroad, MN	1724		U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
TEMPERED PATTERNED GLASS - continued			
1/8 inch tempered patterned glass (shallow) - continued			
Northwest Aluminum Products; Yakima, WA	1802		U
Perilstein Distributing Corp; Cheswick, PA	1789		U
Sterling Plumbing Group; Malvern, AR	1781		U
AFG Industries; Greenland, TN	587		U
Floral Glass & Mirror; Hauppauge, NY	1552		U
Gemtron Corp; Sweetwater, TN	1422		U
Guardian Fabrication; Rogers, AR	1358	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1463	ANSI ONLY	U
Guardian Industries; Fort Lauderdale, FL	1665	ANSI ONLY	30" by 70"
Guardian Industries; Richburg, SC	1683	ANSI ONLY	U
1/8 inch tempered patterned glass (medium)			
AFG Industries; Kingsport, TN	1414		U
Downey Glass Co; Los Angeles, CA	1611		U
Guardian Industries; Kingsburg, CA	1303	ANSI ONLY	U
U S Precision Glass; Jefferson, TX	1388	ANSI ONLY	U
U S Precision Glass; Lewisburg, OH	654	ANSI ONLY	U
5/32 inch tempered patterned glass (shallow)			
American Flat Glass Dist; Alvarado, TX	1713		U
American Flat Glass Distrib; Fall River, MA	1524		U
American Flat Glass Distrib; Marietta, GA	1428		U
Arch Tempered Glass; Orlando, FL	1682	ANSI ONLY	U
Cardinal IG; Greenfield, IA	1842	CPSC ONLY	U
Cardinal IG; Spring Green, WI	1845	CPSC ONLY	U
D & S Tempered Glass; Dallas, TX	1660		U
Gemtron Corp; Sweetwater, TN	1424		U
Guardian Fabrication; Rogers, AR	1359	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1737	ANSI ONLY	U
Guardian Industries; Richburg, SC	1635	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	1386		U
Shaw Glass Co Inc; South Easton, MA	1793		U
Sunbelt Glass, Inc; Tulsa, OK	1617		U
5/32 inch tempered patterned glass (medium)			
Guardian Industries; Kingsburg, CA	1301	ANSI ONLY	U
3/16 inch tempered patterned glass (shallow)			
AFG Industries; Greenland, TN	1139		U
AFG Industries; Kingsport, TN	1143		U
American Flat Glass Distrib; Fall River, MA	1523		U
American Flat Glass Distrib; Marietta, GA	1415		U
Arch Tempered Glass; Orlando, FL	1562	ANSI ONLY	U
D & S Tempered Glass; Dallas, TX	1661		U
Downey Glass Co; Los Angeles, CA	935		U
Guardian Industries; Fort Lauderdale, FL	1318	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	1304	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	1387		U
Shaw Glass Co Inc; South Easton, MA	1299		U
Sunbelt Glass, Inc; Tulsa, OK	1618		U
U S Precision Glass; Lewisburg, OH	188	ANSI ONLY	U
Virginia Glass Products; Martinsville, VA	1275		U
3/16 inch tempered patterned glass (deep)			
Guardian Fabrication; Rogers, AR	1394	ANSI ONLY	U
U S Precision Glass; Lewisburg, OH	328	ANSI ONLY	U
3/16 inch tempered patterned glass (shallow)			
ACI Glass Products Inc; Dallas, TX	1728	ANSI ONLY	U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
TEMPERED PATTERNED GLASS - continued			
3/16 inch tempered patterned glass (shallow) - continued			
American Flat Glass Dist; Alvarado, TX	1714		U
Cardinal IG; Greenfield, IA	1843	CPSC ONLY	U
Cardinal IG; Spring Green, WI	1846	CPSC ONLY	U
Efco Corp; Monett, MO	1853		U
Guardian Industries; Richburg, SC	1865	ANSI ONLY	U
Hoffer's, Inc.; Schofield, WI	1798		U
Marvin Windows; Warroad, MN	1701		U
Sterling Plumbing Group; Malvern, AR	1863		U
3/16 inch tempered patterned glass (medium)			
Kuhl Glass Corp; Saginaw, MI	1783		U
7/32 inch tempered patterned glass (shallow)			
ACI Glass Products; Santa Clara, CA	1495		U
Downey Glass Co; Los Angeles, CA	678		U
Floral Glass & Mirror; Hauppauge, NY	1553		U
Guardian Industries; Corsicana, TX	1464	ANSI ONLY	U
U S Precision Glass; Lewisburg, OH	562	ANSI ONLY	U
3/16 inch tempered patterned glass			
Perilstein Distributing Corp; Cheswick, PA	1790		U
SAFETY PLASTIC SHEET			
.080 inch through 0.125 inch acrylic			
Flex-O-Glass, Inc; Dixon, IL	118		U
TEMPERED BENT GLASS			
5/32 inch Tempered Bent Glass			
Ardco, Inc; Chicago, IL	1563		U
3/16 inch Tempered Bent Glass			
Ardco, Inc; Chicago, IL	1564		U
Glasstemp, Inc.; Bensenville, IL	1808		U
1/4 inch Tempered Bent Glass			
Ardco, Inc; Chicago, IL	1565		U
Glasstemp, Inc.; Bensenville, IL	1809		U
Sovis S A; France	1864		U
3/8 inch Tempered Bent Glass			
Glasstemp, Inc.; Bensenville, IL	1536		U
1/2 inch Tempered Bent Glass			
Glasstemp, Inc.; Bensenville, IL	1533		U
LAMINATED TRANSPARENT-BUTYRAL			
3/16 inch laminated transparent-butyral			
Northwestern Industries; Seattle, WA	1640		U
Pan Lam Industries; Bothell, WA	1647		U
Viracon, Inc; Owatonna, MN	1637		U
7/32 inch laminated transparent-butyral			
Guardian Industries; Upper Sandusky, OH	458	ANSI ONLY	U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
LAMINATED TRANSPARENT-BUTYRAL - continued			
7/32 inch laminated transparent-butyral			
Guardian Inds Corp-Lewistown; Lewistown, PA	1282	ANSI ONLY	U
American Flat Glass Distrib; Marietta, GA	1810		U
Sumitec, Inc.; Benton Harbor, MI	1441		U
1/4 inch laminated transparent-butyral			
American Flat Glass Distrib; Marietta, GA	1706		U
Globe-Amerada; Selma, AL	1668		U
Guardian Industries; Upper Sandusky, OH	487	ANSI ONLY	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1284	ANSI ONLY	U
Laminated Glass Corp; Telford, PA	1652		U
Macdonald Mirror; Brampton, Ontario, CANADA	1651		U
Tempglass Eastern, Inc; Buford, GA	1771		U
3/8 inch laminated transparent-butyral			
Guardian Inds Corp-Lewistown; Lewistown, PA	1315	ANSI ONLY	U
Tempglass Eastern, Inc; Buford, GA	1772		U
1/2 inch laminated transparent-butyral			
Guardian Inds Corp-Lewistown; Lewistown, PA	1316	ANSI ONLY	U
Sumitec, Inc.; Benton Harbor, MI	1699		U
Tempglass Eastern, Inc; Buford, GA	1773		U
Tempglass Southern, Inc; Grand Prairie, TX	1649		U
LAMINATED TRANSPARENT-RESIN			
9/32 inch laminated transparent-resin			
Arch Tempered Glass; Orlando, FL	1855	ANSI ONLY	U
LAMINATED PATTERNED-BUTYRAL			
3/16 inch laminated patterned-butyral (shallow)			
Viracon, Inc; Owatonna, MN	1636		U

ACI GLASS

2710 Patterson St
Greensboro NC 27407

AFG INDS INC

PO Box 929
Kingsport TN 37662

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TEMPERED
16 CFR 1201-C II
ANSI Z97.1 1984
1/8U SGCC-1390
AFG 006

BS 5206A

ACI GLASS PRODUCTS INC

12900 Nicholson Rd
PO Box 815547
Dallas TX 75381-5547

AFG GLASS INC

75 Doney Crescent
Concord Ontario L4K 1P6
CANADA



TEMPERED SAFETY GLASS

16CFR1201 CII
ANSI Z97.1-1984 3/16"U
SGCC 400



— TEMPERED/TREMPE
— ANSI Z97.1 — 1984
16 CFR 1201 II
SGCC 1489 1/4 U

A S 2 DOT 163 MO6
CAN 2 12.1 8G

ACI GLASS PRODUCTS

2765 Lafayette St
Santa Clara CA 95050

ALL TEAM GLASS & MIRROR LTD

281 Hanlon Rd
Woodbridge Ontario L4L 3R7
CANADA



TEMPERED SAFETY GLASS
16 CFR 1201 CAT. II
ANSI Z97.1-1984
SGCC 1494 3/16 U

ACI GLASS PRODUCTS INC

9010 S Norwalk Blvd
Santa Fe Springs CA 90670

AMERICAN FLAT GLASS DIST

3200 Austell Rd
Marietta GA 30060

AFGD

ANSI Z97.1-1984
16CFR 1201-CII
SGCC 1232 3/8" U

ANGLASS INDS INC
12364 Gladstone Ave
San Fernando CA 91342



CAMERON GLASS INC
PO Box 471500
Tulsa OK 74147-1500

CAMERON GLASS
SAFETY TEMPERED
ANSI Z97.1-1984
16 CFR 1201 CII
SGCC-1736 1/8U

ARCH ALUMINUM & GLASS CO
1470 Dale Court
Austell GA 30001

CANADIAN INSUL-GLASS CORP
384 Exter Rd
London Ontario N6E 2Z4
CANADA

ARCH TEMPERED GLASS PRODUCTS
3320 Maggie Blvd
Orlando FL 32811

CARDINAL IG
Iowa 25 N
PO Box 99
Greenfield IA 50849

CIG #2 TEMPERED
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SGCC-1829 3/16U

ARDCO INC
12400 S Laramie Ave
Chicago IL 60658

CARDINAL IG
1011 E Madison St
Spring Green WI 53588

Ardco TemperBent

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16 CFR 1201-CII
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JANUARY 1, 1993

SGCC 45

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Tomah WI 54660

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414 E 40th St
Holland MI 49423-5368

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DOWNEY GLASS CO

5631 Ferguson Dr
Los Angeles CA 90022



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Surgoinsville TN 37873

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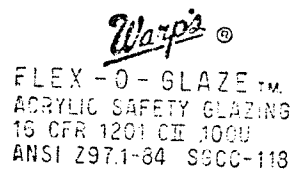
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Chicago IL 60651



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Hauppauge NY 11788

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FLORAL GLASS & MIRROR
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SGCC-1553 7/32 U

GLASS FACTORY INC

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Glass Factory
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1/4"-U 69

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SGCC 1592 1/4" U

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Elk Grove Village IL 60007

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AS I
90


GEMTRON CORP

New Highway 68
PO Box 416
Sweetwater TN 37874

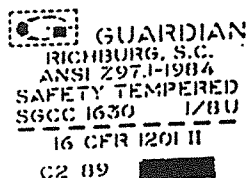
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3/16 U - SGCC-1201/1202
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Glass Fabricating Div
5103 Janice Ave
Schofield WI 54476

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SGCC 1595 1/8

HAMILTON GLASS PRODUCTS INC
2000 Chestnut St
PO Box 317
Vincennes IN 47591

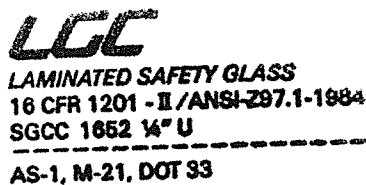
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16 CFR 1201 C II

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dba/ Thermaglas Corp
1930 S 23rd St
PO Box 1426
Saginaw MI 48605

HANKUK GLASS INDUSTRIES INC
451 Yeo Ui Do-Dong
Young Deung Po-Ku
Seoul KOREA 150



LAMINATED GLASS CORP
375 E Church Ave
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Telford PA 18969-1003



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16 CFR 1201-1, 11 SGCC-1081

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Columbus OH 43228

STERLING PLUMBING GROUP
1215 Industrial Lane
Malvern AR 72104

SAINT GOBAIN
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SGCC-1393 1/4 U

SHAW GLASS CO INC
55 Bristol Dr
S Easton MA 02375

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470 N Paw Paw Ave
PO Box 188
Benton Harbor MI 49022

SOLAR TEMP.
16 CFR 1201 11

ANSI Z 97.1- 1984
1/4 U SGCC 1035

SUMITEC INC.
SGCC 1699
1/2 U
ANSI Z97.1
1984
16 CFR 1201-CII

SOVIS S A
c/o Euroglas Glasrep Corp
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Ste 920
White Plains NY 10601

SUNBELT GLASS INC
8531 E 44th St
Tulsa OK 74145

SUNTEMP® 1-87
SAFETY TEMPERED
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16 CFR 1201 CII
SGCC-1453 1/8 U

SWIFT GLASS CO INC
 131 W 22nd St
 Elmira Heights NY 14903

TEMPGLASS INC
 Ampoint
 291 M St
 Perrysburg OH 43551

TEMPGLASS, INC.
16 CFR 1201 CH
ANSI Z97.1 - 1984
SGCC 1420
1/4 - U (1)

TAYLOR PRODUCTS INC
 N Laura St
 PO Box 77
 Payne OH 45880

TEMPGLASS EASTERN INC
 600 Heraeus Blvd
 Buford GA 30518

TEMPGLASS
EASTERN
ANSI Z97.1-1984
16CFR 1201-II
SGCC-979 1/4" U
85


TEMP-TECH INDS INC
 6166 S Sayre
 Chicago IL 60638

TEMPGLASS MIAMI
 17851 N W Miami Court
 Miami FL 33169

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 7160 Delta Circle
 Austell GA 30001

TEMPGLASS SOUTHERN INC
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 Grand Prairie TX 75050

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- SGCC-321 SGCC-863 •

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SGCC 1044 1/4" U
16 CFR 1201-II

JANUARY 1, 1993

SGCC 51

TRACO (THREE RIVERS ALUM)

Cranberry Industrial Pk
PO Box 805
Warrendale PA 15095



**TIRACO VIEW-SAFE
TEMPERED GLASS
ANSI Z97.1-1984
16 CFR 1201 II
SGCC-1313 1/2U**

U S PRECISION GLASS

1900 Holmes Rd
Elgin IL 60123

VIRACON INC

800 Park Dr
PO Box 248
Owatonna MN 55060

**VIRACON
TEMPERED
16 CFR 1201 II
SGCC 1404 1/4" U
ANSI Z97.1 1984
1 85**

VIRGINIA GLASS PRODUCTS CORP

PO Box 5431
Martinsville VA 24115



"American National Standard for Safety Glazing Materials used in Buildings -
Safety Performance Specifications and Methods of Test: ANSI Z97.1-1984"

Copies of ANSI Z97.1-1984 may be obtained from:

American National Standards Institute
11 W 42nd St #13thf
New York, NY 10036-8002

"Consumer Product 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 from:

Consumer Products Safety Commission
5401 Westbard Avenue
Bethesda, MD 20016



safety glazing certification council

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Telephone: 612-636-3835

Architectural Testing Inc
Two Interchange Pl
York PA 17402-9899
Attention: Mr David Moyer
Telephone: 717-846-7700

Bowser-Morner Inc
4518 Taylorsville Rd
PO Box 51
Dayton OH 45424
Attention: Mr Robert J Rosencrans
Telephone: 513-236-8805

Construction Consulting Laboratory Inc
Western Division
4751 W State St Ste E
Ontario CA 91762
Attention: Mr Ray Charland
Telephone: 714-591-1789

ETL Testing Laboratories Inc
4317-A Park Dr N W
Norcross GA 30093
Attention: Mr William Penue
Telephone: 404-925-2444

ETL Testing Laboratories Inc
Ind Pk 3933 US Route 11
Cortland NY 13045-0950
Attention: Mr Kenneston R Bleck
Telephone: 607-753-6711

Miami Testing Laboratory Inc
1640 W 32nd Pl
Hialeah FL 33012
Attention: Mr James W Bailey
Telephone: 305-822-1141

Pacific Inspection & Research Laboratory
4076-148th Ave N E
Redmond WA 98052
Attention: Mr Ronald Carlson
Telephone: 206-881-7668

Patzig Testing Laboratories Co Inc
3922 Delaware Ave
Des Moines IA 50313
Attention: Mr Carl C Andreassen S E T
Telephone: 515-266-5101

Southwestern Laboratories Inc
2200 Gravel Dr; PO Box 1379
Fort Worth TX 76101-1379
Attention: Mr Kemp E Akeman P E
Telephone: 817-284-7755

Warnock Hersey International Inc
530 Garcia Ave
Pittsburg CA 94565
Attention: Mr Vijay G Ruikar, P E
Telephone: 510-432-7344

Warnock Hersey International Inc
8431 Murphy Dr
PO Box 735
Middleton WI 53562
Attention: Frederick D Curkeet P E
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