



safety glazing certification council

JANUARY 1, 1995

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 meets once each six months. Minutes of these meetings may be obtained by writing to the Administrative Manager of the Safety Glazing Certification Council (SGCC).

* * * * *

Certification in this directory is current as of the date of issue; however, products may be certified or have certification removed from time to time. For the most current information, please contact the Administrative Manager of SGCC.

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

Robert A. Moss - 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.	Mark Cody	Thomas J. Newbourn	
All Team Glass & Mirror Ltd			
American Flat Glass Distributors	Mark Cody		
Anglass Industries, Inc.			
Arch Aluminum & Glass Co Inc			
Arch Tempered Glass Products	Danny M. Haney		
Architectural Safety Glass	George Sutorka		
Ardco, Inc.	Andrew G. Menke		
Canadian Insul-Glass Corp	Bill Bouwmeester		
Cardinal CG	Steve Klaras		
Cardinal IG	Robert Spindler	Oak Moser	
Cardinal TG			
Colonial Mirror & Glass Corp			
Commercial Insulating Glass Co	Jeff Winsler		
Contour Inds Inc.			
D & S Tempered Glass			
Coraglass Inc	Patrick Conner		
X Donnelly Corp. GEMTRON HOWLAND OUT	Chris Steininger Sr.	Gary Weaver	Ed Kane
Downey Glass Company	Luis O. Soto	Tom Jaskowiak	Robert Mastrapa
EFCO Corp			
Flex-O-Glass, Inc.	Harold G. Warp	Alfred R. Hunsicker	
Floral Glass & Mirror, Inc.	Charles Kaplanek		
Four Seasons Solar Products			
Free State Glass Industries	Canrad Miller	Ken Peace	
Gardner Mirror Corporation	Colin Adams		
Gemtron Corp.	Robert A. Moss	Jack Francis	Bill Long
Glass Factory, Inc., The			
Globe-Amerada Glass Co (Assurance)	Cheri Kellman	Walt Myers	
Guardian Fabrication, Inc.	John Jablonski	Kathryn M. Pell	HENRY GORREY
Guardian Industries Corp.	John Jablonski	Kathryn M. Pell	Mark J. Steffanin
Hamilton Glass Products, Inc.	Robert A. Moss	William D. Hodgdon	Mark J. Steffanin
Hoffer's, Inc.	James Sorge	Kevin Schulz	J. Bruce Crockett
Interpane Spectrum Inc	John Neunlist	James Brewington	Ken Lancaster
GLASS CO			Tony Lee

SGCC CERTIFICATION COMMITTEE

Licensee	Primary Member	First Alternate	Second Alternate
Laminated Glass Corp.	Mike Lerner		
Libbey-Owens-Ford Co	Kevin Kuball	Tom O'Brock	Rick Frampton
Marvin Windows	James Krahn	Doug Steinbring	
Milgard Tempering Inc.			
Mirror Factory Inc.	Tom Carlson		
Nashville Tempered Glass Corp.			
North American Glass Industries, Inc.	Doug Cornelius		
Northwest Aluminum Products, Inc.	Stan Shaw	Steve Jones	
Northwestern Industries, Inc.	Steve Nelson	Tim McQuade	James Levingston
Perilstein Distributing Corp			
PFG Building Glass (PTY) Ltd			
PPG Industries, Inc.	Charles Richeson	Bradley P. Boone	
Shaw Glass Company, Inc.	Frederic P. Shaw	Dennis Johnson	Walter Gilpatrick
Romag Security Laminators			
Sovis S A			
Sterling Plumbing Group			
Sunbelt Glass Inc.	Mike Kelley		
Swift Glass Company, Inc.	Daniel J. Burke	Anthony Speciale	Wayne Brown
Taylor Products, Inc.			
Tempered Glass, Inc.	Douglas A. Sampsel	Joel Wrenn	
Temperit AG			
Tempglass, Inc.	William Coddington	John Colapietro	
Tempglass Miami	William Coddington	John Colapietro	
XTempglass Southern, Inc.	William Coddington	John Colapietro	
Tempglass Western, Inc.			
TRACO (Three Rivers Aluminum)	Robert P. Randall	John Kalakos	
U S Precision Glass	Perry Gregorcy	Chris Alder	
Viracon, Inc.	Bill Knutsen	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
Wiss Janney Elstner Associates	Bill Nugent

Members from those without certified products.

Dupont Company	John W. Turnbull
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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. This fee must be submitted within 6 months of completion of item b). Failure to do so will result in the need to resubmit item b). (Revised 10/22/93)

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.
3933 US Route 11
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Cortland, NY 13045-0950
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 except as noted in Guideline G.27. (Revised 4/21/94)

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.) When testing to the impact test criteria in 16 CFR 1201.4(a)(1), four specimens shall be tested or as noted in guideline G.27. (Revised 10/22/93)

T.2

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

T.3

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

T.4

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

T.5

Certification of any nominal thickness of tempered safety 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. When testing to the impact test criteria in 16 CFR 1201.4(a)(1), four specimens shall be tested or as noted in guideline G.27. (Revised 10/22/93)

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. When testing to the impact test criteria in 16 CFR 1201.4(a)(1), four specimens shall be tested or as noted in guideline G.27. (Revised 10/22/93)

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 (ANSI-ONLY)

~~P.1~~ Certification of one tint or color of rigid plastic will also cover other tints, colors, flat configurations or bent and formed configurations.

P.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 ^aAcrylic, (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 ^aAcrylic: 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 (ANSI ONLY)

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 Heraeus DSET Laboratories, Inc. near Phoenix, Arizona or equivalent. It shall be operated in accordance with "Standard Practice for Performing EMMA (QUA)R - Accelerated Outdoor Weathering of Nonmetallic Materials Using Concentrated Natural Sunlight," ASTM Standard G90. 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 langley (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. (Revised 4/22/94)

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 langley (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 (ANSI 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.

DEL
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. When testing to the impact test criteria in 16 CFR 1201.4(a)(1), four specimens shall be tested or as noted in guideline G.27. (Revised 10/22/93) *FOR ORGANIC COATED HYBRID, REFERENCE MEMORANDUM 940329-1.*

AG.2

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

(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	(170) Crepe

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) Mistron 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	(171) Crepe		

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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1/4 inch shallow

(169) P-516

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
12 Virginia Glass Products	935 Downey Glass Co	1304 Guardian Industries - ANSI
14 Virginia Glass Products	949 AFG Industries	1308 TRACO (Three Rivers Alum.)
24 AFG Industries	955 AFG Industries	1310 TRACO (Three Rivers Alum.)
28 AFG Industries	968 Guardian Industries - ANSI	1311 TRACO (Three Rivers Alum.)
40 Guardian Industries - ANSI	969 Guardian Industries - ANSI	1316 Guardian Inds Corp-Lewis**wn
54 Hamilton Glass Products	970 Guardian Industries - ANSI	1318 Guardian Industries - ANSI
57 Hamilton Glass Products	971 Guardian Industries - ANSI	1332 Gemtron Corp
64 PPG Industries	999 Anglass Industries - ANSI	1334 Gemtron Corp
89 AFG Industries	1000 Anglass Industries - ANSI	1355 Guardian Fabrication - ANSI
90 AFG Industries	1035 Shaw Glass Co Inc	1356 Guardian Fabrication - ANSI
93 Virginia Glass Products	1036 Shaw Glass Co Inc	1357 Guardian Fabrication - ANSI
94 Virginia Glass Products	1037 Shaw Glass Co Inc	1358 Guardian Fabrication - ANSI
95 Virginia Glass Products	1039 Tempglass, Inc	1359 Guardian Fabrication - ANSI
118 Flex-O-Glass, Inc	1041 Ardco, Inc	1369 U S Precision Glass
131 Guardian Industries - ANSI	1042 Ardco, Inc	1370 U S Precision Glass
185 U S Precision Glass	1044 Tempglass Southern, Inc	1371 U S Precision Glass
186 U S Precision Glass	1045 Tempglass Southern, Inc	1372 U S Precision Glass
188 U S Precision Glass - ANSI	1046 Tempglass Southern, Inc	1381 North American Glass Inds Inc
220 AFG Industries	1050 U S Precision Glass	1382 North American Glass Inds Inc
249 PPG Industries	1073 Interpane Spectrum Inc	1383 North American Glass Inds Inc
250 PPG Industries	1074 Interpane Spectrum Inc	1384 North American Glass Inds Inc
295 PPG Industries	1075 Interpane Spectrum Inc	1385 Hamilton Glass Products
300 Guardian Fabrication - ANSI	1076 Interpane Spectrum Inc	1386 Hamilton Glass Products
328 U S Precision Glass - ANSI	1077 Interpane Spectrum Inc	1387 Hamilton Glass Products
382 PPG Industries - ANSI	1107 ACI Glass Products Inc - ANSI	1388 U S Precision Glass - ANSI
400 ACI Glass Products Inc	1108 ACI Glass Products Inc - ANSI	1390 AFG Industries
402 ACI Glass Products Inc	1110 PPG Industries	1394 Guardian Fabrication - ANSI
458 Guardian Industries - ANSI	1111 PPG Industries	1403 Viracon, Inc
471 Guardian Fabrication - ANSI	1112 PPG Industries	1404 Viracon, Inc
487 Guardian Industries - ANSI	1113 PPG Industries - ANSI	1405 American Flat Glass Distrib
514 Downey Glass Co	1139 AFG Industries	1406 American Flat Glass Distrib
515 Downey Glass Co	1143 AFG Industries	1414 AFG Industries
516 Downey Glass Co	1157 ACI Glass	1415 American Flat Glass Distrib
520 Anglass Industries - ANSI	1161 Guardian Industries - ANSI	1416 Nashville Tempered Glass
562 U S Precision Glass - ANSI	1179 ACI Glass	1417 Nashville Tempered Glass
587 AFG Industries	1200 Hamilton Glass Products	1420 Tempglass, Inc
592 Tempglass, Inc	1201 Gemtron Corp	1422 Gemtron Corp
594 Tempglass, Inc	1216 Guardian Fabrication - ANSI	1424 Gemtron Corp
595 Tempglass, Inc	1219 Tempglass Southern, Inc	1428 American Flat Glass Distrib
598 AFG Industries	1225 ACI Glass Products Inc - ANSI	1436 AFG Industries
630 Downey Glass Co	1230 American Flat Glass Distrib	1441 North American Glass Inds Inc
631 Guardian Industries - ANSI	1231 American Flat Glass Distrib	1452 U S Precision Glass
633 Guardian Industries - ANSI	1232 American Flat Glass Distrib	1453 Sunbelt Glass, Inc
640 ACI Glass	1235 Guardian Fabrication - ANSI	1454 Sunbelt Glass, Inc
654 U S Precision Glass - ANSI	1248 Guardian Industries - ANSI	1455 Sunbelt Glass, Inc
662 Guardian Fabrication - ANSI	1249 Guardian Industries - ANSI	1456 Sunbelt Glass, Inc
675 PPG Industries	1250 Guardian Industries - ANSI	1457 Sunbelt Glass, Inc
676 PPG Industries	1251 Guardian Industries - ANSI	1458 The Glass Factory
678 Downey Glass Co	1253 Guardian Industries - ANSI	1459 The Glass Factory
862 Tempered Glass, Inc	1281 U S Precision Glass	1460 The Glass Factory
863 Tempered Glass, Inc	1282 Guardian Inds Corp-Lewis**wn	1461 The Glass Factory
865 Tempered Glass, Inc	1286 U S Precision Glass	1462 Guardian Industries - ANSI
866 Tempered Glass, Inc	1287 U S Precision Glass	1463 Guardian Industries - ANSI
933 Guardian Industries - ANSI	1301 Guardian Industries - ANSI	1464 Guardian Industries - ANSI
934 Guardian Industries - ANSI	1303 Guardian Industries - ANSI	1467 Nashville Tempered Glass

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
1476 Viracon, Inc	1594 Free State Glass Industries	1682 Arch Tempered Glass - ANSI
1477 Gemtron Corp	1595 Hoffer's, Inc.	1683 Guardian Industries - ANSI
1485 AFG Glass Inc	1596 Hoffer's, Inc.	1687 Donnelly Corp
1486 AFG Glass Inc	1597 Hoffer's, Inc.	1688 Donnelly Corp
1489 AFG Glass Inc	1598 Taylor Products, Inc.	1689 Marvin Windows
1495 ACI Glass Products	1603 PPG Industries	1690 Marvin Windows
1496 ACI Glass Products	1604 PPG Industries	1691 Marvin Windows
1497 ACI Glass Products	1605 PPG Industries	1699 North American Glass Inds Inc
1498 ACI Glass Products	1606 PPG Industries	1701 Marvin Windows
1508 Viracon, Inc	1607 Guardian Fabrication - ANSI	1702 AFG Industries Inc
1509 Viracon, Inc	1608 Downey Glass Co	1703 AFG Industries Inc
1518 American Flat Glass Distrib	1609 Downey Glass Co	1704 AFG Industries Inc
1519 American Flat Glass Distrib	1611 Downey Glass Co	1705 AFG Industries Inc
1520 American Flat Glass Distrib	1616 Guardian Fabrication - ANSI	1708 American Flat Glass Dist
1521 American Flat Glass Distrib	1617 Sunbelt Glass, Inc	1709 American Flat Glass Dist
1522 American Flat Glass Distrib	1618 Sunbelt Glass, Inc	1710 American Flat Glass Dist
1523 American Flat Glass Distrib	1624 AFG Industries	1711 American Flat Glass Dist
1526 Arch Tempered Glass - ANSI	1627 Guardian Inds Corp-Lewis**wn	1712 American Flat Glass Dist
1527 Arch Tempered Glass - ANSI	1628 Guardian Inds Corp-Lewis**wn	1713 American Flat Glass Dist
1528 Arch Tempered Glass - ANSI	1629 Guardian Inds Corp-Lewis**wn	1714 American Flat Glass Dist
1530 Arch Tempered Glass - ANSI	1630 Guardian Industries - ANSI	1715 U S Precision Glass
1531 Arch Tempered Glass - ANSI	1631 Guardian Industries - ANSI	1723 Marvin Windows
1533 North American Glass Inds Inc	1632 Guardian Industries - ANSI	1724 Marvin Windows
1535 ACI Glass	1633 Guardian Industries - ANSI	1728 ACI Glass Products Inc - ANSI
1536 North American Glass Inds Inc	1634 Guardian Industries - ANSI	1737 Guardian Industries - ANSI
1546 Floral Glass & Mirror	1635 Guardian Industries - ANSI	1744 Tempglass Miami
1547 Floral Glass & Mirror	1636 Viracon, Inc	1745 Tempglass Miami
1548 Floral Glass & Mirror	1637 Viracon, Inc	1746 Tempglass Miami
1549 Floral Glass & Mirror	1638 Northwestern Industries	1747 Tempglass Miami
1550 Floral Glass & Mirror	1639 Northwestern Industries	1754 All Team Glass & Mirror Ltd
1551 Floral Glass & Mirror	1640 Northwestern Industries	1755 All Team Glass & Mirror Ltd
1552 Floral Glass & Mirror	1641 AFG Industries	1756 All Team Glass & Mirror Ltd
1553 Floral Glass & Mirror	1642 ACI Glass	1757 All Team Glass & Mirror Ltd
1555 Swift Glass Co., Inc.	1643 ACI Glass	1758 All Team Glass & Mirror Ltd
1556 Swift Glass Co., Inc.	1644 ACI Glass	1759 Sterling Plumbing Group
1557 Swift Glass Co., Inc.	1645 ACI Glass	1760 Sterling Plumbing Group
1558 Swift Glass Co., Inc.	1649 Tempglass Southern, Inc	1761 Sterling Plumbing Group
1559 Swift Glass Co., Inc.	1652 Laminated Glass Corp	1762 Sterling Plumbing Group
1562 Arch Tempered Glass - ANSI	1653 D & S Tempered Glass	1765 Arch Aluminum & Glass Co**
1563 Ardco, Inc	1654 D & S Tempered Glass	1766 Arch Aluminum & Glass Co**
1564 Ardco, Inc	1655 D & S Tempered Glass	1767 Arch Aluminum & Glass Co**
1565 Ardco, Inc	1656 D & S Tempered Glass	1768 Arch Aluminum & Glass Co**
1574 Guardian Fabrication - ANSI	1657 D & S Tempered Glass	1769 Arch Aluminum & Glass Co**
1575 Guardian Fabrication - ANSI	1658 D & S Tempered Glass	1781 Sterling Plumbing Group
1576 Guardian Fabrication - ANSI	1659 D & S Tempered Glass	1782 All Team Glass & Mirror Ltd
1577 Guardian Fabrication - ANSI	1660 D & S Tempered Glass	1784 Perilstein Distributing Corp
1578 Milgard Tempering Inc	1661 D & S Tempered Glass	1785 Perilstein Distributing Corp
1586 Taylor Products, Inc.	1663 AFG Industries	1786 Perilstein Distributing Corp
1587 Taylor Products, Inc.	1664 AFG Industries	1787 Perilstein Distributing Corp
1588 Taylor Products, Inc.	1665 Guardian Industries - ANSI	1788 Perilstein Distributing Corp
1589 Taylor Products, Inc.	1668 Globe-Amerada	1789 Perilstein Distributing Corp
1590 Free State Glass Industries	1676 Contour Industries	1790 Perilstein Distributing Corp
1591 Free State Glass Industries	1677 Contour Industries	1791 Four Seasons Solar Products
1592 Free State Glass Industries	1678 Contour Industries	1792 Shaw Glass Co Inc
1593 Free State Glass Industries	1680 Contour Industries	1794 AFG Industries

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
1795 AFG Industries	1854 U S Precision Glass	1901 Efco Corp
1796 Hoffer's, Inc.	1855 Arch Tempered Glass - ANSI	1902 Efco Corp
1797 Hoffer's, Inc.	1856 Temperit AG	1903 Efco Corp
1798 Hoffer's, Inc.	1861 ACI Glass	1908 Coraglass Inc
1799 Northwest Aluminum Products	1862 Hoffer's, Inc.	1909 Coraglass Inc
1800 Northwest Aluminum Products	1863 Sterling Plumbing Group	1910 Coraglass Inc
1801 Northwest Aluminum Products	1864 Sovis S A	1911 Coraglass Inc
1802 Northwest Aluminum Products	1865 Guardian Industries - ANSI	1914 Architectural Safety Glass
1803 Guardian Industries - ANSI	1866 Guardian Inds Corp-Lewis**wn	1915 Mirror Factory Inc
1804 Cardinal TG - CPSC	1867 Guardian Inds Corp-Lewis**wn	1919 ACI Glass Products Inc
1805 Cardinal TG - CPSC	1868 Guardian Inds Corp-Lewis**wn	1920 Donnelly Corp
1806 Cardinal TG - CPSC	1869 Sterling Plumbing Group	1921 Cardinal CG
1807 Cardinal TG - CPSC	1870 Sunbelt Glass, Inc	1922 Cardinal CG
1808 North American Glass Inds Inc	1871 Shaw Glass Co Inc	1923 Cardinal CG
1809 North American Glass Inds Inc	1872 Canadian Insul-Glass Corp	1924 Cardinal CG
1813 Libbey-Owens-Ford Co	1873 Canadian Insul-Glass Corp	1925 AFG Industries
1814 Libbey-Owens-Ford Co	1874 Canadian Insul-Glass Corp	1929 Colonial Mirror & Glass Corp
1815 Libbey-Owens-Ford Co	1875 Canadian Insul-Glass Corp	1931 Gardner Mirror Corporation
1816 Libbey-Owens-Ford Co	1877 Donnelly Corp	1932 Gardner Mirror Corporation
1826 Guardian Industries - ANSI	1879 Laminated Glass Corp	1933 Gardner Mirror Corporation
1827 Cardinal IG - CPSC	1880 Laminated Glass Corp	1934 Gardner Mirror Corporation
1828 Cardinal IG - CPSC	1881 Laminated Glass Corp	1935 Gardner Mirror Corporation
1829 Cardinal IG - CPSC	1882 Guardian Industries - ANSI	1936 Gardner Mirror Corporation
1830 Cardinal IG - CPSC	1883 Viracon Inc	1937 Gardner Mirror Corporation
1831 Cardinal IG - CPSC	1884 Viracon Inc	1938 Sovis S A
1832 Cardinal IG - CPSC	1885 Guardian Walled Lake Fab**	1939 Shaw Glass Co Inc
1833 Cardinal IG - CPSC	1886 Guardian Inds Corp-Lewis**wn	1940 Romag Security Laminators Inc
1834 Cardinal IG - CPSC	1889 Commercial Insulating Glass Co	1941 Vegla Vereinigte Glaswerke
1835 Arch Tempered Glass - ANSI	1890 Commercial Insulating Glass Co	1942 Vegla Vereinigte Glaswerke
1841 Cardinal IG - CPSC	1891 Commercial Insulating Glass Co	1944 Flachglas AG
1842 Cardinal IG - CPSC	1892 Commercial Insulating Glass Co	1945 AFG Glass Inc
1843 Cardinal IG - CPSC	1894 Commercial Insulating Glass Co	1946 Guardian Inds Corp-Lewis**wn
1844 Cardinal IG - CPSC	1895 Arch Tempered Glass - ANSI	1947 Guardian Inds Corp-Lewis**wn
1845 Cardinal IG - CPSC	1897 Tempglass Western Inc	1949 Viracon Inc
1846 Cardinal IG - CPSC	1898 Tempglass Western Inc	1950 Viracon, Inc
1847 Colonial Mirror & Glass Corp	1899 Tempglass Western Inc	
1848 Colonial Mirror & Glass Corp	1900 Tempglass Western Inc	

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				
1642	3/16	(5.0)	TTG	U	1702	1/8	(3.0)	TTG	U
1643	1/4	(6.0)	TTG	U	1703	5/32	(4.0)	TTG	U
1644	3/8	(10.0)	TTG	U	1704	3/16	(5.0)	TTG	U
1645	1/2	(12.0)	TTG	U	1705	1/4	(6.0)	TTG	U
ACI GLASS PRODUCTS INC; DALLAS, TX					AFG GLASS INC; CONCORD, ONTARIO, CANADA				
				ANSI ONLY	1485	1/8	(3.0)	TTG	U
1107	3/8	(10.0)	TTG	U ✓	1486	5/32	(4.0)	TTG	U
1108	1/2	(12.0)	TTG	U ✓	1945	3/16	(5.0)	TTG	U
1225	3/4	(19.0)	TTG	U ✓	1489	1/4	(6.0)	TTG	U
1728	3/16	(4.8)	TPG(S)	U ✓	ALL TEAM GLASS & MIRROR LTD; WOODBRIDGE, ONTARIO, CANADA				
ACI GLASS PRODUCTS INC; DALLAS, TX					1754	5/32	(4.0)	TTG	U
1919	1/8	(3.0)	TTG	U	1755	3/16	(5.0)	TTG	U
400	3/16	(5.0)	TTG	U	1756	1/4	(6.0)	TTG	U
402	1/4	(6.0)	TTG	U	1757	3/8	(10.0)	TTG	U
ACI GLASS PRODUCTS; SANTA CLARA, CA					1758	1/2	(12.0)	TTG	U
1496	1/4	(6.0)	TTG	U	1782	3/4	(19.0)	TTG	U
1497	3/8	(10.0)	TTG	U	AMERICAN FLAT GLASS DIST; ALVARADO, TX				
1498	1/2	(12.0)	TTG	U	1708	1/8	(3.0)	TTG	U
1495	7/32	(5.6)	TPG(S)	U	1709	3/16	(5.0)	TTG	U
ACI GLASS PRODUCTS INC; SANTA FE SPRINGS, CA					1710	1/4	(6.0)	TTG	U
1157	3/16	(5.0)	TTG	U	1711	3/8	(10.0)	TTG	U
1535	1/4	(6.0)	TTG	U	1712	1/2	(12.0)	TTG	U
1179	3/8	(10.0)	TTG	U	1713	5/32	(4.0)	TPG(S)	U
640	1/2	(12.0)	TTG	U	1714	3/16	(4.8)	TPG(S)	U
1861	1/8	(3.0)	TPG(S)	U	AMERICAN FLAT GLASS DIST; FALL RIVER, MA				
AFG INDS INC; BRIDGEPORT, WV					1518	1/8	(3.0)	TTG	U
1436	1/8	(3.0)	TTG	U	1519	3/16	(5.0)	TTG	U
1624	5/32	(4.0)	TTG	U	1520	1/4	(6.0)	TTG	U
1795	3/16	(5.0)	TTG	U	1521	3/8	(10.0)	TTG	U
1794	1/4	(6.0)	TTG	U	1522	1/2	(12.0)	TTG	U
AFG INDS INC; VICTORVILLE, CA					1523	3/16	(4.8)	TPG(S)	U
1664	1/8	(3.2)	TTG	U	AMERICAN FLAT GLASS DIST; MARIETTA, GA				
1641	5/32	(4.0)	TTG	U	1405	1/8	(3.0)	TTG	U
1663	3/16	(4.8)	TTG	U	1230	3/16	(5.0)	TTG	U
1925	1/4	(6.0)	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	1867	5/32	(4.0)	TTG	U
90	3/8	(10.0)	TTG	U	ANGLOSS INDS INC; SAN FERNANDO, CA				
587	1/8	(3.2)	TPG(S)	U					ANSI ONLY
1139	3/16	(4.8)	TPG(S)	U	520	1/8	(3.0)	TTG	U ✓
AFG INDS INC; KINGSFORD, TN					999	3/16	(5.0)	TTG	U ✓
1390	1/8	(3.0)	TTG	U	1000	1/4	(6.0)	TTG	U ✓
949	5/32	(4.0)	TTG	U	ARCH ALUMINUM & GLASS CO; AUSTELL, GA				
28	3/16	(5.0)	TTG	U					ANSI ONLY
24	1/4	(6.0)	TTG	U	1765	1/8	(3.0)	TTG	U ✓
1143	3/16	(4.8)	TPG(S)	U	1766	3/16	(5.0)	TTG	U ✓
1414	1/8	(3.2)	TPG(M)	U	1767	1/4	(6.0)	TTG	U ✓
					1768	3/8	(10.0)	TTG	U ✓
					1769	1/2	(12.0)	TTG	U ✓
					A.F.G.D. ; RICHMOND, VA				
					1955	1/8	TTG	U	
					1956	3/16	TTG	U	4/95
					1957	1/4	TTG	U	
					1958	3/8	TTG	U	
					1959	1/2	TTG	U	
					1960	5/32	TPG(S)	U	
					1961	3/16	TPG(S)	U	

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
ARCH TEMPERED GLASS PRODUCTS; ORLANDO, FL					CARDINAL TG; TOMAH, WI (CON'T)				
				ANSI ONLY	1807	1/4	(6.0)	TTG	U
1526	1/8	(3.0)	TTG	U	COLONIAL MIRROR & GLASS CORP; BROOKLYN, NY				
1527	3/16	(5.0)	TTG	U	1847	1/4	(6.0)	TTG	U
1528	1/4	(6.0)	TTG	U	1848	3/8	(10.0)	TTG	U
1895	3/8	(10.0)	TTG	U	1929	1/2	(12.0)	TTG	U
1530	1/2	(12.0)	TTG	U	COMMERCIAL INSULATING GLASS CO; SARASOTA, FL				
1835	3/4	(19.0)	TTG	U	1889	1/8	(3.0)	TTG	31" by 76"
1531	1/8	(3.0)	TPG(S)	U	1890	3/16	(5.0)	TTG	31" by 76"
1682	5/32	(4.0)	TPG(S)	U	1891	1/4	(6.0)	TTG	31" by 76"
1562	3/16	(4.8)	TPG(S)	U	1892	1/8	(3.0)	TPG(S)	31" by 76"
1855	9/32	(7.0)	LTG(L) (.030)	U	1894	3/16	(4.8)	TPG(S)	31" by 76"
ARCHITECTURAL SAFETY GLASS; FT. PIERCE, FL					CONTOUR INDUSTRIES INC; SURGOINSVILLE, TN				
1914	1/4	(6.0)	LTG(L)	U	1680	1/8	(3.0)	TTG	18" by 76"
ARDCO INC; CHICAGO, IL					1678	3/16	(5.0)	TTG	18" by 76"
1041	1/8	(3.0)	TTG	U	1677	1/4	(6.0)	TTG	18" by 76"
1042	3/16	(5.0)	TTG	U	1676	1/8	(3.0)	TPG(S)	18" by 60"
1563	5/32	(4.0)	TBG	U	CORAGLASS INC; REFORM, AL				
1564	3/16	(5.0)	TBG	U	1908	1/8	(3.0)	TTG	U
1565	1/4	(6.0)	TBG	U	1909	5/32	(4.0)	TTG	U
* 1752	3/16	(4.0)	TPG(S)	U	1910	3/16	(5.0)	TTG	U
* 1753	5/32	(4.0)	TPG(S)	U	1911	1/4	(6.0)	TTG	U
CANADIAN INSUL-GLASS CORP; ONTARIO, CANADA					D & S TEMPERED GLASS; DALLAS, TX				
1872	1/8	(3.0)	TTG	U	1653	1/8	(3.0)	TTG	U
1873	5/32	(4.0)	TTG	U	1654	5/32	(4.0)	TTG	U
1874	3/16	(5.0)	TTG	U	1655	3/16	(5.0)	TTG	U
1875	1/4	(6.0)	TTG	U	1656	1/4	(6.0)	TTG	U
CARDINAL CG; BUFORD, GA					1657	3/8	(10.0)	TTG	U
1921	1/8	(3.0)	TTG	U	1658	1/2	(12.0)	TTG	U
1922	5/32	(4.0)	TTG	U	1659	1/8	(3.0)	TPG(S)	U
1923	3/16	(5.0)	TTG	U	1660	5/32	(4.0)	TPG(S)	U
1924	1/4	(6.0)	TTG	U	1661	3/16	(4.8)	TPG(S)	U
CARDINAL IG; GREENFIELD, IA					1965	3/4	(19.0)	TTG	U
				CPSC ONLY	DONNELLY CORP; HOLLAND, MI				
1827	1/8	(3.0)	TTG	U	1877	1/8	(3.0)	TTG	26" by 58"
1828	5/32	(4.0)	TTG	U	1920	5/32	(4.0)	TTG	24" by 60"
1829	3/16	(5.0)	TTG	U	1687	3/16	(4.8)	TTG	30" by 76"
1830	1/4	(6.0)	TTG	U	1688	1/4	(6.0)	TTG	30" by 76"
1841	1/8	(3.0)	TPG(S)	U	DOWNEY GLASS CO; LOS ANGELES, CA				
1842	5/32	(4.0)	TPG(S)	U	1608	1/8	(3.0)	TTG	U
1843	3/16	(4.8)	TPG(S)	U	1609	5/32	(4.0)	TTG	U
CARDINAL IG; SPRING GREEN, WI					630	3/16	(5.0)	TTG	U
				CPSC ONLY	514	1/4	(6.0)	TTG	U
1831	1/8	(3.0)	TTG	U	515	3/8	(10.0)	TTG	U
1832	5/32	(4.0)	TTG	U	516	1/2	(12.0)	TTG	U
1833	3/16	(5.0)	TTG	U	935	3/16	(4.8)	TPG(S)	U
1834	1/4	(6.0)	TTG	U	678	7/32	(5.6)	TPG(S)	U
1844	1/8	(3.0)	TPG(S)	34" by 60"	1611	1/8	(3.2)	TPG(M)	U
1845	5/32	(4.0)	TPG(S)	U	EFCO CORP; MONETT, MO				
1846	3/16	(4.8)	TPG(S)	U	1901	3/16	(5.0)	TTG	U
CARDINAL TG; TOMAH, WI					1902	1/4	(6.0)	TTG	U
				CPSC ONLY	1903	3/16	(4.8)	TPG(S)	OUT 6/95
1804	1/8	(3.0)	TTG	U	FLACHGLAS AG; GIESENKIRCHEN, GERMANY				
1805	5/32	(4.0)	TTG	U	1944	1/4	(6.0)	LTG(B) (.030)	OUT 6/95
1806	3/16	(5.0)	TTG	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
FLEX-O-GLASS INC; DIXON, IL					GUARDIAN FABRICATION INC; ROGERS, AR (CON'T)				
118	0.080	-inch through 0.125	-inch smooth extruded acrylic	ANSI U	1616	5/32	(4.0)	TTG	U
FLORAL GLASS & MIRROR INC; HAUPPAUGE, NY					1356	3/16	(5.0)	TTG	U
1546	1/8	(3.0)	TTG	U	1357	1/4	(6.0)	TTG	U
1547	3/16	(5.0)	TTG	U	1358	1/8	(3.2)	TPG(S)	U
1548	1/4	(6.0)	TTG	U	1359	5/32	(4.0)	TPG(S)	U
1549	3/8	(10.0)	TTG	U	1394	3/16	(4.8)	TPG(D)	U
1550	1/2	(12.0)	TTG	U	GUARDIAN FABRICATION INC; WEBSTER, MA				
1551	3/4	(19.0)	TTG	U	ANSI ONLY				
1552	1/8	(3.2)	TPG(S)	U	300	1/8	(3.0)	TTG	U
1553	7/32	(5.6)	TPG(S)	U	1607	5/32	(4.0)	TTG	U
FOUR SEASONS SOLAR PRODUCTS; HOLBROOK, NY					1216	3/16	(5.0)	TTG	U
1791	1/8	(3.0)	TTG	U	662	1/4	(6.0)	TTG	U
FREE STATE GLASS INDS; WARRENTON, VA					471	3/8	(10.0)	TTG	U
1590	1/8	(3.0)	TTG	U	1235	1/2	(12.0)	TTG	U
1591	3/16	(5.0)	TTG	U	GUARDIAN INDUSTRIES CORP; CARLETON, MI				
1592	1/4	(6.0)	TTG	U	ANSI ONLY				
1593	3/8	(10.0)	TTG	U	933	1/8	(3.0)	TTG	U
1594	1/2	(12.0)	TTG	U	934	5/32	(4.0)	TTG	U
GARDNER MIRROR CORPORATION; NORTH WILKESBORO, NC					631	3/16	(5.0)	TTG	U
1931	1/8	(3.0)	TTG	U	131	1/4	(6.0)	TTG	U
1932	5/32	(4.0)	TTG	U	GUARDIAN INDS CORP; CORSICANA, TX				
1933	3/16	(5.0)	TTG	U	ANSI ONLY				
1934	1/4	(6.0)	TTG	U	1248	1/8	(3.0)	TTG	U
1935	3/8	(10.0)	TTG	U	1249	5/32	(4.0)	TTG	U
1936	1/2	(12.0)	TTG	U	1250	3/16	(5.0)	TTG	U
1937	3/4	(19.0)	TTG	U	1251	1/4	(6.0)	TTG	U
GEMTRON CORP; SWEETWATER, TN					1826	5/16	(8.0)	TTG	U
1334	1/8	(3.0)	TTG	U	1253	3/8	(10.0)	TTG	U
1332	5/32	(4.0)	TTG	U	1803	1/2	(12.0)	TTG	U
1201	3/16	(5.0)	TTG	U	1463	1/8	(3.2)	TPG(S)	U
1477	1/4	(6.0)	TTG	U	1737	5/32	(4.0)	TPG(S)	U
1422	1/8	(3.2)	TPG(S)	U	1464	7/32	(5.6)	TPG(S)	U
1424	5/32	(4.0)	TPG(S)	U	GUARDIAN INDS CORP; FORT LAUDERDALE, FL				
GLASS FACTORY INC; RONKONKOMA, NY					ANSI ONLY				
1458	1/8	(3.0)	TTG	U	1161	1/8	(3.0)	TTG	U
1459	3/16	(5.0)	TTG	U	633	3/16	(5.0)	TTG	U
1460	1/4	(6.0)	TTG	U	40	1/4	(6.0)	TTG	U
1461	1/2	(12.0)	TTG	U	1665	1/8	(3.2)	TPG(S)	30" by 70"
GLOBE-AMERADA GLASS CO (ASSURANCE); SELMA, AL					1318	3/16	(4.8)	TPG(S)	U
1668	1/4	(6.0)	LTG(B)	U	GUARDIAN INDS CORP; KINGSBURG, CA				
GUARDIAN FABRICATION INC; MILLBURY, OH					ANSI ONLY				
1574	1/8	(3.0)	TTG	ANSI ONLY U	968	1/8	(3.0)	TTG	U
1575	5/32	(4.0)	TTG	U	969	5/32	(4.0)	TTG	U
1576	3/16	(5.0)	TTG	U	970	3/16	(5.0)	TTG	U
1577	1/4	(6.0)	TTG	U	971	1/4	(6.0)	TTG	U
GUARDIAN FABRICATION INC; ROGERS, AR					1304	3/16	(4.8)	TPG(S)	U
1355	1/8	(3.0)	TTG	ANSI ONLY U	1882	1/4	(6.4)	TPG(S)	U
					1303	1/8	(3.2)	TPG(M)	U
					1301	5/32	(4.0)	TPG(M)	U
					GUARDIAN, CANADA				
					1966	5/32	(4.0)	OEG	U

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A-5

ANSI ONLY

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SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
GUARDIAN INDS CORP; RICHBURG, SC					INTERPANE SPECTRUM INC; CLINTON, NC (CON'T)				
				ANSI ONLY	1076	3/8	(10.0)	TTG	U
1630	1/8	(3.0)	TTG	U	1077	1/2	(12.0)	TTG	U
1631	5/32	(4.0)	TTG	U	LAMINATED GLASS CORP; TELFORD, PA				
1632	3/16	(5.0)	TTG	U	1879	1/4	(6.0)	TTG	U
1633	1/4	(6.0)	TTG	U	1880	3/8	(10.0)	TTG	U
1634	3/8	(10.0)	TTG	U	1881	1/2	(12.0)	TTG	U
1683	1/8	(3.2)	TPG(S)	U	1652	1/4	(6.0)	LTG(B)(.030)	U
1635	5/32	(4.0)	TPG(S)	U	LIBBEY-OWENS-FORD CO; OTTAWA, IL				
1865	3/16	(4.8)	TPG(S)	U	1813	1/8	(3.0)	TTG	U
GUARDIAN INDS CORP; UPPER SANDUSKY, OH					1814	5/32	(4.0)	TTG	U
				ANSI ONLY	1815	3/16	(5.0)	TTG	U
458	7/32	(5.5)	LTG(B)(.030)	U	1816	1/4	(6.0)	TTG	U
487	1/4	(6.0)	LTG(B)(.030)	U	MARVIN WINDOWS; WARROAD, MN				
GUARDIAN INDS CORP; TILLSONBURG, ONTARIO, CANADA					1689	1/8	(3.0)	TTG	U
				ANSI ONLY	1723	5/32	(4.0)	TTG	U
1462	1/8	(3.0)	TTG	U	1690	3/16	(5.0)	TTG	U
GUARDIAN INDS CORP-LEWISTOWN; LEWISTOWN, PA					1691	1/4	(6.0)	TTG	U
				ANSI ONLY	1724	1/8	(3.0)	TPG(S)	U
1627	1/8	(3.0)	TTG	U	1701	3/16	(4.8)	TPG(S)	U
1866	5/32	(4.0)	TTG	U	MILGARD TEMPERING INC; TACOMA, WA				
1628	3/16	(5.0)	TTG	U	1578	1/4	(6.0)	TTG	U
1629	1/4	(6.0)	TTG	U	MIRROR FACTORY INC; PLYMOUTH, MN				
1867	3/8	(10.0)	TTG	U	1915	7/32	(5.6)	LTG(B)(.030)	U
1868	1/2	(12.0)	TTG	U	NASHVILLE TEMPERED GLASS CORP; NASHVILLE, TN				
1886	5/32	(4.0)	LTG(B)(.030)	U	1416	1/8	(3.0)	TTG	U
1282	7/32	(5.5)	LTG(B)(.015)	U	1467	3/16	(5.0)	TTG	U
1946	1/4	(6.0)	LTG(B)	U	1417	1/4	(6.0)	TTG	U
1947	3/8	(10.0)	LTG(B)	U	NORTH AMERICAN GLASS INDS INC.; BENSENVILLE, IL				
1316	1/2	(12.0)	LTG(B)(.015)	U	1381	3/16	(5.0)	TTG	U
GUARDIAN WALLED LAKE FABRICATION; WALLED LAKE, MI					1382	1/4	(6.0)	TTG	U
				ANSI ONLY	1383	3/8	(10.0)	TTG	U
1885	1/8	(3.0)	TTG	20" by 30"	1384	1/2	(12.0)	TTG	U
HAMILTON GLASS PRODUCTS INC; VINCENNES, IN					1808	3/16	(5.0)	TBG	U
54	1/8	(3.0)	TTG	U	1809	1/4	(6.0)	TBG	U
1385	5/32	(4.0)	TTG	U	1536	3/8	(10.0)	TBG	U
1200	3/16	(5.0)	TTG	U	1533	1/2	(12.0)	TBG	U
57	1/4	(6.0)	TTG	U	NORTH AMERICAN GLASS INDS INC; BENTON HARBOR				
1386	5/32	(4.0)	TPG(S)	U	1441	7/32	(5.6)	LTG(L)	U
1387	3/16	(4.8)	TPG(S)	U	1699	1/2	(12.0)	LTG(L)	U
HOFFER'S INC; SCHOFIELD, WI					NORTHWEST ALUMINUM PRODUCTS INC; YAKIMA, WA				
1595	1/8	(3.0)	TTG	U	1799	1/8	(3.0)	TTG	U
1862	5/32	(4.0)	TTG	U	1800	3/16	(5.0)	TTG	U
1596	3/16	(5.0)	TTG	U	1801	1/4	(6.0)	TTG	U
1597	1/4	(6.0)	TTG	U	1802	1/8	(3.0)	TPG(S)	U
1796	3/8	(10.0)	TTG	U	NORTHWESTERN INDS INC; SEATTLE, WA				
1797	1/2	(12.0)	TTG	U	1638	3/16	(5.0)	TTG	U
1798	3/16	(4.8)	TPG(S)	U	1639	1/4	(6.0)	TTG	U
GLASS CO.					1640	3/16	(5.0)	LTG(B)(.030)	U
INTERPANE SPECTRUM INC; CLINTON, NC					PERILSTEIN DISTRIBUTING CORP; CHESWICK, PA				
1073	3/16	(5.0)	TTG	U	1784	1/8	(3.0)	TTG	U
1074	1/4	(6.0)	TTG	U					
1075	5/16	(8.0)	TTG	U					

DEPENDENT GLASS, GLASGOW, SCOTLAND

1976 3/16" TTG U
1977 1/4" TTG U

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SAFTI
Div. of Okefen
1953
1954

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SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
PERILSTEIN DISTRIBUTING CORP; CHESWICK, PA (CON'T)					SUNBELT GLASS INC; TULSA, OK				
1785	3/16	(5.0)	TTG	U	1453	1/8	(3.0)	TTG	U
1786	1/4	(6.0)	TTG	U	1870	5/32	(4.0)	TTG	U
1787	3/8	(10.0)	TTG	U	1454	3/16	(5.0)	TTG	U
1788	1/2	(12.0)	TTG	U	1455	1/4	(6.0)	TTG	U
1789	1/8	(3.0)	TPG(S)	U	1456	3/8	(10.0)	TTG	U
1790	3/16	(4.8)	TPG(S)	U	1457	1/2	(12.0)	TTG	U
PPG INDS INC; CARLISLE, PA					1617	5/32	(4.0)	TPG(S)	U
382	1/4	(6.0)	TTG	U	1618	3/16	(4.8)	TPG(S)	U
PPG INDS INC; CARLISLE, PA					SWIFT GLASS CO INC; ELMIRA HEIGHTS, NY				
250	1/8	(3.0)	TTG	U	1555	1/8	(3.0)	TTG	U
675	5/32	(4.0)	TTG	U	1556	3/16	(5.0)	TTG	U
249	3/16	(5.0)	TTG	U	1557	1/4	(6.0)	TTG	U
PPG INDS INC; FRESNO, CA					1558	3/8	(10.0)	TTG	U
295	1/8	(3.0)	TTG	U	1559	1/2	(12.0)	TTG	U
676	5/32	(4.0)	TTG	U	TAYLOR PRODUCTS INC; PAYNE, OH				
64	3/16	(5.0)	TTG	U	1586	1/8	(3.2)	TTG	U
PPG INDS INC; BURLINGTON, IA					1587	5/32	(4.0)	TTG	U
1605	1/8	(3.0)	TTG	U	1588	3/16	(5.0)	TTG	U
1606	5/32	(4.0)	TTG	U	1589	1/4	(6.0)	TTG	U
1603	3/16	(5.0)	TTG	U	1598	3/8	(10.0)	TTG	U
1604	1/4	(6.0)	TTG	U	TEMPERED GLASS INC; AUSTELL, GA				
PPG INDS INC; WICHITA FALLS, TX					862	3/16	(5.0)	TTG	U
1113	1/4	(6.0)	TTG	U	863	1/4	(6.0)	TTG	U
PPG INDS INC; WICHITA FALLS, TX					865	3/8	(10.0)	TTG	U
1110	1/8	(3.0)	TTG	U	866	1/2	(12.0)	TTG	U
1111	5/32	(4.0)	TTG	U	TEMPERIT AG / VETROTECH AG; SWITZERLAND				
1112	3/16	(5.0)	TTG	U	1856	1/4	(6.0)	TTG	U
ROMAG SECURITY LAMINATORS INC; CONSETT					TEMPGLASS INC; PERRYSBURG, OH				
1940	1/8	(3.0)	OCG(H)	U	1039	1/8	(3.0)	TTG	U
SHAW GLASS CO INC; SOUTH EASTON, MA					592	3/16	(5.0)	TTG	U
1792	5/32	(4.0)	TTG	U	1420	1/4	(6.0)	TTG	U
1871	3/16	(5.0)	TTG	U	594	3/8	(10.0)	TTG	U
1035	1/4	(6.0)	TTG	U	595	1/2	(12.0)	TTG	U
1036	3/8	(10.0)	TTG	U	TEMPGLASS MIAMI; MIAMI, FL				
1037	1/2	(12.0)	TTG	U	1744	3/16	(5.0)	TTG	U
1939	3/16	(4.8)	TPG(S)	U	1745	1/4	(6.0)	TTG	U
SOVIS S A; FRANCE					1746	3/8	(10.0)	TTG	U
1938	3/16	(5.0)	TBG	U	1747	1/2	(12.0)	TTG	U
1864	1/4	(6.0)	TBG	U	1749	5/32	(4.0)	TTG	U
STERLING PLUMBING GROUP; MALVERN, AR					TEMPGLASS SOUTHERN INC; GRAND PRAIRIE, TX				
1759	1/8	(3.0)	TTG	U	1219	3/16	(5.0)	TTG	U
1760	5/32	(4.0)	TTG	U	1044	1/4	(6.0)	TTG	U
1761	3/16	(5.0)	TTG	U	1045	3/8	(10.0)	TTG	U
1869	3/16	(5.0)	TTG	U	1046	1/2	(12.0)	TTG	U
1762	1/4	(6.0)	TTG	U	1649	1/2	(12.0)	LTG(B) (.031)	U
1781	1/8	(3.0)	TPG(S)	U	TEMPGLASS WESTERN INC; FREMONT, CA				
1863	3/16	(4.8)	TPG(S)	U	1897	3/16	(5.0)	TTG	U
TRACO (THREE RIVERS ALUM); WARRENDALE, PA					1898	1/4	(6.0)	TTG	U
1308	1/8	(3.0)	TTG	U	1899	3/8	(10.0)	TTG	U
1310	3/16	(5.0)	TTG	U	1900	1/2	(12.0)	TTG	U

*PPG - Put Back in CPD

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SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
TRACO (THREE RIVERS ALUM); WARRENDALE, PA (CON'T)				
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 ₁₀
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
VEGLA VEREINIGTE GLASWERKE GMBH; AACHEN, GERMANY				
1941	3/16	(5.0)	TTG	U
1942	1/4	(6.0)	TTG	U
VIRACON INC; OWATONNA, MN				
1883	1/8	(3.0)	OCG(H)(.037)	U
1949	3/16	(5.0)	OCG(H)(.030)	U
1884	1/4	(6.0)	OCG(H)(.037)	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
1950	1/4	(6.0)	SPS LSP	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

CERTIFIED PRODUCTS KEY

TTG = TEMPERED TRANSPARENT GLASS

TPG = TEMPERED PATTERNED GLASS

TBG = TEMPERED BENT GLASS

LTG = LAMINATED TRANSPARENT GLASS

LPG = LAMINATED PATTERNED GLASS

LSP = LAMINATED SPECIALTY PRODUCTS

OCG = ORGANIC COATED GLASS

(S) = SHALLOW PATTERN

(M) = MEDIUM PATTERN

(D) = DEEP PATTERN

(B) = POLY VINYL BUTYRAL
INTERLAYER MATERIAL(L) = LIQUID RESIN
INTERLAYER MATERIAL(P) = POLYETHYLENE TERPHTHALATE
INTERLAYER MATERIAL(F) = FLOURINATED ETHYLENE PROPYLENE
INTERLAYER MATERIAL

(H) = HYBRID

U = UNLIMITED SIZE

SPS = Safety Plastic Sheet

DO NOT PUT IN

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WESTSHORE GLASS; TAMPA, FL

A-5

1970 1/8 TTG U

1971 3/32 TTG U

1972 5/16 TTG U

1973 1/4 TTG U

1974 1/2 TTG U

	<u>SGCC NO.</u>	<u>LAB ID</u>	<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS			
1/8 inch tempered transparent glass			
ACI Glass Products Inc; Dallas, TX	1919	900	U
AFG Industries; Bridgeport, WV	1436	400	U
AFG Industries; Greenland, TN	598	300	U
AFG Industries; Kingsport, TN	1390	300	U
AFG Industries Inc; Spring Hill, KS	1702	500	U
AFG Glass Inc; Concord, Ontario, Canada	1485	400	U
American Flat Glass Dist; Alvarado, TX	1708	900	U
American Flat Glass Distrib; Fall River, MA	1518	400	U
American Flat Glass Distrib; Marietta, GA	1405	300	U
Anglass Industries; San Fernando, CA	520	ANSI ONLY 250	U
Arch Aluminum & Glass Co; Austell, GA	1765	ANSI ONLY 300	U
Arch Tempered Glass; Orlando, FL	1526	ANSI ONLY 600	U
Ardco, Inc; Chicago, IL	1041	400	U
Canadian Insul-Glass Corp; Ontario, CANADA	1872	400	U
Cardinal CG; Buford, GA	1921	300	U
Cardinal IG; Greenfield, IA	1827	CPSC ONLY 500	U
Cardinal IG; Spring Green, WI	1831	CPSC ONLY 500	U
Cardinal TG; Tomah, WI	1804	CPSC ONLY 500	U
Commercial Insulating Glass Co; Sarasota, FL	1889	600	31" by 76"
Contour Industries; Surgoinsville, TN	1680	300	18" by 76"
Coraglass Inc; Reform, AL	1908	300	U
D & S Tempered Glass; Dallas, TX	1653	900	U
Donnelly Corp; Holland, MI	1877	400	26" by 58"
Downey Glass Co; Los Angeles, CA	1608	250	U
Floral Glass & Mirror; Hauppauge, NY	1546	400	U
Four Seasons Solar Products; Holbrook, NY	1791	275	U
Free State Glass Industries; Warrenton, VA	1590	100	U
Gardner Mirror Corporation; North Wilkesboro, NC	1931	300	U
Gemtron Corp; Sweetwater, TN	1334	300	U
The Glass Factory; Ronkonkoma, NY	1458	400	U
Guardian Fabrication; Millbury, OH	1574	ANSI ONLY 200	U
Guardian Fabrication; Rogers, AR	1355	ANSI ONLY 900	U
Guardian Fabrication; Webster, MA	300	ANSI ONLY 400	U
Guardian Industries; Carleton, MI	933	ANSI ONLY 200	U
Guardian Industries; Corsicana, TX	1248	ANSI ONLY 900	U
Guardian Industries; Fort Lauderdale, FL	1161	ANSI ONLY 600	U
Guardian Industries; Kingsburg, CA	968	ANSI ONLY 900	U
Guardian Industries; Richburg, SC	1630	ANSI ONLY 300	U
Guardian Industries; Tillsonburg, Ontario, Canada	1462	ANSI ONLY 400	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1627	ANSI ONLY 400	U
Guardian Walled Lake Fab; Walled Lake, MI	1885	ANSI ONLY 200	20" by 30"
Hamilton Glass Products; Vincennes, IN	54	200	U
Hoffer's, Inc.; Schofield, WI	1595	75	U
Libbey-Owens-Ford Co; Ottawa, IL	1813	500	U
Marvin Windows; Warroad, MN	1689	400	U
Nashville Tempered Glass; Nashville, TN	1416	200	U
Northwest Aluminum Products; Yakima, WA	1799	750	U
Perilstein Distributing Corp; Cheswick, PA	1784	400	U
PPG Industries; Carlisle, PA	250	400	U
PPG Industries; Fresno, CA	295	250	U
PPG Industries; Burlington, IA	1605	500	U
PPG Industries; Wichita Falls, TX	1110	900	U
Sterling Plumbing Group; Malvern, AR	1759	900	U
Sunbelt Glass, Inc; Tulsa, OK	1453	900	U
Swift Glass Co., Inc.; Elmira Heights, NY	1555	400	U
Tempglass, Inc; Perrysburg, OH	1039	200	U
TRACO (Three Rivers Alum.); Warrendale, PA	1308	100	U
U S Precision Glass; Elgin, IL	1369	200	U
U S Precision Glass; Jefferson, TX	1281	900	U
U S Precision Glass; Lewisburg, OH	1050	200	U
Viracon, Inc; Owatonna, MN	1476	75	U
AFG Industries; Victorville, CA	1664	250	U

	<u>SGCC NO.</u>	<u>LAB ID</u>	<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS - continued			
1/8 inch tempered transparent glass - continued			
Taylor Products, Inc.; Payne, OH	1586	400	U
5/32 inch tempered transparent glass			
AFG Industries; Bridgeport, WV	1624	400	U
AFG Industries; Victorville, CA	1641	250	U
AFG Industries; Greenland, TN	955	300	U
AFG Industries; Kingsport, TN	949	300	U
AFG Industries Inc; Spring Hill, KS	1703	500	U
AFG Glass Inc; Concord, Ontario, Canada	1486	400	U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1754	400	U
Canadian Insul-Glass Corp; Ontario, CANADA	1873	400	U
Cardinal CG; Buford, GA	1922	300	U
Cardinal IG; Greenfield, IA	1828	CPSC ONLY 500	U
Cardinal IG; Spring Green, WI	1832	CPSC ONLY 500	U
Cardinal TG; Tomah, WI	1805	CPSC ONLY 500	U
Coraglass Inc; Reform, AL	1909	300	U
D & S Tempered Glass; Dallas, TX	1654	900	U
Donnelly Corp; Holland, MI	1920	400	24" by 60"
Downey Glass Co; Los Angeles, CA	1609	250	U
Gardner Mirror Corporation; North Wilkesboro, NC	1932	300	U
Gemtron Corp; Sweetwater, TN	1332	300	U
Guardian Fabrication; Millbury, OH	1575	ANSI ONLY 200	U
Guardian Fabrication; Rogers, AR	1616	ANSI ONLY 900	U
Guardian Fabrication; Webster, MA	1607	ANSI ONLY 400	U
Guardian Industries; Carleton, MI	934	ANSI ONLY 200	U
Guardian Industries; Corsicana, TX	1249	ANSI ONLY 900	U
Guardian Industries; Kingsburg, CA	969	ANSI ONLY 900	U
Guardian Industries; Richburg, SC	1631	ANSI ONLY 300	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1866	ANSI ONLY 400	U
Hamilton Glass Products; Vincennes, IN	1385	200	U
Hoffer's, Inc.; Schofield, WI	1862	75	U
Libbey-Owens-Ford Co; Ottawa, IL	1814	500	U
Marvin Windows; Warroad, MN	1723	400	U
PPG Industries; Carlisle, PA	675	400	U
PPG Industries; Fresno, CA	676	250	U
PPG Industries; Burlington, IA	1606	500	U
PPG Industries; Wichita Falls, TX	1111	900	U
Shaw Glass Co Inc; South Easton, MA	1792	400	U
Sterling Plumbing Group; Malvern, AR	1760	900	U
Sunbelt Glass, Inc; Tulsa, OK	1870	900	U
Taylor Products, Inc.; Payne, OH	1587	400	U
U S Precision Glass; Elgin, IL	1370	200	U
U S Precision Glass; Jefferson, TX	1715	900	U
U S Precision Glass; Lewisburg, OH	1452	200	U
3/16 inch tempered transparent glass			
AFG Industries; Victorville, CA	1663	250	U
Donnelly Corp; Holland, MI	1687	400	30" by 76"
ACI Glass; Greensboro, NC	1642	300	U
ACI Glass Products Inc; Dallas, TX	400	900	U
ACI Glass; Santa Fe Springs, CA	1157	250	U
AFG Industries; Bridgeport, WV	1795	400	U
AFG Industries; Greenland, TN	220	300	U
AFG Industries; Kingsport, TN	28	300	U
AFG Industries Inc; Spring Hill, KS	1704	500	U
AFG Glass Inc; Concord, Ontario, Canada	1945	400	U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1755	400	U
American Flat Glass Dist; Alvarado, TX	1709	900	U
American Flat Glass Distrib; Fall River, MA	1519	400	U
American Flat Glass Distrib; Marietta, GA	1230	300	U
Anglass Industries; San Fernando, CA	999	ANSI ONLY 250	U
Arch Aluminum & Glass Co; Austell, GA	1766	ANSI ONLY 300	U

	<u>SGCC NO.</u>		<u>LAB ID</u>	<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS - continued				
3/16 inch tempered transparent glass - continued				
Arch Tempered Glass; Orlando, FL	1527	ANSI ONLY	600	U
Ardco, Inc; Chicago, IL	1042		400	U
Canadian Insul-Glass Corp; Ontario, CANADA	1874		400	U
Cardinal CG; Buford, GA	1923		300	U
Cardinal IG; Greenfield, IA	1829	CPSC ONLY	500	U
Cardinal IG; Spring Green, WI	1833	CPSC ONLY	500	U
Cardinal TG; Tomah, WI	1806	CPSC ONLY	500	U
Commercial Insulating Glass Co; Sarasota, FL	1890		600	31" by 76"
Contour Industries; Surgoinsville, TN	1678		300	18" by 76"
Coraglass Inc; Reform, AL	1910		300	U
D & S Tempered Glass; Dallas, TX	1655		900	U
Downey Glass Co; Los Angeles, CA	630		250	U
Efco Corp; Monett, MO	1901		100	U
Floral Glass & Mirror; Hauppauge, NY	1547		400	U
Free State Glass Industries; Warrenton, VA	1591		100	U
Gardner Mirror Corporation; North Wilkesboro, NC	1933		300	U
Gemtron Corp; Sweetwater, TN	1201		300	U
The Glass Factory; Ronkonkoma, NY	1459		400	U
Guardian Fabrication; Millbury, OH	1576	ANSI ONLY	200	U
Guardian Fabrication; Rogers, AR	1356	ANSI ONLY	900	U
Guardian Fabrication; Webster, MA	1216	ANSI ONLY	400	U
Guardian Industries; Carleton, MI	631	ANSI ONLY	200	U
Guardian Industries; Corsicana, TX	1250	ANSI ONLY	900	U
Guardian Industries; Fort Lauderdale, FL	633	ANSI ONLY	600	U
Guardian Industries; Kingsburg, CA	970	ANSI ONLY	900	U
Guardian Industries; Richburg, SC	1632	ANSI ONLY	300	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1628	ANSI ONLY	400	U
Hamilton Glass Products; Vincennes, IN	1200		200	U
Hoffer's, Inc.; Schofield, WI	1596		75	U
Interpane Spectrum Inc; Clinton, NC	1073		600	U
Libbey-Owens-Ford Co; Ottawa, IL	1815		500	U
Marvin Windows; Warroad, MN	1690		400	U
Nashville Tempered Glass; Nashville, TN	1467		200	U
North American Glass Inds Inc; Bensenville, IL	1381		200	U
Northwest Aluminum Products; Yakima, WA	1800		750	U
Northwestern Industries; Seattle, WA	1638		750	U
Perilstein Distributing Corp; Cheswick, PA	1785		400	U
PPG Industries; Carlisle, PA	249		400	U
PPG Industries; Fresno, CA	64		250	U
PPG Industries; Burlington, IA	1603		500	U
PPG Industries; Wichita Falls, TX	1112		900	U
Shaw Glass Co Inc; South Easton, MA	1871		400	U
Sterling Plumbing Group; Malvern, AR	1761		600	U
Sterling Plumbing Group; Malvern, AR	1869		900	U
Sunbelt Glass, Inc; Tulsa, OK	1454		900	U
Swift Glass Co., Inc.; Elmira Heights, NY	1556		400	U
Taylor Products, Inc.; Payne, OH	1588		400	U
Tempered Glass, Inc; Austell, GA	862		300	U
Tempglass, Inc; Perrysburg, OH	592		200	U
Tempglass Miami; Miami, FL	1744		600	U
Tempglass Southern, Inc; Grand Prairie, TX	1219		900	U
Tempglass Western Inc; Fremont, CA	1897		950	U
TRACO (Three Rivers Alum.); Warrendale, PA	1310		100	U
U S Precision Glass; Elgin, IL	1371		200	U
U S Precision Glass; Jefferson, TX	1286		900	U
U S Precision Glass; Lewisburg, OH	185		200	U
Vegla Vereinigte Glaswerke; Aachen, GERMANY	1941		400	U
Viracon, Inc; Owatonna, MN	1403		75	U
Virginia Glass Products; Martinsville, VA	12		600	U

1/4 inch tempered transparent glass

ACI Glass; Greensboro, NC	1643		300	U
ACI Glass Products Inc; Dallas, TX	402		900	U

TEMPERED TRANSPARENT GLASS - continued

1/4 inch tempered transparent glass - continued

	<u>SGCC NO.</u>	<u>LAB ID</u>	<u>MAX. SIZE CERTIFIED</u>
ACI Glass Products; Santa Clara, CA	1496	250	U
ACI Glass; Santa Fe Springs, CA	1535	250	U
AFG Industries; Bridgeport, WV	1794	400	U
AFG Industries; Victorville, CA	1925	250	U
AFG Industries; Greenland, TN	89	300	U
AFG Industries; Kingsport, TN	24	300	U
AFG Industries Inc; Spring Hill, KS	1705	500	U
AFG Glass Inc; Concord, Ontario, Canada	1489	400	U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1756	400	U
American Flat Glass Dist; Alvarado, TX	1710	900	U
American Flat Glass Distrib; Fall River, MA	1520	400	U
American Flat Glass Distrib; Marietta, GA	1231	300	U
Anglass Industries; San Fernando, CA	1000	ANSI ONLY 250	U
Arch Aluminum & Glass Co; Austell, GA	1767	ANSI ONLY 300	U
Arch Tempered Glass; Orlando, FL	1528	ANSI ONLY 600	U
Canadian Insul-Glass Corp; Ontario, CANADA	1875	400	U
Cardinal CG; Buford, GA	1924	300	U
Cardinal IG; Greenfield, IA	1830	CPSC ONLY 500	U
Cardinal IG; Spring Green, WI	1834	CPSC ONLY 500	U
Cardinal TG; Tomah, WI	1807	CPSC ONLY 500	U
Colonial Mirror & Glass Corp; Brooklyn, NY	1847	400	U
Commercial Insulating Glass Co; Sarasota, FL	1891	600	31" by 76"
Contour Industries; Surgoinsville, TN	1677	300	18" by 76"
Coraglass Inc; Reform, AL	1911	300	U
D & S Tempered Glass; Dallas, TX	1656	900	U
Donnelly Corp; Holland, MI	1688	400	30" by 76"
Downey Glass Co; Los Angeles, CA	514	250	U
Efco Corp; Monett, MO	1902	100	U
Floral Glass & Mirror; Hauppauge, NY	1548	400	U
Free State Glass Industries; Warrenton, VA	1592	100	U
Gardner Mirror Corporation; North Wilkesboro, NC	1934	300	U
Gemtron Corp; Sweetwater, TN	1477	300	U
The Glass Factory; Ronkonkoma, NY	1460	400	U
Guardian Fabrication; Millbury, OH	1577	ANSI ONLY 200	U
Guardian Fabrication; Rogers, AR	1357	ANSI ONLY 900	U
Guardian Fabrication; Webster, MA	662	ANSI ONLY 400	U
Guardian Industries; Carleton, MI	131	ANSI ONLY 200	U
Guardian Industries; Corsicana, TX	1251	ANSI ONLY 900	U
Guardian Industries; Fort Lauderdale, FL	40	ANSI ONLY 600	U
Guardian Industries; Kingsburg, CA	971	ANSI ONLY 900	U
Guardian Industries; Richburg, SC	1633	ANSI ONLY 300	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1629	ANSI ONLY 400	U
Hamilton Glass Products; Vincennes, IN	57	200	U
Hoffer's, Inc.; Schofield, WI	1597	75	U
Interpane Spectrum Inc; Clinton, NC	1074	600	U
Laminated Glass Corp; Telford, PA	1879	400	U
Libbey-Owens-Ford Co; Ottawa, IL	1816	500	U
Marvin Windows; Warroad, MN	1691	400	U
Milgard Tempering Inc; Tacoma, WA	1578	750	U
Nashville Tempered Glass; Nashville, TN	1417	200	U
North American Glass Inds Inc; Bensenville, IL	1382	200	U
Northwest Aluminum Products; Yakima, WA	1801	750	U
Northwestern Industries; Seattle, WA	1639	750	U
Perilstein Distributing Corp; Cheswick, PA	1786	400	U
PPG Industries; Carlisle, PA	382	ANSI ONLY 400	U
PPG Industries; Burlington, IA	1604	500	U
PPG Industries; Wichita Falls, TX	1113	ANSI ONLY 900	U
Shaw Glass Co Inc; South Easton, MA	1035	400	U
Sterling Plumbing Group; Malvern, AR	1762	900	U
Sunbelt Glass, Inc; Tulsa, OK	1455	900	U
Swift Glass Co., Inc.; Elmira Heights, NY	1557	400	U
Taylor Products, Inc.; Payne, OH	1589	400	U
Tempered Glass, Inc; Austell, GA	863	300	U
Temperit AG; Switzerland	1856	400	U

	<u>SGCC NO.</u>		<u>LAB ID</u>	<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS - continued				
1/4 inch tempered transparent glass - continued				
Tempglass, Inc; Perrysburg, OH	1420		200	U
Tempglass Miami; Miami, FL	1745		600	U
Tempglass Southern, Inc; Grand Prairie, TX	1044		900	U
Tempglass Western Inc; Fremont, CA	1898		950	U
TRACO (Three Rivers Alum.); Warrendale, PA	1311		100	U
U S Precision Glass; Elgin, IL	1372		200	U
U S Precision Glass; Jefferson, TX	1287		900	U
U S Precision Glass; Lewisburg, OH	186		200	U
Vegla Vereinigte Glaswerke; Aachen, GERMANY	1942		400	U
Viracon, Inc; Owatonna, MN	1404		75	U
Virginia Glass Products; Martinsville, VA	14		600	U
5/16 inch tempered transparent glass				
Guardian Industries; Corsicana, TX	1826	ANSI ONLY	900	U
Interpane Spectrum Inc; Clinton, NC	1075		600	U
3/8 inch tempered transparent glass				
ACI Glass; Greensboro, NC	1644		300	U
ACI Glass Products Inc; Dallas, TX	1107	ANSI ONLY	900	U
ACI Glass Products; Santa Clara, CA	1497		250	U
ACI Glass; Santa Fe Springs, CA	1179		250	U
AFG Industries; Greenland, TN	90		300	U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1757		400	U
American Flat Glass Dist; Alvarado, TX	1711		900	U
American Flat Glass Distrib; Fall River, MA	1521		400	U
American Flat Glass Distrib; Marietta, GA	1232		300	U
Arch Aluminum & Glass Co; Austell, GA	1768	ANSI ONLY	300	U
Arch Tempered Glass; Orlando, FL	1895	ANSI ONLY	600	U
Colonial Mirror & Glass Corp; Brooklyn, NY	1848		400	U
D & S Tempered Glass; Dallas, TX	1657		900	U
Downey Glass Co; Los Angeles, CA	515		250	U
Floral Glass & Mirror; Hauppauge, NY	1549		400	U
Free State Glass Industries; Warrenton, VA	1593		100	U
Gardner Mirror Corporation; North Wilkesboro, NC	1935		300	U
Guardian Fabrication; Webster, MA	471	ANSI ONLY	400	U
Guardian Industries; Corsicana, TX	1253	ANSI ONLY	900	U
Guardian Industries; Richburg, SC	1634	ANSI ONLY	300	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1867	ANSI ONLY	400	U
Hoffer's, Inc.; Schofield, WI	1796		75	U
Interpane Spectrum Inc; Clinton, NC	1076		600	U
Laminated Glass Corp; Telford, PA	1880		400	U
North American Glass Inds Inc; Bensenville, IL	1383		200	U
Perilstein Distributing Corp; Cheswick, PA	1787		400	U
Shaw Glass Co Inc; South Easton, MA	1036		400	U
Sunbelt Glass, Inc; Tulsa, OK	1456		900	U
Swift Glass Co., Inc.; Elmira Heights, NY	1558		400	U
Taylor Products, Inc.; Payne, OH	1598		400	U
Tempered Glass, Inc; Austell, GA	865		300	U
Tempglass, Inc; Perrysburg, OH	594		200	U
Tempglass Miami; Miami, FL	1746		600	U
Tempglass Southern, Inc; Grand Prairie, TX	1045		900	U
Tempglass Western Inc; Fremont, CA	1899		950	U
U S Precision Glass; Elgin, IL	1854		200	U
Viracon, Inc; Owatonna, MN	1508		75	U
Virginia Glass Products; Martinsville, VA	93		600	U
1/2 inch tempered transparent glass				
ACI Glass; Greensboro, NC	1645		300	U
ACI Glass Products Inc; Dallas, TX	1108	ANSI ONLY	900	U
ACI Glass Products; Santa Clara, CA	1498		250	U
ACI Glass; Santa Fe Springs, CA	640		250	U

SGCC NO.	LAB ID	MAX. SIZE CERTIFIED
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TEMPERED TRANSPARENT GLASS - continued**1/2 inch tempered transparent glass - continued**

All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1758	400	U
American Flat Glass Dist; Alvarado, TX	1712	900	U
American Flat Glass Distrib; Fall River, MA	1522	400	U
American Flat Glass Distrib; Marietta, GA	1406	300	U
Arch Aluminum & Glass Co; Austell, GA	1769	ANSI ONLY 300	U
Arch Tempered Glass; Orlando, FL	1530	ANSI ONLY 600	U
Colonial Mirror & Glass Corp; Brooklyn, NY	1929	400	U
D & S Tempered Glass; Dallas, TX	1658	900	U
Downey Glass Co; Los Angeles, CA	516	250	U
Floral Glass & Mirror; Hauppauge, NY	1550	400	U
Free State Glass Industries; Warrenton, VA	1594	100	U
Gardner Mirror Corporation; North Wilkesboro, NC	1936	300	U
The Glass Factory; Ronkonkoma, NY	1461	400	U
Guardian Fabrication; Webster, MA	1235	ANSI ONLY 400	U
Guardian Industries; Corsicana, TX	1803	ANSI ONLY 900	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1868	ANSI ONLY 400	U
Hoffer's, Inc.; Schofield, WI	1797	75	U
Interpane Spectrum Inc; Clinton, NC	1077	600	U
Laminated Glass Corp; Telford, PA	1881	400	U
North American Glass Inds Inc; Bensenville, IL	1384	200	U
Perilstein Distributing Corp; Cheswick, PA	1788	400	U
Shaw Glass Co Inc; South Easton, MA	1037	400	U
Sunbelt Glass, Inc; Tulsa, OK	1457	900	U
Swift Glass Co., Inc.; Elmira Heights, NY	1559	400	U
Tempered Glass, Inc; Austell, GA	866	300	U
Tempglass, Inc; Perrysburg, OH	595	200	U
Tempglass Miami; Miami, FL	1747	600	U
Tempglass Southern, Inc; Grand Prairie, TX	1046	900	U
Tempglass Western Inc; Fremont, CA	1900	950	U
Viracon, Inc; Owatonna, MN	1509	75	U
Virginia Glass Products; Martinsville, VA	94	600	U

3/4 inch tempered transparent glass

ACI Glass Products Inc; Dallas, TX	1225	ANSI ONLY 900	U
All Team Glass & Mirror Ltd; Woodbridge, Ontario, CANADA	1782	400	U
Arch Tempered Glass; Orlando, FL	1835	ANSI ONLY 600	U
Floral Glass & Mirror; Hauppauge, NY	1551	400	U
Gardner Mirror Corporation; North Wilkesboro, NC	1937	300	U
Virginia Glass Products; Martinsville, VA	95	600	U

SAFETY PLASTIC SHEET**.080 inch through 0.125 inch acrylic**

Flex-O-Glass, Inc; Dixon, IL	118	600	U
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1/4 inch through 0.125 inch acrylic

Viracon, Inc; Owatonna, MN	1950	75	U
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TEMPERED BENT GLASS**5/32 inch Tempered Bent Glass**

Ardco, Inc; Chicago, IL	1563	400	U
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3/16 inch Tempered Bent Glass

Ardco, Inc; Chicago, IL	1564	400	U
North American Glass Inds Inc; Bensenville, IL	1808	200	U
Sovis S A; France	1938	400	U

1/4 inch Tempered Bent Glass

Ardco, Inc; Chicago, IL	1565	400	U
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	<u>SGCC NO.</u>		<u>LAB ID</u>	<u>MAX. SIZE CERTIFIED</u>
TEMPERED BENT GLASS - continued				
1/4 inch Tempered Bent Glass - continued				
North American Glass Inds Inc; Bensenville, IL	1809		200	U
Sovis S A; France	1864		400	U
3/8 inch Tempered Bent Glass				
North American Glass Inds Inc; Bensenville, IL	1536		200	U
1/2 inch Tempered Bent Glass				
North American Glass Inds Inc; Bensenville, IL	1533		200	U
LAMINATED TRANSPARENT-BUTYRAL				
5/32 inch laminated transparent-butyral				
Guardian Inds Corp-Lewistown; Lewistown, PA	1886	ANSI ONLY	400	U
3/16 inch laminated transparent-butyral				
Northwestern Industries; Seattle, WA	1640		750	U
Viracon, Inc; Owatonna, MN	1637		75	U
7/32 inch laminated transparent-butyral				
Guardian Industries; Upper Sandusky, OH	458	ANSI ONLY	200	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1282	ANSI ONLY	400	U
Mirror Factory Inc; Plymouth, MN	1915		400	U
1/4 inch laminated transparent-butyral				
Flachglas AG; Giesenkirchen, GERMANY	1944		950	U
Globe-Amerada; Selma, AL	1668		400	U
Guardian Industries; Upper Sandusky, OH	487	ANSI ONLY	200	U
Guardian Inds Corp-Lewistown; Lewistown, PA	1946	ANSI ONLY	400	U
Laminated Glass Corp; Telford, PA	1652		400	U
3/8 inch laminated transparent-butyral				
Guardian Inds Corp-Lewistown; Lewistown, PA	1947	ANSI ONLY	400	U
1/2 inch laminated transparent-butyral				
Guardian Inds Corp-Lewistown; Lewistown, PA	1316	ANSI ONLY	400	U
Tempglass Southern, Inc; Grand Prairie, TX	1649		900	U
LAMINATED TRANSPARENT-RESIN				
7/32 inch laminated transparent-resin				
North American Glass Inds Inc; Benton Harbor	1441		200	U
1/4 inch laminated transparent-resin				
Architectural Safety Glass; Ft. Pierce, FL	1914		600	U
9/32 inch laminated transparent-resin				
Arch Tempered Glass; Orlando, FL	1855	ANSI ONLY	600	U
1/2 inch laminated transparent-resin				
North American Glass Inds Inc; Benton Harbor	1699		200	U
LAMINATED PATTERNED-BUTYRAL				
3/16 inch laminated patterned-butyral (shallow)				
Viracon, Inc; Owatonna, MN	1636		75	U

JANUARY 1, 1995

CERTIFIED PRODUCTS - BY PRODUCT TYPE

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	<u>SGCC NO.</u>	<u>LAB ID</u>	<u>MAX. SIZE CERTIFIED</u>
ORGANIC COATED - HYBRID			
1/8 inch organic coated - hybrid			
Romag Security Laminators Inc; Consett	1940	975	U
Viracon Inc; Owatonna, MN	1883	75	U
3/16 inch organic coated - hybrid			
Viracon Inc; Owatonna, MN	1949	75	U
1/4 inch organic coated - hybrid			
Viracon Inc; Owatonna, MN	1884	75	U

SGCC 32 44/

JANUARY 1, 1995

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-1396
AFG 006

BS 6206A

ACI GLASS PRODUCTS INC

12900 Nicholson Rd
PO Box 815547
Dallas TX 75381-5547



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

AFG GLASS INC

75 Doney Crescent
Concord Ontario L4K 1P6
CANADA



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

750 Walsh Ave
Santa Clara CA 95050



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

ALL TEAM GLASS & MIRROR LTD

281 Hanlon Rd
Woodbridge Ontario L4L 3R7
CANADA

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

JANUARY 1, 1995

SGCC 43

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ANGLASS INDS INC
12364 Gladstone Ave
San Fernando CA 91342

TEMPERED
SAFETY GLASS



USA
ANSI Z97.1 1984
SGCC 520 1/8U

ARDCO INC
12400 S Laramie Ave
Chicago IL 60658

Arco TemperBent

ANSI Z97.1-1984
16 CFR 1201-CII
SGCC-1563 5/32U

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 CG
600 Heraeus Blvd
Buford GA 30518

ARCHITECTURAL SAFETY GLASS
7337 Commercial Circle
Ft Pierce FL 34951

CARDINAL IG
Iowa 25 N
PO Box 99
Greenfield IA 50849

CIG #2 TEMPERED
16CFR 1201 II
SGCC-1029 3/16U

CARDINAL IG

1011 E Madison St
Spring Green WI 53588

CONTOUR INDUSTRIES INC

Phipps Bend Rd
PO Box 69
Surgoinsville TN 37873

CARDINAL TG

1601 Rusch St
Tomah WI 54660

CORAGLASS INC

Hwy 17 South
Reform AL 35481

COLONIAL MIRROR & GLASS CORP

35 Kent Ave
Brooklyn NY 11232

D & S TEMPERED GLASS

2531 Royal Ln Suite 505
Dallas TX 75229

COMMERCIAL INSULATING GLASS CO

1155 Porter Rd
Sarasota FL 34240

DONNELLY CORP

414 E 40th St
Holland MI 49423-5368

JANUARY 1, 1995

SGCC 45

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DOWNEY GLASS CO
5631 Ferguson Dr
Los Angeles CA 90022

ful-temp

SGCC-603 .125U
ANSI-Z97.1 1984
16 CFR 1201 II
SGCC - 805

FOUR SEASONS SOLAR PRODUCTS
5005 Veterans Memorial Hwy
Holbrook NY 11741

FOUR SEASONS
TEMPERED
SAFETY GLASS
16 CFR 1201-C II
ANSI Z97.1-1984
SGCC-1791/780

FLACHGLAS AG
c/o KENNER USA
5856 College Avenue
Oakland CA 94618

FREE STATE GLASS INDS
5415 Lee Highway
Warrenton VA 22186

FREE STATE GLASS
TEMPERED SAFETY GLASS
ANSI Z97.1-1984 16 CFR 1201-I & II
SGCC 1592 1/4" U

FLEX-O-GLASS INC
1100 N Cicero Ave
Chicago IL 60651

GARDNER MIRROR CORPORATION
600 Elkin Hwy
North Wilkesboro NC 28659-1570

Warps®

FLEX-O-GLAZE™
ACRYLIC SAFETY GLAZING
16 CFR 1201 CII 100U
ANSI Z97.1-84 SGCC-118

FLORAL GLASS & MIRROR INC
895 Motor Pkwy
Hauppauge NY 11788

TemPLUS

FLORAL GLASS & MIRROR
TEMPERED SAFETY GLASS
ANSI Z97.1 1984
16 CFR 1201-I-II
SGCC-1553 7/32 u

GEMTRON CORP
New Highway 68
PO Box 416
Sweetwater TN 37874

TEMPERED
16CFR 1201 CII
ANSI Z97.1-1984
3/16 U • SGCC • 1201/1202
GEMTRON 131 1985

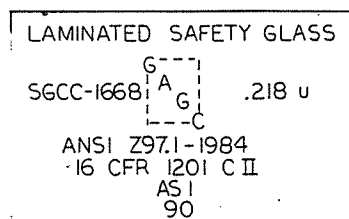
GLASS FACTORY INC
5012 Expressway Dr S
Ronkonkoma NY 11779



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

TEMPER-TUF
HAMILTON GLASS
VINCENNES IN
ANSI Z97.1-1984
1/8 U SGCC-54
16 CFR 1201 C II

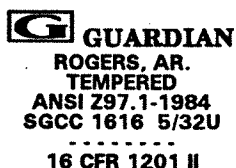
GLOBE-AMERADA GLASS CO (ASSURANCE)
2001 Greenleaf Ave
Elk Grove Village IL 60007



HOFFER'S INC
Glass Fabricating Div
5103 Janice Ave
Schofield WI 54476

H-I-T
TEMPERED GLASS
ANSI Z97.1-1984
16CFR 1201 CII
SGCC 1595 1/8

GUARDIAN FABRICATION INC
2300 Harmon Road
Auburn Hills MI 48326-1714

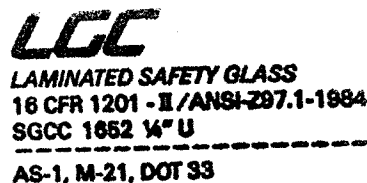


INTERPANE SPECTRUM INC
E Railroad St
PO Box 408
Clinton NC 28328

GUARDIAN INDS CORP
2300 Harmon Road
Auburn Hills MI 48326-1714



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

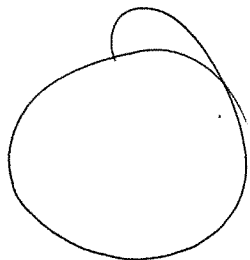


JANUARY 1, 1995


SGCC 47

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LIBBEY-OWENS-FORD CO
Center & 20th St
PO Box 578
Ottawa IL 61350



NASHVILLE TEMPERED GLASS CORP
1860 Air Lane Dr
Nashville TN 37210


N_TG_C 
ANSI Z97.1-1984
16 CFR 1201 CII
SGCC 1416 1/8" U

DOT 359 AS 2

MARVIN WINDOWS
PO Box 100 Hwy 11 W
Warroad MN 56763

NORTH AMERICAN GLASS INDS INC.
1001 Foster Ave
Bensenville IL 60106

MILGARD TEMPERING INC
1010 54th Ave E
PO Box 11368
Tacoma WA 98411-0368


TEMPERED SAFETY
ANSI Z97.1 1984
16 CFR 1201 CII
SGCC 1578 1/4U

NORTHWEST ALUMINUM PRODUCTS INC
1015 E Lincoln
Yakima WA 98907

MIRROR FACTORY INC
12725 16th Ave N
Plymouth MN 55441

NORTHWESTERN INDS INC
2501 W Commodore Way
Seattle WA 98199

**TEMPERED
SAFTY GLASS**

ANSI Z 97.1-1984
16CFR 1201-II
SGCC-1638 3/16 U

PERILSTEIN DISTRIBUTING CORP
100 Business Center Dr
Cheswick PA 15024

SOVIS S A
c/o Euroglas Glasrep Corp
1 Barker Avenue
5th Floor
White Plains NY 10601

PPG INDS INC
One PPG Place
Pittsburgh PA 15272

STERLING PLUMBING GROUP
1215 Industrial Lane
Malvern AR 72104

PPG HERCULITE K
TEMPERED SAFETY GLASS
16CFR1201 CII
ANSI Z-97.1-1984 1/4U
SGCC-382 6 022585

ROMAG SECURITY LAMINATORS INC
Howarth Court Whitelay Road
Blaydon Haughs Industrial Estate
Blaydon NE21 5NH
ENGLAND

SUNBELT GLASS INC
8531 E 44th St
Tulsa OK 74145

SUNTEMP® 1-87
SAFETY TEMPERED
ANSI Z97.1-1984
16 CFR 1201 CII
SGCC-1453 1/8 U

SHAW GLASS CO INC
55 Bristol Dr
S Easton MA 02375

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

SOLAR TEMP.
16 CFR 1201 11

ANSI Z 97.1- 1984
1/4 U SGCC 1035

JANUARY 1, 1995

SGCC 49

51

TAYLOR PRODUCTS INC

N Laura St
PO Box 77
Payne OH 45880

TEMPGLASS MIAMI

17851 N W Miami Court
Miami FL 33169


TEMPERED GLASS INC

7160 Delta Circle
Austell GA 30001

TEMPGLASS SOUTHERN INC

1101 Fountain Pkwy
Grand Prairie TX 75050

- Tuf-flex Glass FT 1/4" U I •
- TEMPERED SAFETY GLASS •
- ANSI Z97.1-1984 16 CFR 1201-1&11
- SGCC-321 SGCC-863 •

 **TEMPGLASS**
ANSI Z97.1 - 1984
SGCC 1044 1/4" U
16 CFR 1201-II

TEMPERIT AG / VETROTECH AG

Wasseriestrasse 16
CH-8340 Hinwil
SWITZERLAND

TEMPGLASS WESTERN INC

48999 Kato Rd
Fremont CA 94539

VETROTECH AG
ANSI Z97.1-1984
16 CFR 1201-II
SGCC-1856 6mm U



TEMPGLASS INC

Ampoint
291 M St
Perrysburg OH 43551

TRACO (THREE RIVERS ALUM)

Cranberry Industrial Pk
PO Box 805
Warrendale PA 15095

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


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

SGCC 5052

JANUARY 1, 1995

U S PRECISION GLASS

1900 Holmes Rd
Elgin IL 60123

VEGLA VEREINIGTE GLASWERKE GMBH

c/o Okeeffe's Inc.
75 Williams Ave
San Francisco CA 94124

VIRACON INC

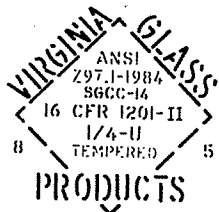
800 Park Dr
PO Box 248
Owatonna MN 55060

VIRACON

TEMPERED
16 CFR 1201.11
SGCC 1404 1/4" U
ANSI Z97.1 1984
1 85

VIRGINIA GLASS PRODUCTS CORP

PO Box 5431
Martinsville VA 24115



JANUARY 1, 1995

SGCC ~~51~~

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"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

INDUSTRIAL PARK • 3933 US ROUTE 11
P.O. BOX 2040
CORTLAND, N.Y. 13045-0950
PHONE 607-753-6711
FAX 607-756-9891

Additional SGCC Certified Products Directories are available from the SGCC office for \$3.00/copy. A check or money order must accompany each order and be made payable to SGCC

* * * * *

SGCC DIRECTORY ORDER FORM

PLEASE SEND . . . _____ copies of SGCC Certified Products Directory at \$3.00/copy = _____ to:

Name		

Company		

Address		

City	State	Zip Code

**SGCC APPROVED TESTING LABORATORIES
APPROVED FOR TESTING IN THE ANSI AND CPSC
CERTIFICATION PROGRAMS**

75	Architectural Testing Inc 587 First St S W New Brighton MN 55112 Attention: Mr Daniel P Braun Telephone: 612-636-3835	400	ETL Testing Laboratories Inc 3933 US Route 11 Cortland NY 13045-0950 Attention: Mr Randolph A. Hill Telephone: 607-753-6711
100	Architectural Testing Inc 130 Derry Ct York PA 17402-9405 Attention: Mr David Moyer Telephone: 717-764-7700	500	Huntingdon Engineering & Environmental 3922 Delaware Ave Des Moines IA 50313 Attention: Mr Carl C Andreasen S E T Telephone: 515-266-5101
200	Bowser-Morner Inc 4518 Taylorsville Rd PO Box 51 Dayton OH 45401 Attention: Mr Robert J Rosencrans Telephone: 513-236-8805	600	Miami Testing Laboratory Inc 1640 W 32nd Pl Hialeah FL 33012 Attention: Mr James W Bailey Telephone: 305-822-1141
250	Construction Consulting Laboratory Inc Western Division 4751 W State St Ste E Ontario CA 91762 Attention: Mr Ray Charland Telephone: 919-591-1789	750	Performance Testing Inc. 4076-148th Ave N E Redmond WA 98052 Attention: Mr Jon DeRose Telephone: 206-883-9788
275	ETC Laboratories 40 Ajax Road Rochester NY 14624 Attention: Mr David Kehrli Telephone: 716-328-7668	900	Southwestern Labs/Huntingdon 2200 Gravel Dr Ft Worth TX 76118-7123 Attention: Mr Kemp E Akeman P E Telephone: 817-284-7755
300	ETL Testing Laboratories Inc 4317-A Park Dr N W Norcross GA 30093 Attention: Mr William Penuel Telephone: 404-925-2444	950	Warnock Hersey International Inc 530 Garcia Ave Pittsburg CA 94565 Attention: Mr Vijay G Ruikar, P E Telephone: 510-432-7344
		975	Warnock Hersey International Inc 8431 Murphy Dr PO Box 735 Middleton WI 53562 Attention: Dan Freiburger Telephone: 608-836-4400

NOTE: The ID of the laboratory used for testing of each product is provided in the Certified Products - by Product Type section of this directory.



safety glazing certification council

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P. O. Box 2040
Cortland, NY 13045-0950

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