



safety glazing certification council

JANUARY 1, 1989

certified products directory
safety glazing material used in buildings

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MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Safety Glazing Certification Council last met on October 13 & 14, 1988. Minutes of this meeting may be obtained by writing to the Administrative Manager of the Safety Glazing Certification Council (SGCC).

* * * * *

Certification in this directory is current as of January 1, 1989; 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

Henry A. Gorry, Chairman

Carlo Carmen, Jr., Vice-Chairman

Licensee	Primary Member	First Alternate	Second Alternate
ACI Glass Products, Inc.			
AFG Glass, Inc.	Brian J. Burnet		
AFG Industries Inc.	James R. Orton	Billie G. Nichols	
Air Seal Insulating Glass Units	Herbert Yudenfriend		
American Flat Glass Distributors	Douglas A. Long		
Anglass Industries, Inc.			
Arch Tempered Glass Products			
Ardco, Inc.	Andrew G. Menke		
Binswanger/ACI Glass	Kenny Lyerla	Gordon Lillie	Bill Swanson
Bogardus Wilson Ltd.			
Central Glass & Window, Inc.			
The Chamberlain Group, Inc.	Dick Howk	John Lukens	Ned Skoog
Colonial Mirror & Glass Corp.			
Downey Glass Company	John R. Montcalm	Serge E. Graur	Lloyd Pinsky
Elgin Precision Glass Company, Inc.	Dan Cukierski	Rob Jaynes	
Empire Glass, Inc.			
Falconer Glass Industries, Inc.	Richard E. Turner, Sr.	Carlo Carmen, Jr.	Steven Crawford
Falconer-Lewistown, Inc.	Richard E. Turner, Jr.	Carlo Carmen, Jr.	Steven Crawford
Flex-O-Glass, Inc.	Harold G. Warp	Delbert Christensen	
Flex-Temp, Inc.			
Floral Glass & Mirror, Inc.	Charles Kaplanek		
Franklin Glass Division			
Free State Industries			
Fulton Glass Industries, Inc.	Paul F. Tumey	Eric Bloch	Howard Bienenfeld
Gemtron Corp.	Frank DeFord		
General Glass Corporation	Paul Toltz	Peter Fillmore	
Geneva Glass Industries			
Glass Factory, Inc., The			
Glass Tempering Service, Inc.	Virgil S. Taylor		
Glasstemp, Inc.	Steve Lacey	Mark Roman	
Good News Glass	Wesley C. Garner		
GMG Industries, Inc.			
Guardian Fabrication, Inc.	Henry A. Gorry		
Guardian Industries Corp.	Henry A. Gorry	R. L. Alonzo	L. Morrison
Hamilton Glass Products, Inc.	Robert A. Moss	William D. Hodgdon	J. Bruce Crockett
Hankuk Glass Industry, Ltd.			
Havlin Witkin Corporation			
Hehr Glass Company			
Hoffer's, Inc.			
Hordis Brothers, Inc.	Richard E. Wright	Robert B. Williams	

SGCC CERTIFICATION COMMITTEE

Licensee	Primary Member	First Alternate	Second Alternate
Howe-Martz Glass Company			
Insulpane, Inc.			
Nashville Tempered Glass Corp.			
O & W Glass Industries, Inc.			
OPG Industries, Inc.	John M. Barr	Gene Gilbert	
Perma*View Processed Glass	Danny L. Rinehart		
PPG Industries, Inc.	Richard T. McGuire	Charles R. Sutermeister	John M. Schlueter
Safelite Glass Corp.	Gary Harris	Robert Avers	
Saint Gobain			
Shaw Glass Company, Inc.	Frederic P. Shaw		
Spectrum Glass Products	Ronald P. Warren		
Sumitec, Inc.	Steve Winger		
Sunbelt Glass Inc.	Mike Kelley		
Sunglas Products, Inc.	Mitchel D. Edwards	Omicka Burgess	
Swift Glass Company, Inc.			
Taylor Products, Inc.			
Temp-Tech Industries, Inc.	Bart Semeraro		
Tempered Glass Corporation	Paul F. Tumey	Scott Aldrich	Howard Bienenfeld
Tempered Glass, Inc.	Douglas A. Sampsel	W. Eugene	
Tempered Glass International, Inc.			
Tempglass, Inc.	John Colapietro	Irvin D. Fintel	
Tempglass Eastern, Inc.	John C. Mulvanerty		
Tempglass Southern, Inc.			
TRACO (Three Rivers Aluminum)	Robert P. Randall	John Kalakos	
Vidrierias de Llodio, S.A.	Henry A. Gorry	A. Subinas Landa	Jose F. Zabala
Viracon, Inc.	William Knutsen	Russ Huffer	Rick Voelker
Viracon/Insolair	Harold Landsman		
Virginia Glass Products Corporation	Robert L. Brown	Brooks R. Leavitt	A. P. Stillman

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National Bureau of Standards	Mario Cellarosi
Consumer	Mrs. Jean Cornwell
Consumer	George L. Graf, Jr.
Consumer	Mrs. Sylvia Lav
University of Missouri - Rolla	Joseph E. Minor
Glasstech, Inc.	Norman Nitschke

Members from those without certified products:

Deposition Technology, Inc.	Martin I. Cohen
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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 manufacturers label; and to withdraw the manufacturers 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 manufacturer's 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.

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

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

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

PROCEDURAL GUIDE

FOREWORD

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

Both ANSI Z97.1-1984 and 16 CFR 1201 provide sound technical basis for a high level of safety. With the addition of independent administration, plus periodic routine sampling and product evaluation, a program of product certification is maintained which provides an independent third-party certification and testing program. The Certification Program described herein is predicated upon the concept of independent and impartial administration of the certification procedures which are incorporated in the SGCC license agreement.

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

GENERAL INFORMATION

THE CERTIFICATION CONCEPT

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

To buyers, specifiers, code officials and users, the SGCC certification label offers the manufacturer's assurance his safety glazing material has been produced in conformance to ANSI Z97.1-1984 and/or 16 CFR 1201.

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

WHO CAN BECOME A LICENSEE?

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

WHO CONDUCTS THE PROGRAM?

The Safety Glazing Certification Council, a non-profit corporation, is the sponsor of the Certification Program. SGCC supervises the Certification Program under which its administrator periodically checks and reports compliance of the products having the SGCC certification label with the requirements of ANSI Z97.1-1984 and/or 16 CFR 1201.

ADMINISTRATION

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

HOW CAN YOU BECOME A LICENSEE?

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

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

Having received all of the above items, SGCC sends to the licensee the notice of product certification which includes an SGCC certification number. This number must be incorporated into the permanent label affixed to each piece of certified safety glazing material. The certified item will be listed in the next edition of the Certified Products Directory.

HOW THE CERTIFICATION PROGRAM WORKS

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

SGCC recognized approved testing laboratories conduct all tests. All laboratories, whose test reports are utilized by the Certification Program, shall be approved by the SGCC Certification Committee. Initial or prototype tests are performed at an approved testing laboratory selected by the licensee. Routine evaluation samples are tested by an approved testing laboratory selected, with the concurrence of the administrator, by the licensee.

ADMINISTRATOR AUTHORIZES CERTIFICATION

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

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

PRODUCTS LISTED IN CERTIFIED PRODUCTS DIRECTORY

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

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

COMPLIANCE SAFEGUARDS

HOW IS COMPLIANCE ASSURED

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

CHALLENGING A CERTIFIED PRODUCT

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

WITHDRAWAL OF CERTIFIED PRODUCT

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

COSTS

WHAT DOES THE PROGRAM COST?

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

Initial certification for each item is for a period of six months. However, the subsequent invoice to a licensee will be prorated to the nearest whole month in such manner that participation in the Certification Program will be on a January 1 to July 1 and July 1 to January 1 basis.

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 July 1 or a July 1 to January 1 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:

Mr. Robert L. Brown, SGCC President
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Martinsville, VA 24115
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Mr. Henry A. Gorry, Chairman
SGCC Certification Committee
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Telephone: 313-347-0100

Mr. Claude F. Robb
Administrative Manager
ETL Testing Laboratories, Inc.
Route 11 - Industrial Park
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 July 1 and July 1 to January 1 basis. Charges will be prorated to the nearest whole month based on the date of approval of certification.

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. 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.

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.

G.12

If a licensee who manufactures a certified product outside the 48 contiguous states 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 administrator shall remove certification from all of any licensee's products for failure to pay any monies due to SGCC within 30 days of invoice date. (Reference license agreement A.2, A.12 and B.6)

G.15

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

G.16

The nominal thickness designations in SGCC authorized permanent labels for safety glazing materials may be shown in metric units. The thickness will be expressed in millimeters, limited to two decimal places, and will have the suffix "mm."

G.17

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

G.18

Certified and permanently labeled safety glazing materials such as laminated glass, wired glass, rigid plastic or organic coated glass may be cut into smaller pieces by a distributor or installer after manufacture and it is not practical for each such smaller piece to bear a manufacturer's permanent label when finally installed in a building. When this is the case, then the distributor or installer shall apply a permanent label to each piece, which states his name and certifies that he cut the piece from material that was properly labeled in accordance with the requirements of SGCC.

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

G.19

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 prior to closing date of the certified products directory.

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 C1036-85 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.

TEMPERED TRANSPARENT GLASS**T.1**

Certification of either flat glass or patterned glass will not cover the other except as noted in Guideline T.2. (Flat glass designates ground and polished plate, float and sheet glass.) Four specimens shall be used for impact testing as detailed at 16 CFR 1201.4(a)(1).

T.2

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

T.3

Certification of regular tempered glass will also cover tinted, heat absorbing and coated glasses of the same nominal thickness. Glasses of the same nominal thickness with a ceramic material applied as a continuous or partial coating to one or more surfaces prior to tempering are also covered.

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 C1036-85. The permanent label must contain this fraction or a metric or decimal dimension within the tolerance of this thickness as published in ASTM C1036-85. Four specimens shall be used for impact testing as detailed at 16 CFR 1201.4(a)(1).

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

Patterned depth class	Ratio
Shallow patterned glass	0.90 or above
Medium patterned glass	0.80 through 0.89
Deep patterned glass	0.79 or below

Certification will be by nominal thickness and patterned depth class. Any pattern in a certified thickness and patterned depth class is certified.

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

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.

In the case of 5/32 inch tempered patterned glass refer to ASTM C1048-85 because this thickness is not included in ASTM C1036-85.

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, both flat and bent of the same nominal thickness. Four specimens shall be used for impact testing as detailed at 16 CFR 1201.4(a)(1).

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. Polyurethane interlayer shall have a thickness tolerance of plus or minus 0.015 inches.

The tolerance of the polyvinylbutyral (PVB) 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 the polyvinyl copolymer acetate (PCA) 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.

L.8

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

L.9

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

WIRED GLASS (ANSI ONLY)

W.1

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

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

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

PLASTICS - GENERAL

P.1

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

P.1 - CPSC ONLY

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

P.2

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

P.3

The following thickness tolerances shall be used for certification purposes:

Outdoor use plastic materials Class 1. Cast acrylic. (Including continuously cast sheet): As specified in Federal Specification LP-391, latest issue.

Outdoor use plastic materials Class 2. Extruded acrylic: As specified in Federal Specification LP-507, latest issue.

Outdoor use plastic materials Class 3. Extruded polycarbonate: As specified in Military Specification MIL-P-46144, latest issue.

Indoor use plastic materials Class 1: Plus or minus 10 percent of nominal thickness.

P.4

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

P.5

Certification of either smooth plastic or patterned plastic will not cover the other.

PLASTICS - EXTERIOR USE

PE.1 (ANSI ONLY)

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

PE.1 (CPSC Only)

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

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

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**PI.1 (ANSI ONLY)**

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

PI.1 (CPSC ONLY)

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

PI.2

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

PI.3

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

LEADED PATTERNED ANNEALED GLASS - (ANSI ONLY)**LG.1**

Certification of one leaded patterned glass (annealed) may be extended to cover other patterns (on the glass surface) provided:

- a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.
- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1984 for each alternate pattern proposed.
- c) The certification committee is provided with a 6 by 6 inch sample of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.
- d) After admission under blanket certification covering leaded patterned glass (annealed), any such patterns available may be selected by the administrator for routine sampling.

LG.2

Certification of one diamond shaped leaded patterned glass (annealed) may be extended to cover other sizes of diamonds provided: a) All aspects of the product except diamond size is the same as the certified product.

- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1984 for each alternate size diamond proposed.
- c) The certification committee is provided with a 6 by 6 inch or a proper and representative sample of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.

After admission under blanket certification, any such size diamond available may be selected by the administrator for routine testing.

LG.3

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

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

ORGANIC COATED GLASS**AG.1**

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

AG.2

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

(ANSI ONLY)

Prototype test shall be conducted on bent specimens of the surface area at least 50 percent of the maximum size for which certification is desired. Routine tests may be conducted on flat or bent specimens. The test apparatus shall be modified to clamp the vertical straight edges and to support the concave side for the curved edges. Two specimens shall have organic coating on the concave surface and two on the convex surface. Impact shall be on the convex surface.

SGCC LABEL REQUIREMENTS

GENERAL

Unless the SGCC certification label is permanently affixed to each piece of safety glazing material, it is not covered by the SGCC certification program. The labels illustrated in this certified products directory are typical of those found on each piece of safety glazing material.

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. (See examples below).

The Permanent label must contain identification of the plant at which the product was made and the name or trade mark of the licensee.

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.

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

CLASSIFIED TEMPERED GLASS PATTERNS**1/8 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		

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			

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) Sportswood				

210 inch medium

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

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

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

7/32 inch medium

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

(29) Lozenge	(53) Boardlite
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<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
12 Virginia Glass Products	631 Guardian Industries - ANSI	1073 Spectrum Glass Prods - ANSI
14 Virginia Glass Products	633 Guardian Industries - ANSI	1074 Spectrum Glass Prods - ANSI
24 AFG Industries	639 ACI Glass	1075 Spectrum Glass Prods - ANSI
28 AFG Industries	640 ACI Glass	1076 Spectrum Glass Prods - ANSI
40 Guardian Industries - ANSI	654 OPG Industries - ANSI	1077 Spectrum Glass Prods - ANSI
41 Guardian Industries - ANSI	662 Guardian Fabrication - ANSI	1080 Spectrum Glass Prods - CPSC
54 Hamilton Glass Products	675 PPG Industries	1081 Spectrum Glass Prods - CPSC
57 Hamilton Glass Products	676 PPG Industries	1082 Spectrum Glass Prods - CPSC
64 PPG Industries	678 Downey Glass Co - ANSI	1083 Spectrum Glass Prods - CPSC
70 PPG Industries	709 Falconer Glass Industries	1084 Spectrum Glass Prods - CPSC
89 AFG Industries	711 Falconer Glass Industries	1107 Binswanger/ACI Glass - ANSI
90 AFG Industries	712 Falconer Glass Industries	1108 Binswanger/ACI Glass - ANSI
93 Virginia Glass Products	812 Downey Glass Co - CPSC	1110 PPG Industries
94 Virginia Glass Products	813 Downey Glass Co - CPSC	1111 PPG Industries
95 Virginia Glass Products	814 Downey Glass Co - CPSC	1112 PPG Industries
118 Flex-O-Glass, Inc	815 Downey Glass Co - CPSC	1113 PPG Industries - ANSI
131 Guardian Industries - ANSI	817 Downey Glass Co - CPSC	1114 Downey Glass Co - CPSC
185 OPG Industries	862 Tempered Glass, Inc - CPSC	1118 Tempered Glass Corp
186 OPG Industries	863 Tempered Glass, Inc - CPSC	1123 Fulton Glass Inds - ANSI
188 OPG Industries - ANSI	865 Tempered Glass, Inc - CPSC	1124 Fulton Glass Inds - ANSI
194 PPG Industries	866 Tempered Glass, Inc - CPSC	1125 Fulton Glass Inds - ANSI
195 PPG Industries	879 Tempered Glass Int'l - CPSC	1126 Fulton Glass Inds - ANSI
220 AFG Industries	881 Tempered Glass Int'l - CPSC	1127 Fulton Glass Inds - ANSI
249 PPG Industries	882 Tempered Glass Int'l - CPSC	1130 Fulton Glass Inds - CPSC
250 PPG Industries	933 Guardian Industries - ANSI	1131 Fulton Glass Inds - CPSC
295 PPG Industries	934 Guardian Industries - ANSI	1132 Fulton Glass Inds - CPSC
300 Guardian Fabrication - ANSI	935 Downey Glass Co - ANSI	1134 Fulton Glass Inds - CPSC
320 Tempered Glass, Inc - ANSI	949 AFG Industries	1139 AFG Industries
321 Tempered Glass, Inc - ANSI	955 AFG Industries	1143 AFG Industries
322 Tempered Glass, Inc - ANSI	968 Guardian Industries - ANSI	1157 ACI Glass
323 Tempered Glass, Inc - ANSI	969 Guardian Industries - ANSI	1161 Guardian Industries - ANSI
328 OPG Industries - ANSI	970 Guardian Industries - ANSI	1165 Colonial Mirror & Glass
337 Tempered Glass Corp	971 Guardian Industries - ANSI	1166 Colonial Mirror & Glass
338 Tempered Glass Corp	979 Tempglass Eastern, Inc	1167 Colonial Mirror & Glass
348 Tempered Glass Corp	981 Tempglass Eastern, Inc	1173 Safelite Glass Corp - ANSI
382 PPG Industries - ANSI	982 Tempglass Eastern, Inc	1180 General Glass Corp
400 Binswanger/ACI Glass	986 Temp-Tech Industries, Inc	1181 General Glass Corp
402 Binswanger/ACI Glass	999 Anglass Industries - ANSI	1182 General Glass Corp
458 Guardian Industries - ANSI	1000 Anglass Industries - ANSI	1200 Hamilton Glass Products
471 Guardian Fabrication - ANSI	1004 Guardian Industries - ANSI	1201 Gemtron Corp
482 Tempered Glass Int'l - ANSI	1034 Shaw Glass Co Inc	1204 Tempered Glass Int'l - ANSI
483 Tempered Glass Int'l - ANSI	1035 Shaw Glass Co Inc	1205 Tempered Glass Int'l - CPSC
487 Guardian Industries - ANSI	1036 Shaw Glass Co Inc	1212 Fulton Glass Inds - CPSC
514 Downey Glass Co - ANSI	1037 Shaw Glass Co Inc	1216 Guardian Fabrication - ANSI
515 Downey Glass Co - ANSI	1039 Tempglass, Inc	1219 Tempglass Southern, Inc
516 Downey Glass Co - ANSI	1041 Ardco, Inc	1225 Binswanger/ACI Glass - ANSI
520 Anglass Industries - ANSI	1042 Ardco, Inc	1226 ACI Glass
562 OPG Industries - ANSI	1044 Tempglass Southern, Inc	1230 American Flat Glass Distrib
586 The Chamberlain Group	1045 Tempglass Southern, Inc	1231 American Flat Glass Distrib
587 AFG Industries	1046 Tempglass Southern, Inc	1232 American Flat Glass Distrib
592 Tempglass, Inc	1050 OPG Industries	1235 Guardian Fabrication - ANSI
594 Tempglass, Inc	1058 Tempglass Eastern, Inc	1238 Glass Tempering Service
595 Tempglass, Inc	1059 Tempglass Eastern, Inc	1241 Tempered Glass Int'l - ANSI
598 AFG Industries	1062 Hehr Glass Co	1248 Guardian Industries - ANSI
630 Downey Glass Co - ANSI	1067 PPG Industries - ANSI	1249 Guardian Industries - ANSI

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
1250 Guardian Industries - ANSI	1375 Sunglas Products - CPSC	1463 Guardian Industries - ANSI
1251 Guardian Industries - ANSI	1376 The Chamberlain Group	1464 Guardian Industries - ANSI
1253 Guardian Industries - ANSI	1377 The Chamberlain Group	1467 Nashville Tempered Glass
1259 Tempglass Eastern, Inc	1378 The Chamberlain Group	1468 Insulpane, Inc
1265 Howe-Martz Glass	1379 Hordis Brothers, Inc.	1469 Insulpane, Inc
1266 Howe-Martz Glass	1380 Hordis Brothers, Inc.	1470 Insulpane, Inc
1268 Howe-Martz Glass	1381 Glasstemp, Inc.	1471 Insulpane, Inc
1269 Howe-Martz Glass	1382 Glasstemp, Inc.	1472 Insulpane, Inc
1270 Howe-Martz Glass	1383 Glasstemp, Inc.	1473 Insulpane, Inc
1275 Virginia Glass Products	1384 Glasstemp, Inc.	1476 Viracon, Inc
1280 Falconer Glass Industries	1385 Hamilton Glass Products	1477 Gemtron Corp
1281 OPG Industries	1386 Hamilton Glass Products	1479 Hankuk Glass Ind - ANSI
1282 Falconer-Lewistown - ANSI	1387 Hamilton Glass Products	1480 Hankuk Glass Ind - ANSI
1284 Falconer-Lewistown - ANSI	1388 OPG Industries - ANSI	1481 Hankuk Glass Ind - ANSI
1286 OPG Industries	1389 Glass Tempering Service	1482 Hankuk Glass Ind - ANSI
1287 OPG Industries	1390 AFG Industries	1483 Hankuk Glass Ind - ANSI
1298 PPG Industries - ANSI	1393 Saint Gobain - ANSI	1484 Shaw Glass Co Inc
1299 Shaw Glass Co Inc	1394 Guardian Fabrication	1485 AFG Glass Inc
1301 Guardian Industries - ANSI	1395 Tempered Glass Corp	1486 AFG Glass Inc
1303 Guardian Industries - ANSI	1398 Empire Glass, Inc	1487 AFG Glass Inc
1304 Guardian Industries - ANSI	1399 Empire Glass, Inc	1489 AFG Glass Inc
1308 TRACO (Three Rivers Alum.)	1400 Empire Glass, Inc	1492 Hehr Glass Co
1310 TRACO (Three Rivers Alum.)	1401 Empire Glass, Inc	1493 Hehr Glass Co
1311 TRACO (Three Rivers Alum.)	1402 Empire Glass, Inc	1494 Havlin Witkin Corp
1315 Falconer-Lewistown - ANSI	1403 Viracon, Inc	1495 Havlin Witkin Corp
1316 Falconer-Lewistown - ANSI	1404 Viracon, Inc	1496 Havlin Witkin Corp
1318 Guardian Industries - ANSI	1405 American Flat Glass Distrib	1497 Havlin Witkin Corp
1323 Ardco, Inc	1406 American Flat Glass Distrib	1498 Havlin Witkin Corp
1326 Fulton Glass Inds - ANSI	1413 Hankuk Glass Ind - ANSI	1499 Geneva Glass Industries
1327 Fulton Glass Inds - CPSC	1414 AFG Industries	1500 Geneva Glass Industries
1329 Tempered Glass Corp	1415 American Flat Glass Distrib	1501 Geneva Glass Industries
1331 Vidrierias de Llodio - CPSC	1416 Nashville Tempered Glass	1502 Geneva Glass Industries
1332 Gemtron Corp	1417 Nashville Tempered Glass	1503 Geneva Glass Industries
1334 Gemtron Corp	1420 Tempglass, Inc	1504 Geneva Glass Industries
1336 PPG Industries - ANSI	1421 Hordis Brothers, Inc.	1505 Perma*View Processed Glass
1338 Tempglass Eastern, Inc	1422 Gemtron Corp	1506 Perma*View Processed Glass
1340 Glass Tempering Service	1424 Gemtron Corp	1507 Hehr Glass Co
1344 Howe-Martz Glass	1426 Gemtron Corp	1508 Viracon, Inc
1355 Guardian Fabrication	1428 American Flat Glass Distrib	1509 Viracon, Inc
1356 Guardian Fabrication	1429 O & W Glass Ind	1510 Hehr Glass Co
1357 Guardian Fabrication	1436 AFG Industries	1511 Air Seal IG Units Co
1358 Guardian Fabrication	1441 Sumitec, Inc. - ANSI	1512 Air Seal IG Units Co
1359 Guardian Fabrication	1445 Vidrierias de Llodio - CPSC	1513 Air Seal IG Units Co
1360 Safelite Glass Corp	1448 Hordis Brothers, Inc.	1514 Hehr Glass Co
1361 Sunglas Products - ANSI	1452 OPG Industries	1515 Guardian Industries
1362 Sunglas Products - ANSI	1453 Sunbelt Glass, Inc	1516 Hehr Glass Co
1363 Sunglas Products - ANSI	1454 Sunbelt Glass, Inc	1517 Hehr Glass Co
1365 Sunglas Products - CPSC	1455 Sunbelt Glass, Inc	1518 American Flat Glass Distrib
1366 Sunglas Products - CPSC	1456 Sunbelt Glass, Inc	1519 American Flat Glass Distrib
1367 Sunglas Products - CPSC	1457 Sunbelt Glass, Inc	1520 American Flat Glass Distrib
1369 Elgin Precision Glass Co	1458 The Glass Factory	1521 American Flat Glass Distrib
1370 Elgin Precision Glass Co	1459 The Glass Factory	1522 American Flat Glass Distrib
1371 Elgin Precision Glass Co	1460 The Glass Factory	1523 American Flat Glass Distrib
1372 Elgin Precision Glass Co	1461 The Glass Factory	1524 American Flat Glass Distrib
1374 Sunglas Products - ANSI	1462 Guardian Industries - ANSI	1525 Bogardus Wilson Ltd.

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
1526 Arch Tempered Glass - ANSI	1568 GMG Industries, Inc.	1611 Downey Glass Co - ANSI
1527 Arch Tempered Glass - ANSI	1571 Viracon + Insolair	1612 Downey Glass Co - CPSC
1528 Arch Tempered Glass - ANSI	1572 Viracon + Insolair	1613 Downey Glass Co - CPSC
1529 Arch Tempered Glass - ANSI	1573 Good News Glass	1614 Downey Glass Co - CPSC
1530 Arch Tempered Glass - ANSI	1574 Guardian Fabrication - ANSI	1615 Downey Glass Co - CPSC
1531 Arch Tempered Glass - ANSI	1575 Guardian Fabrication - ANSI	1616 Guardian Fabrication
1533 Glasstemp, Inc.	1576 Guardian Fabrication - ANSI	1617 Sunbelt Glass, Inc
1534 Glasstemp, Inc.	1577 Guardian Fabrication - ANSI	1618 Sunbelt Glass, Inc
1535 ACI Glass	1578 Milgard Tempering Inc	1619 Chen's Tempered Glass
1536 Glasstemp, Inc.	1585 Franklin Glass Div	1620 Chen's Tempered Glass
1539 Good News Glass	1586 Taylor Products, Inc.	1621 Solar Seal South
1541 Good News Glass	1587 Taylor Products, Inc.	1622 Solar Seal South
1542 Good News Glass	1588 Taylor Products, Inc.	1624 AFG Industries
1544 Good News Glass	1589 Taylor Products, Inc.	1625 Dependable Glass - ANSI
1545 Falconer Glass Industries	1590 Free State Industries	1626 Dependable Glass - ANSI
1546 Floral Glass & Mirror	1591 Free State Industries	1636 Viracon, Inc
1547 Floral Glass & Mirror	1592 Free State Industries	1637 Viracon, Inc
1548 Floral Glass & Mirror	1593 Free State Industries	1638 Northwestern Industries
1549 Floral Glass & Mirror	1594 Free State Industries	1639 Northwestern Industries
1550 Floral Glass & Mirror	1595 Hoffer's, Inc.	1640 Northwestern Industries
1551 Floral Glass & Mirror	1596 Hoffer's, Inc.	1641 AFG Industries
1552 Floral Glass & Mirror	1597 Hoffer's, Inc.	1642 ACI Glass
1553 Floral Glass & Mirror	1598 Taylor Products, Inc.	1643 ACI Glass
1554 Perma*View Processed Glass	1599 Central Glass & Window - ANSI	1644 ACI Glass
1555 Swift Glass Co., Inc.	1600 Central Glass & Window - ANSI	1645 ACI Glass
1556 Swift Glass Co., Inc.	1601 Insulpane, Inc	1646 Hehr Glass Co - ANSI
1557 Swift Glass Co., Inc.	1602 Hehr Glass Co - ANSI	1647 Pan Lam Industries
1558 Swift Glass Co., Inc.	1603 PPG Industries	1648 Tempglass Southern, Inc
1559 Swift Glass Co., Inc.	1604 PPG Industries	1649 Tempglass Southern, Inc
1562 Arch Tempered Glass - ANSI	1605 PPG Industries	1650 Tempglass Southern, Inc
1563 Ardco, Inc	1606 PPG Industries	1651 Macdonald Mirror
1564 Ardco, Inc	1607 Guardian Fabrication - ANSI	1652 Laminated Glass Corp.
1565 Ardco, Inc	1608 Downey Glass Co - ANSI	
1566 GMG Industries, Inc.	1609 Downey Glass Co - ANSI	
1567 GMG Industries, Inc.	1610 Downey Glass Co - ANSI	

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
ACI GLASS; GREENSBORO, NC					ANGLASS INDUSTRIES, INC.; SAN FERNANDO, CA				
1642	3/16	(5.0)	TTG	U					ANSI ONLY
1643	1/4	(6.0)	TTG	U	520	1/8	(3.0)	TTG	U
1644	3/8	(10.0)	TTG	U	999	3/16	(5.0)	TTG	U
1645	1/2	(12.0)	TTG	U	1000	1/4	(6.0)	TTG	U
ACI GLASS PRODUCTS, INC.; SANTA FE SPRINGS, CA					ARCH TEMPERED GLASS PRODUCTS; ORLANDO, FL				
1157	3/16	(5.0)	TTG	U					ANSI ONLY
1535	1/4	(6.0)	TTG	U	1526	1/8	(3.0)	TTG	U
639	3/8	(10.0)	TTG	U	1527	3/16	(5.0)	TTG	U
640	1/2	(12.0)	TTG	U	1528	1/4	(6.0)	TTG	U
1226	1/8	(3.2)	TPG(S)	U	1529	3/8	(10.0)	TTG	U
AFG INDUSTRIES, INC.; BRIDGEPORT, WV					1530	1/2	(12.0)	TTG	U
1436	1/8	(3.0)	TTG	U	1531	1/8	(3.0)	TPG(S)	U
1624	5/32	(4.0)	TTG	U	1562	3/16	(4.8)	TPG(S)	U
AFG INDUSTRIES, INC.; VICTORVILLE, CA					ARDCO, INC; CHICAGO, IL				
1641	5/32	(4.0)	TTG	U	1041	1/8	(3.0)	TTG	U
AFG INDUSTRIES, INC.; GREENLAND, TN					1323	5/32	(4.0)	TTG	U
598	1/8	(3.0)	TTG	U	1042	3/16	(5.0)	TTG	U
955	5/32	(4.0)	TTG	U	1563	5/32	(4.0)	TBG	U
220	3/16	(5.0)	TTG	U	1564	3/16	(5.0)	TBG	U
89	1/4	(6.0)	TTG	U	1565	1/4	(6.0)	TBG	U
90	3/8	(10.0)	TTG	U	BINSWANGER/ACI GLASS; DALLAS, TX				
587	1/8	(3.2)	TPG(S)	U					ANSI ONLY
1139	3/16	(4.8)	TPG(S)	U	1107	3/8	(10.0)	TTG	U
AFG INDUSTRIES, INC.; KINGSFORD, TN					1108	1/2	(12.0)	TTG	U
1390	1/8	(3.0)	TTG	U	1225	3/4	(19.0)	TTG	U
949	5/32	(4.0)	TTG	U	BINSWANGER/ACI GLASS; DALLAS, TX				
28	3/16	(5.0)	TTG	U	400	3/16	(5.0)	TTG	U
24	1/4	(6.0)	TTG	U	402	1/4	(6.0)	TTG	U
1143	3/16	(4.8)	TPG(S)	U	BOGARDUS WILSON LTD.; WINNIPEG, MANITOBA, CANADA				
1414	1/8	(3.2)	TPG(M)	U	1525	1/2	(12.0)	TTG	U
AFG GLASS, INC.; CONCORD, ONTARIO, CANADA					CENTRAL GLASS & WINDOW, INC.; PINELLAS PARK, FL				
1485	1/8	(3.0)	TTG	U					ANSI ONLY
1486	5/32	(4.0)	TTG	U	1599	1/4	(6.0)	LTG	U
1487	3/16	(5.0)	TTG	U	1600	1/2	(12.0)	LTG	U
1489	1/4	(6.0)	TTG	U	THE CHAMBERLAIN GROUP, INC.; MALVERN, AR				
AIR SEAL INSULATING GLASS UNITS CO; GLOUCESTER CITY, NJ					586	1/8	(3.0)	TTG	U
1511	1/8	(3.0)	OCG	U	1376	5/32	(4.0)	TTG	U
1512	3/16	(5.0)	OCG	U	1377	3/16	(5.0)	TTG	U
1513	1/4	(6.0)	OCG	U	1378	1/4	(6.0)	TTG	U
AMERICAN FLAT GLASS DISTRIBUTORS; FALL RIVER, MA					CHEN'S TEMPERED GLASS CORP.; KAOHSIUNG SHENG, TAIWAN, ROC				
1518	1/8	(3.0)	TTG	U	1619	3/16	(5.0)	TTG	U
1519	3/16	(5.0)	TTG	U	1620	1/4	(6.0)	TTG	U
1520	1/4	(6.0)	TTG	U	COLONIAL MIRROR AND GLASS CORP.; BROOKLYN, NY				
1521	3/8	(10.0)	TTG	U	1165	1/4	(6.0)	TTG	U
1522	1/2	(12.0)	TTG	U	1166	3/8	(10.0)	TTG	U
1524	5/32	(4.0)	TPG(S)	U	1167	1/2	(12.0)	TTG	U
1523	3/16	(4.8)	TPG(S)	U	DEPENDABLE GLASS & MIRROR OF MIAMI; MIAMI, FL				
AMERICAN FLAT GLASS DISTRIBUTORS; MARIETTA, GA									ANSI ONLY
1405	1/8	(3.0)	TTG	U	1625	1/4	(6.0)	LTG(.035)	U
1230	3/16	(5.0)	TTG	U	1626	1/2	(12.0)	LTG(.038)	U
1231	1/4	(6.0)	TTG	U	DOWNEY GLASS COMPANY; LOS ANGELES, CA				
1232	3/8	(10.0)	TTG	U					ANSI ONLY
1406	1/2	(12.0)	TTG	U	1608	1/8	(3.0)	TTG	U
1428	5/32	(4.0)	TPG(S)	U	1609	5/32	(4.0)	TTG	U
1415	3/16	(4.8)	TPG(S)	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
DOWNEY GLASS COMPANY; LOS ANGELES, CA (CON'T)					FREE STATE INDUSTRIES; WARRENTON, VA				
630	3/16	(5.0)	TTG	U	1590	1/8	(3.0)	TTG	U
514	1/4	(6.0)	TTG	U	1591	3/16	(5.0)	TTG	U
515	3/8	(10.0)	TTG	U	1592	1/4	(6.0)	TTG	U
516	1/2	(12.0)	TTG	U	1593	3/8	(10.0)	TTG	U
1610	1/8	(3.2)	TPG(S)	U	1594	1/2	(12.0)	TTG	U
935	3/16	(4.8)	TPG(S)	U	FULTON GLASS INDUSTRIES, INC.; RED OAK, GA				
678	7/32	(5.6)	TPG(S)	U					ANSI ONLY
1611	1/8	(3.2)	TPG(M)	U	1123	5/32	(4.0)	TTG	U
DOWNEY GLASS COMPANY; LOS ANGELES, CA					1124	3/16	(5.0)	TTG	U
				CPSC ONLY	1125	1/4	(6.0)	TTG	U
1612	1/8	(3.0)	TTG	U	1126	3/8	(10.0)	TTG	U
1613	5/32	(4.0)	TTG	U	1127	1/2	(12.0)	TTG	U
812	3/16	(5.0)	TTG	U	1326	3/16	(4.8)	TPG(S)	U
813	1/4	(6.0)	TTG	U	FULTON GLASS INDUSTRIES, INC.; RED OAK, GA				
814	3/8	(10.0)	TTG	U					CPSC ONLY
815	1/2	(12.0)	TTG	U	1130	5/32	(4.0)	TTG	U
1614	1/8	(3.2)	TPG(S)	U	1131	3/16	(5.0)	TTG	U
1114	3/16	(4.8)	TPG(S)	U	1132	1/4	(6.0)	TTG	U
817	7/32	(5.6)	TPG(S)	U	1212	3/8	(10.0)	TTG	U
1615	1/8	(3.2)	TPG(M)	U	1134	1/2	(12.0)	TTG	U
ELGIN PRECISION GLASS COMPANY, INC; ELGIN, IL					1327	3/16	(4.8)	TPG(S)	U
1369	1/8	(3.0)	TTG	U	GEMTRON CORPORATION; SWEETWATER, TN				
1370	5/32	(4.0)	TTG	U	1334	1/8	(3.0)	TTG	U
1371	3/16	(5.0)	TTG	U	1332	5/32	(4.0)	TTG	U
1372	1/4	(6.0)	TTG	U	1426	.169	(4.3)	TTG	U
EMPIRE GLASS, INC.; BRONX, NY					1201	3/16	(5.0)	TTG	U
1398	3/16	(5.0)	TTG	U	1477	1/4	(6.0)	TTG	U
1399	1/4	(6.0)	TTG	U	1422	1/8	(3.2)	TPG(S)	U
1400	3/8	(10.0)	TTG	U	1424	5/32	(4.0)	TPG(S)	U
1401	1/2	(12.0)	TTG	U	GENERAL GLASS CORPORATION; DENVER, CO				
1402	3/4	(19.0)	TTG	U	1180	5/32	(4.0)	TTG	U
FALCONER GLASS INDUSTRIES, INC.; FALCONER, NY					1181	3/16	(5.0)	TTG	U
1545	3/16	(5.0)	TTG	U	1182	1/4	(6.0)	TTG	U
709	1/4	(6.0)	TTG	U	GENEVA GLASS INDUSTRIES; GENEVA, IL				
1280	3/8	(10.0)	TTG	U	1499	1/8	(3.0)	TTG	U
711	1/2	(12.0)	TTG	U	1502	5/32	(4.0)	TTG	U
712	3/4	(19.0)	TTG	U	1500	3/16	(5.0)	TTG	U
FALCONER-LEWISTOWN, INC.; LEWISTOWN, PA					1501	1/4	(6.0)	TTG	U
				ANSI ONLY	1503	3/8	(10.0)	TTG	U
1282	7/32	(5.5)	LTG(.015)	U	1504	1/2	(12.0)	TTG	U
1284	1/4	(6.0)	LTG(.015)	U	THE GLASS FACTORY, INC.; RONKONKOMA, NY				
1315	3/8	(10.0)	LTG(.015)	U	1458	1/8	(3.0)	TTG	U
1316	1/2	(12.0)	LTG(.015)	U	1459	3/16	(5.0)	TTG	U
FLEX-O-GLASS, INC.; DIXON, IL					1460	1/4	(6.0)	TTG	U
118	0.080-inch through 0.125-inch smooth extruded acrylic			U	1461	1/2	(12.0)	TTG	U
FLORAL GLASS & MIRROR, INC.; HAUPPAUGE, NY					GLASS TEMPERING SERVICE, INC.; DETROIT, MI				
1546	1/8	(3.0)	TTG	U	1389	1/8	(3.0)	TTG	30" by 76"
1547	3/16	(5.0)	TTG	U	1238	1/4	(6.0)	TTG	U
1548	1/4	(6.0)	TTG	U	1340	3/16	(4.8)	TPG(S)	34" by 72"
1549	3/8	(10.0)	TTG	U	GLASSTEMP, INC.; BENSENVILLE, IL				
1550	1/2	(12.0)	TTG	U	1534	1/8	(3.0)	TTG	U
1551	3/4	(19.0)	TTG	U	1381	3/16	(5.0)	TTG	U
1552	1/8	(3.2)	TPG(S)	U	1382	1/4	(6.0)	TTG	U
1553	7/32	(5.6)	TPG(S)	U	1383	3/8	(10.0)	TTG	U
FRANKLIN GLASS DIVISION; FRANKLIN, TN					1384	1/2	(12.0)	TTG	U
1585	1/4	(6.0)	TTG	U	1536	3/8	(10.0)	TBG	U
					1533	1/2	(12.0)	TBG	U

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
GMG INDUSTRIES, INC.; CASSOPOLIS, MI					GUARDIAN INDUSTRIES CORP.; KINGSBURG, CA (CONT)				
1566	1/8	(3.0)	TTG	U	970	3/16	(5.0)	TTG	U
1567	3/16	(5.0)	TTG	U	971	1/4	(6.0)	TTG	U
1568	1/4	(6.0)	TTG	U	1303	1/8	(3.2)	TPG(S)	U
GOOD NEWS GLASS; SPRINGFIELD, MA					1304	3/16	(4.8)	TPG(S)	U
1539	1/8	(3.0)	TTG	U	1301	5/32	(4.0)	TPG(M)	U
1541	3/16	(5.0)	TTG	U	GUARDIAN INDUSTRIES CORP.; UPPER SANDUSKY, OH				
1542	1/4	(6.0)	TTG	U	ANSI ONLY				
1573	3/8	(10.0)	TTG	U	458	7/32	(5.5)	LTG(.030)	U
1544	3/16	(4.8)	TPG(S)	U	487	1/4	(6.0)	LTG(.030)	U
GUARDIAN FABRICATION, INC.; MILLBURY, OH					GUARDIAN INDUSTRIES CORP.; UPPER SANDUSKY, OH				
ANSI ONLY					1515	3/16	(5.0)	LTG(.030)	U
1574	1/8	(3.0)	TTG	U	GUARDIAN INDUSTRIES CORP.; TILLSONBURG, ONTARIO, CANADA				
1575	5/32	(4.0)	TTG	U	ANSI ONLY				
1576	3/16	(5.0)	TTG	U	1462	1/8	(3.0)	TTG	U
1577	1/4	(6.0)	TTG	U	HAMILTON GLASS PRODUCTS, INC.; VINCENNES, IN				
GUARDIAN FABRICATION, INC.; ROGERS, AR					54	1/8	(3.0)	TTG	U
1355	1/8	(3.0)	TTG	U	1385	5/32	(4.0)	TTG	U
1616	5/32	(4.0)	TTG	U	1200	3/16	(5.0)	TTG	U
1356	3/16	(5.0)	TTG	U	57	1/4	(6.0)	TTG	U
1357	1/4	(6.0)	TTG	U	1386	5/32	(4.0)	TPG(S)	U
1358	1/8	(3.2)	TPG(S)	U	1387	3/16	(4.8)	TPG(S)	U
1359	5/32	(4.0)	TPG(S)	U	HANKUK GLASS INDUSTRY, LTD.; SEOUL, KOREA				
1394	3/16	(4.8)	TPG(D)	U	ANSI ONLY				
GUARDIAN FABRICATION, INC.; WEBSTER, MA					1479	5/32	(4.0)	TTG	U
ANSI ONLY					1480	3/16	(5.0)	TTG	U
300	1/8	(3.0)	TTG	U	1413	1/4	(6.0)	TTG	U
1607	5/32	(4.0)	TTG	U	1481	5/16	(8.0)	TTG	U
1216	3/16	(5.0)	TTG	U	1482	3/8	(10.0)	TTG	U
662	1/4	(6.0)	TTG	U	1483	1/2	(12.0)	TTG	U
471	3/8	(10.0)	TTG	U	HAVLIN WITKIN CORPORATION; SANTA CLARA, CA				
1235	1/2	(12.0)	TTG	U	1494	3/16	(5.0)	TTG	U
GUARDIAN INDUSTRIES CORP.; CARLETON, MI					1496	1/4	(6.0)	TTG	U
ANSI ONLY					1497	3/8	(10.0)	TTG	U
933	1/8	(3.0)	TTG	U	1498	1/2	(12.0)	TTG	U
934	5/32	(4.0)	TTG	U	1495	7/32	(5.6)	TPG(S)	U
631	3/16	(5.0)	TTG	U	HEHR GLASS COMPANY; NEWTON, KS				
131	1/4	(6.0)	TTG	U	1492	1/8	(3.0)	TTG	U
GUARDIAN INDUSTRIES CORP.; CORSICANA, TX					1493	3/16	(5.0)	TTG	U
ANSI ONLY					1516	1/4	(6.0)	TTG	U
1248	1/8	(3.0)	TTG	U	1507	5/32	(4.0)	TPG(S)	U
1249	5/32	(4.0)	TTG	U	HEHR GLASS COMPANY; CHESANING, MI				
1250	3/16	(5.0)	TTG	U	ANSI ONLY				
1251	1/4	(6.0)	TTG	U	1646	5/32	(4.0)	TTG	U
1253	3/8	(10.0)	TTG	U	1602	5/32	(4.0)	TPG(S)	U
1463	1/8	(3.2)	TPG(S)	U	HEHR GLASS COMPANY; CHESANING, MI				
1464	7/32	(5.6)	TPG(S)	U	1062	1/8	(3.0)	TTG	U
GUARDIAN INDUSTRIES CORP.; FORT LAUDERDALE, FL					1510	3/16	(5.0)	TTG	U
ANSI ONLY					1517	1/4	(6.0)	TTG	U
1161	1/8	(3.0)	TTG	U	1514	1/8	(3.0)	TPG(S)	32" by 60"
633	3/16	(5.0)	TTG	U	HOFFER'S, INC.; SCHOFIELD, WI				
40	1/4	(6.0)	TTG	U	1595	1/8	(3.0)	TTG	32" x 75"
41	3/8	(10.0)	TTG	U	1596	3/16	(5.0)	TTG	32" x 75"
1004	1/2	(12.0)	TTG	U	1597	1/4	(6.0)	TTG	32" x 75"
1318	3/16	(4.8)	TPG(S)	U					
GUARDIAN INDUSTRIES CORP.; KINGSBURG, CA									
ANSI ONLY									
968	1/8	(3.0)	TTG	U					
969	5/32	(4.0)	TTG	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
HORDIS BROTHERS, INC.; WARRENTON, MO					PERMA*VIEW PROCESSED GLASS; CLARKSVILLE, TN				
1379	1/8	(3.0)	TTG	U	1505	1/8	(3.0)	TTG	U
1380	5/32	(4.0)	TTG	U	1506	3/16	(5.0)	TTG	U
1421	3/16	(5.0)	TTG	U	1554	1/4	(6.0)	TTG	U
1448	1/4	(6.0)	TTG	U	PPG INDUSTRIES, INC.; CARLISLE, PA				
HOWE-MARTZ GLASS COMPANY; DETROIT, MI					382	1/4	(6.0)	TTG	ANSI ONLY U
1265	5/32	(4.0)	TTG	U	PPG INDUSTRIES, INC.; CARLISLE, PA				
1266	3/16	(5.0)	TTG	U	250	1/8	(3.0)	TTG	U
1268	1/4	(6.0)	TTG	U	675	5/32	(4.0)	TTG	U
1269	3/8	(10.0)	TTG	U	249	3/16	(5.0)	TTG	U
1270	1/2	(12.0)	TTG	U	PPG INDUSTRIES, INC.; FORD CITY, PA				
1344	3/16	(4.8)	TPG(S)	U	70	1/4	(6.0)	TTG	U
INSULPANE, INC.; NEW WINDSOR, NY					PPG INDUSTRIES, INC.; FRESNO, CA				
1468	1/8	(3.0)	TTG	U	295	1/8	(3.0)	TTG	U
1469	3/16	(5.0)	TTG	U	676	5/32	(4.0)	TTG	U
1470	1/4	(6.0)	TTG	U	64	3/16	(5.0)	TTG	U
1471	3/8	(10.0)	TTG	U	PPG INDUSTRIES, INC.; BURLINGTON, IA				
1472	1/2	(12.0)	TTG	U	1605	1/8	(3.0)	TTG	U
1601	3/4	(19.0)	TTG	32" x 76"	1606	5/32	(4.0)	TTG	U
1473	7/32	(5.6)	TPG(S)	U	1603	3/16	(5.0)	TTG	U
LAMINATED GLASS CORPORTATION; PLYMOUTH MEETING, PA					1604	1/4	(6.0)	TTG	U
1652	1/4	(6.0)	LTG(.030)	U	PPG INDUSTRIES, INC.; MIAMI, FL				
MACDONALD MIRROR INC.; BRAMPTON, ONTARIO, CANADA					1067	3/8	(10.0)	TTG	ANSI ONLY U
1651	1/4	(6.0)	LTG(.030)	U	1336	1/2	(12.0)	TTG	U
MILGARD TEMPERING, INC.; TACOMA, WA					1298	3/16	(4.8)	TPG(S)	U
1578	1/4	(6.0)	TTG	U	PPG INDUSTRIES, INC.; MIAMI, FL				
NASHVILLE TEMPERED GLASS CORP.; NASHVILLE, TN					195	3/16	(5.0)	TTG	U
1416	1/8	(3.0)	TTG	U	194	1/4	(6.0)	TTG	U
1467	3/16	(5.0)	TTG	U	PPG INDUSTRIES, INC.; WICHITA FALLS, TX				
1417	1/4	(6.0)	TTG	U	1113	1/4	(6.0)	TTG	ANSI ONLY U
NORTHWESTERN INDUSTRIES, INC.; SEATTLE, WA					PPG INDUSTRIES, INC.; WICHITA FALLS, TX				
1638	3/16	(5.0)	TTG	U	1110	1/8	(3.0)	TTG	U
1639	1/4	(6.0)	TTG	U	1111	5/32	(4.0)	TTG	U
1640	3/16	(5.0)	LTG(.030)	U	1112	3/16	(5.0)	TTG	U
O & W GLASS INDUSTRIES, INC.; EVERETT, WA					SAFELITE GLASS CORPORATION; WICHITA, KS				
1429	1/8	(3.0)	TTG	U	1173	7/32	(5.5)	LTG(.015)	ANSI ONLY U
OPG INDUSTRIES, INC.; JEFFERSON, TX					SAFELITE GLASS CORPORATION; WICHITA, KS				
1388	1/8	(3.2)	TPG(M)	ANSI ONLY U	1360	3/16	(5.0)	LTG(.030)	U
OPG INDUSTRIES, INC.; JEFFERSON, TX					SAINT GOBAIN; THE NETHERLANDS				
1281	1/8	(3.0)	TTG	U	1393	1/4	(6.0)	TTG	ANSI ONLY U
1286	3/16	(5.0)	TTG	U	SHAW GLASS COMPANY, INC.; SOUTH EASTON, MA				
1287	1/4	(6.0)	TTG	U	1484	1/8	(3.0)	TTG	U
OPG INDUSTRIES, INC.; LEWISBURG, OH					1034	3/16	(5.0)	TTG	U
188	3/16	(4.8)	TPG(S)	ANSI ONLY U	1035	1/4	(6.0)	TTG	U
562	7/32	(5.6)	TPG(S)	U	1036	3/8	(10.0)	TTG	U
654	1/8	(3.2)	TPG(M)	U	1037	1/2	(12.0)	TTG	U
328	3/16	(4.8)	TPG(D)	U	OPG INDUSTRIES, INC.; LEWISBURG, OH				
OPG INDUSTRIES, INC.; LEWISBURG, OH					1050	1/8	(3.0)	TTG	U
1452	5/32	(4.0)	TTG	U	185	3/16	(5.0)	TTG	U
185	3/16	(5.0)	TTG	U	186	1/4	(6.0)	TTG	U
186	1/4	(6.0)	TTG	U	PAN LAM INDUSTRIES; BOTHELL, WA				
PAN LAM INDUSTRIES; BOTHELL, WA					1647	3/16	(5.0)	LTG	U

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
SHAW GLASS COMPANY, INC.; SOUTH EASTON, MA (CON'T)					TEMPERED GLASS CORPORATION; TAMPA, FL (CON'T)				
1299	3/16	(4.8)	TPG(S)	U	337	1/4	(6.0)	TTG	U
SOLAR SEAL SOUTH, INC.; ASHLAND, VA					348	3/8	(10.0)	TTG	U
1621	3/16	(5.0)	TTG	U	338	1/2	(12.0)	TTG	U
1622	1/4	(6.0)	TTG	U	1329	3/16	(4.8)	TPG(S)	U
SPECTRUM GLASS PRODUCTS; CLINTON, NC					1118	7/32	(5.6)	TPG(S)	U
				ANSI ONLY	TEMPERED GLASS, INC.; AUSTELL, GA				
1073	3/16	(5.0)	TTG	U					ANSI ONLY
1074	1/4	(6.0)	TTG	U	320	3/16	(5.0)	TTG	U
1075	5/16	(8.0)	TTG	U	321	1/4	(6.0)	TTG	U
1076	3/8	(10.0)	TTG	U	322	3/8	(10.0)	TTG	U
1077	1/2	(12.0)	TTG	U	323	1/2	(12.0)	TTG	U
SPECTRUM GLASS PRODUCTS; CLINTON, NC					TEMPERED GLASS, INC.; AUSTELL, GA				
				CPSC ONLY					CPSC ONLY
1080	3/16	(5.0)	TTG	U	862	3/16	(5.0)	TTG	U
1081	1/4	(6.0)	TTG	U	863	1/4	(6.0)	TTG	U
1082	5/16	(8.0)	TTG	U	865	3/8	(10.0)	TTG	U
1083	3/8	(10.0)	TTG	U	866	1/2	(12.0)	TTG	U
1084	1/2	(12.0)	TTG	U	TEMPERED GLASS INTERNATIONAL, INC.; UNION CITY, CA				
SUMITEC, INC.; BENTON HARBOR, MI									ANSI ONLY
				ANSI ONLY	1241	3/16	(5.0)	TTG	U
1441	7/32	(5.6)	LTG	U	1204	1/4	(6.0)	TTG	U
SUNBELT GLASS, INC.; TULSA, OK					482	3/8	(10.0)	TTG	U
1453	1/8	(3.0)	TTG	U	483	1/2	(12.0)	TTG	U
1454	3/16	(5.0)	TTG	U	TEMPERED GLASS INTERNATIONAL, INC.; UNION CITY, CA				
1455	1/4	(6.0)	TTG	U					CPSC ONLY
1456	3/8	(10.0)	TTG	U	879	3/16	(5.0)	TTG	U
1457	1/2	(12.0)	TTG	U	1205	1/4	(6.0)	TTG	U
1617	5/32	(4.0)	TPG(S)	U	881	3/8	(10.0)	TTG	U
1618	3/16	(4.8)	TPG(S)	U	882	1/2	(12.0)	TTG	U
SUNGLAS PRODUCTS, INC.; CLAREMORE, OK					TEMPGLASS, INC.; PERRYSBURG, OH				
				ANSI ONLY	1039	1/8	(3.0)	TTG	U
1361	5/32	(4.0)	TTG	U	592	3/16	(5.0)	TTG	U
1362	3/16	(5.0)	TTG	U	1420	1/4	(6.0)	TTG	U
1363	1/4	(6.0)	TTG	U	594	3/8	(10.0)	TTG	U
1374	3/8	(10.0)	TTG	U	595	1/2	(12.0)	TTG	U
SUNGLAS PRODUCTS, INC.; CLAREMORE, OK					TEMPGLASS EASTERN, INC.; BUFORD, GA				
				CPSC ONLY	979	1/8	(3.0)	TTG	U
1365	5/32	(4.0)	TTG	U	1259	5/32	(4.0)	TTG	U
1366	3/16	(5.0)	TTG	U	981	3/16	(5.0)	TTG	U
1367	1/4	(6.0)	TTG	U	982	1/4	(6.0)	TTG	U
1375	3/8	(10.0)	TTG	U	1058	3/8	(10.0)	TTG	U
SWIFT GLASS COMPANY, INC.; ELMIRA HEIGHTS, NY					1059	1/2	(12.0)	TTG	U
1555	1/8	(3.0)	TTG	U	1338	3/16	(4.8)	TPG(S)	U
1556	3/16	(5.0)	TTG	U	TEMPGLASS SOUTHERN, INC.; GRAND PRAIRIE, TX				
1557	1/4	(6.0)	TTG	U	1219	3/16	(5.0)	TTG	U
1558	3/8	(10.0)	TTG	U	1044	1/4	(6.0)	TTG	U
1559	1/2	(12.0)	TTG	U	1045	3/8	(10.0)	TTG	U
TAYLOR PRODUCTS, INC.; PAYNE, OH					1046	1/2	(12.0)	TTG	U
1586	1/8	(3.2)	TTG	U	1648	7/16	(11.0)	LTG(.059)	U
1587	5/32	(4.0)	TTG	U	1649	1/2	(12.0)	LTG(.031)	U
1588	3/16	(5.0)	TTG	U	1650	9/16	(13.0)	LTG(.060)	U
1589	1/4	(6.0)	TTG	U	TRACO (THREE RIVERS ALUM.); WARRENDALE, PA				
1598	3/8	(10.0)	TTG	U	1308	1/8	(3.0)	TTG	U
TEMP-TECH INDUSTRIES, INC.; CHICAGO, IL					1310	3/16	(5.0)	TTG	U
986	1/4	(6.0)	TTG	U	1311	1/4	(6.0)	TTG	U
TEMPERED GLASS CORPORATION; TAMPA, FL									
1395	3/16	(5.0)	TTG	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
VIDRIERIAS DE LLODIO, S.A.; ALAVA, SPAIN				
				CPSC ONLY
1445	3/16	(5.0)	TTG	U
1331	5/32	(4.0)	TPG(S)	U
VIRACON, INC.; OWATONNA, MN				
1476	1/8	(3.0)	TTG	U
1403	3/16	(5.0)	TTG	U
1404	1/4	(6.0)	TTG	U
1508	3/8	(10.0)	TTG	U
1509	1/2	(12.0)	TTG	U
1637	3/16	(5.0)	LTG(.030)	U
1636	3/16	(5.0)	LPG(.030)	U
VIRACON + INSOLAIR; VACAVILLE, CA				
1571	3/16	(5.0)	TTG	U
1572	1/4	(6.0)	TTG	U
VIRGINIA GLASS PRODUCTS CORP.; MARTINSVILLE, VA				
12	3/16	(5.0)	TTG	U
14	1/4	(6.0)	TTG	U
93	3/8	(10.0)	TTG	U
94	1/2	(12.0)	TTG	U
95	3/4	(19.0)	TTG	U
1275	3/16	(4.8)	TPG(S)	U

CERTIFIED PRODUCTS KEY

TTG = TEMPERED TRANSPARENT GLASS

TPG = TEMPERED PATTERNED GLASS

TBG = TEMPERED BENT GLASS

LTG = LAMINATED TRANSPARENT GLASS

LPG = LAMINATED PATTERNED GLASS

OCG = ORGANIC COATED GLASS

(S) = SHALLOW PATTERN

(M) = MEDIUM PATTERN

(D) = DEEP PATTERN

U = UNLIMITED SIZE

	<u>SGCC NO.</u>	<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS		
1/8 inch tempered transparent glass		
AFG Industries; Bridgeport, WV	1436	U
AFG Industries; Greenland, TN	598	U
AFG Industries; Kingsport, TN	1390	U
AFG Glass Inc; Concord, Ontario, Canada	1485	U
American Flat Glass Distrib; Fall River, MA	1518	U
American Flat Glass Distrib; Marietta, GA	1405	U
Anglass Industries; San Fernando, CA	520	ANSI ONLY U
Arch Tempered Glass; Orlando, FL	1526	ANSI ONLY U
Ardco, Inc; Chicago, IL	1041	U
The Chamberlain Group; Malvern, AR	586	U
Downey Glass Co; Los Angeles, CA	1608	ANSI ONLY U
Downey Glass Co; Los Angeles, CA	1612	CPSC ONLY U
Elgin Precision Glass Co; Elgin, IL	1369	U
Floral Glass & Mirror; Hauppauge, NY	1546	U
Free State Industries; Warrenton, VA	1590	U
Gemtron Corp; Sweetwater, TN	1334	U
Geneva Glass Industries; Geneva, IL	1499	U
The Glass Factory; Ronkonkoma, NY	1458	U
Glass Tempering Service; Detroit, MI	1389	30" by 76" U
Glasstemp, Inc.; Bensenville, IL	1534	U
GMG Industries, Inc.; Cassopolis, MI	1566	U
Good News Glass; Springfield, MA	1539	U
Guardian Fabrication; Millbury, OH	1574	ANSI ONLY U
Guardian Fabrication; Rogers, AR	1355	U
Guardian Fabrication; Webster, MA	300	ANSI ONLY U
Guardian Industries; Carleton, MI	933	ANSI ONLY U
Guardian Industries; Corsicana, TX	1248	ANSI ONLY U
Guardian Industries; Fort Lauderdale, FL	1161	ANSI ONLY U
Guardian Industries; Kingsburg, CA	968	ANSI ONLY U
Guardian Industries; Tillsonburg, Ontario, Canada	1462	ANSI ONLY U
Hamilton Glass Products; Vincennes, IN	54	U
Hehr Glass Co; Newton, KS	1492	U
Hehr Glass Co; Chesaning, MI	1062	U
Hoffer's, Inc.; Schofield, WI	1595	32" x 75" U
Hordis Brothers, Inc.; Warrenton, MD	1379	U
Insulpane, Inc; New Windsor, NY	1468	U
Nashville Tempered Glass; Nashville, TN	1416	U
O & W Glass Ind; Everett, WA	1429	U
OPG Industries; Jefferson, TX	1281	U
OPG Industries; Lewisburg, OH	1050	U
Perma*View Processed Glass; Clarksville, TN	1505	U
PPG Industries; Carlisle, PA	250	U
PPG Industries; Fresno, CA	295	U
PPG Industries; Burlington, IA	1605	U
PPG Industries; Wichita Falls, TX	1110	U
Shaw Glass Co Inc; South Easton, MA	1484	U
Sunbelt Glass, Inc; Tulsa, OK	1453	U
Swift Glass Co., Inc.; Elmira Heights, NY	1555	U
Tempglass, Inc; Perrysburg, OH	1039	U
Tempglass Eastern, Inc; Buford, GA	979	U
TRACO (Three Rivers Alum.); Warrendale, PA	1308	U
Viracon, Inc; Owatonna, MN	1476	U
Taylor Products, Inc.; Payne, OH	1586	U
5/32 inch tempered transparent glass		
AFG Industries; Bridgeport, WV	1624	U
AFG Industries; Victorville, CA	1641	U
AFG Industries; Greenland, TN	955	U
AFG Industries; Kingsport, TN	949	U
AFG Glass Inc; Concord, Ontario, Canada	1486	U
Ardco, Inc; Chicago, IL	1323	U

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

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
The Chamberlain Group; Malvern, AR	1376		U
Downey Glass Co; Los Angeles, CA	1609	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	1613	CPSC ONLY	U
Elgin Precision Glass Co; Elgin, IL	1370		U
Fulton Glass Inds; Red Oak, GA	1123	ANSI ONLY	U
Fulton Glass Inds; Red Oak, GA	1130	CPSC ONLY	U
Gemtron Corp; Sweetwater, TN	1332		U
General Glass Corp; Denver, CO	1180		U
Geneva Glass Industries; Geneva, IL	1502		U
Guardian Fabrication; Millbury, OH	1575	ANSI ONLY	U
Guardian Fabrication; Rogers, AR	1616		U
Guardian Fabrication; Webster, MA	1607	ANSI ONLY	U
Guardian Industries; Carleton, MI	934	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1249	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	969	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	1385		U
Hankuk Glass Ind; Seoul, Korea	1479	ANSI ONLY	U
Hehr Glass Co; Chesaning, MI	1646	ANSI ONLY	U
Hordis Brothers, Inc.; Warrenton, MO	1380		U
Howe-Martz Glass; Detroit, MI	1265		U
OPG Industries; Lewisburg, OH	1452		U
PPG Industries; Carlisle, PA	675		U
PPG Industries; Fresno, CA	676		U
PPG Industries; Burlington, IA	1606		U
PPG Industries; Wichita Falls, TX	1111		U
Sunglas Products; Claremore, OK	1361	ANSI ONLY	U
Sunglas Products; Claremore, OK	1365	CPSC ONLY	U
Taylor Products, Inc.; Payne, OH	1587		U
Tempglass Eastern, Inc; Buford, GA	1259		U

.169 inch tempered transparent glass

Gemtron Corp; Sweetwater, TN	1426		U
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3/16 inch tempered transparent glass

ACI Glass; Greensboro, NC	1642		U
ACI Glass; Santa Fe Springs, CA	1157		U
AFG Industries; Greenland, TN	220		U
AFG Industries; Kingsport, TN	28		U
AFG Glass Inc; Concord, Ontario, Canada	1487		U
American Flat Glass Distrib; Fall River, MA	1519		U
American Flat Glass Distrib; Marietta, GA	1230		U
Anglass Industries; San Fernando, CA	999	ANSI ONLY	U
Arch Tempered Glass; Orlando, FL	1527	ANSI ONLY	U
Ardco, Inc; Chicago, IL	1042		U
Binswanger/ACI Glass; Dallas, TX	400		U
The Chamberlain Group; Malvern, AR	1377		U
Chen's Tempered Glass; Kaohsiung Sheng, Taiwan, ROC	1619		U
Downey Glass Co; Los Angeles, CA	630	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	812	CPSC ONLY	U
Elgin Precision Glass Co; Elgin, IL	1371		U
Empire Glass, Inc; Bronx, NY	1398		U
Falconer Glass Industries; Falconer, NY	1545		U
Floral Glass & Mirror; Hauppauge, NY	1547		U
Free State Industries; Warrenton, VA	1591		U
Fulton Glass Inds; Red Oak, GA	1124	ANSI ONLY	U
Fulton Glass Inds; Red Oak, GA	1131	CPSC ONLY	U
Gemtron Corp; Sweetwater, TN	1201		U
General Glass Corp; Denver, CO	1181		U
Geneva Glass Industries; Geneva, IL	1500		U
The Glass Factory; Ronkonkoma, NY	1459		U
Glasstemp, Inc.; Bensenville, IL	1381		U
3MG Industries, Inc.; Cassopolis, MI	1567		U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS - continued			
3/16 inch tempered transparent glass - continued			
Good News Glass; Springfield, MA	1541		U
Guardian Fabrication; Millbury, OH	1576	ANSI ONLY	U
Guardian Fabrication; Rogers, AR	1356		U
Guardian Fabrication; Webster, MA	1216	ANSI ONLY	U
Guardian Industries; Carleton, MI	631	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1250	ANSI ONLY	U
Guardian Industries; Fort Lauderdale, FL	633	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	970	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	1200		U
Hankuk Glass Ind; Seoul, Korea	1480	ANSI ONLY	U
Havlin Witkin Corp; Santa Clara, CA	1494		U
Hehr Glass Co; Newton, KS	1493		U
Hehr Glass Co; Chesaning, MI	1510		U
Hoffer's, Inc.; Schofield, WI	1596		32" x 75"
Hordis Brothers, Inc.; Warrenton, MO	1421		U
Howe-Martz Glass; Detroit, MI	1266		U
Insulpane, Inc; New Windsor, NY	1469		U
Nashville Tempered Glass; Nashville, TN	1467		U
Northwestern Industries; Seattle, WA	1638		U
OPG Industries; Jefferson, TX	1286		U
OPG Industries; Lewisburg, OH	185		U
Perma*View Processed Glass; Clarksville, TN	1506		U
PPG Industries; Carlisle, PA	249		U
PPG Industries; Fresno, CA	64		U
PPG Industries; Burlington, IA	1603		U
PPG Industries; Miami, FL	195		U
PPG Industries; Wichita Falls, TX	1112		U
Shaw Glass Co Inc; South Easton, MA	1034		U
Solar Seal South; Ashland, VA	1621		U
Spectrum Glass Prods; Clinton, NC	1073	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1080	CPSC ONLY	U
Sunbelt Glass, Inc; Tulsa, OK	1454		U
Sunglas Products; Claremore, OK	1362	ANSI ONLY	U
Sunglas Products; Claremore, OK	1366	CPSC ONLY	U
Swift Glass Co., Inc.; Elmira Heights, NY	1556		U
Taylor Products, Inc.; Payne, OH	1588		U
Tempered Glass Corp; Tampa, FL	1395		U
Tempered Glass, Inc; Austell, GA	320	ANSI ONLY	U
Tempered Glass, Inc; Austell, GA	862	CPSC ONLY	U
Tempered Glass Int'l; Union City, CA	879	CPSC ONLY	U
Tempered Glass Int'l; Union City, CA	1241	ANSI ONLY	U
Tempglass, Inc; Perrysburg, OH	592		U
Tempglass Eastern, Inc; Buford, GA	981		U
Tempglass Southern, Inc; Grand Prairie, TX	1219		U
TRACO (Three Rivers Alum.); Warrendale, PA	1310		U
Vidrierias de Llodio; Alava, Spain	1445	CPSC ONLY	U
Viracon, Inc; Owatonna, MN	1403		U
Viracon + Insolair; Vacaville, CA	1571		U
Virginia Glass Products; Martinsville, VA	12		U
1/4 inch tempered transparent glass			
ACI Glass; Greensboro, NC	1643		U
ACI Glass; Santa Fe Springs, CA	1535		U
AFG Industries; Greenland, TN	89		U
AFG Industries; Kingsport, TN	24		U
AFG Glass Inc; Concord, Ontario, Canada	1489		U
American Flat Glass Distrib; Fall River, MA	1520		U
American Flat Glass Distrib; Marietta, GA	1231		U
Anglass Industries; San Fernando, CA	1000	ANSI ONLY	U
Arch Tempered Glass; Orlando, FL	1528	ANSI ONLY	U
Binswanger/ACI Glass; Dallas, TX	402		U
The Chamberlain Group; Malvern, AR	1378		U
Chen's Tempered Glass; Kaohsiung Sheng, Taiwan, ROC	1620		U

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

SGCC NO.MAX. SIZE
CERTIFIED

Colonial Mirror & Glass; Brooklyn, NY	1165		U
Downey Glass Co; Los Angeles, CA	514	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	813	CPSC ONLY	U
Elgin Precision Glass Co; Elgin, IL	1372		U
Empire Glass, Inc; Bronx, NY	1399		U
Falconer Glass Industries; Falconer, NY	709		U
Floral Glass & Mirror; Hauppauge, NY	1548		U
Franklin Glass Div; Franklin, TN	1585		U
Free State Industries; Warrenton, VA	1592		U
Fulton Glass Inds; Red Oak, GA	1125	ANSI ONLY	U
Fulton Glass Inds; Red Oak, GA	1132	CPSC ONLY	U
Gemtron Corp; Sweetwater, TN	1477		U
General Glass Corp; Denver, CO	1182		U
Geneva Glass Industries; Geneva, IL	1501		U
The Glass Factory; Ronkonkoma, NY	1460		U
Glass Tempering Service; Detroit, MI	1238		U
Glasstemp, Inc.; Bensenville, IL	1382		U
GMG Industries, Inc.; Cassopolis, MI	1568		U
Good News Glass; Springfield, MA	1542		U
Guardian Fabrication; Millbury, OH	1577	ANSI ONLY	U
Guardian Fabrication; Rogers, AR	1357		U
Guardian Fabrication; Webster, MA	662	ANSI ONLY	U
Guardian Industries; Carleton, MI	131	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1251	ANSI ONLY	U
Guardian Industries; Fort Lauderdale, FL	40	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	971	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	57		U
Hankuk Glass Ind; Seoul, Korea	1413	ANSI ONLY	U
Havlin Witkin Corp; Santa Clara, CA	1496		U
Hehr Glass Co; Newton, KS	1516		U
Hehr Glass Co; Chesaning, MI	1517		U
Hoffer's, Inc.; Schofield, WI	1597		U
Hordis Brothers, Inc.; Warrenton, MO	1448		32" x 75"
Howe-Martiz Glass; Detroit, MI	1268		U
Insulpane, Inc; New Windsor, NY	1470		U
Milgard Tempering Inc; Tacoma, WA	1578		U
Nashville Tempered Glass; Nashville, TN	1417		U
Northwestern Industries; Seattle, WA	1639		U
OPG Industries; Jefferson, TX	1287		U
OPG Industries; Lewisburg, OH	186		U
Perma*View Processed Glass; Clarksville, TN	1554		U
PPG Industries; Carlisle, PA	382	ANSI ONLY	U
PPG Industries; Ford City, PA	70		U
PPG Industries; Burlington, IA	1604		U
PPG Industries; Miami, FL	194		U
PPG Industries; Wichita Falls, TX	1113	ANSI ONLY	U
Saint Gobain; The Netherlands	1393	ANSI ONLY	U
Shaw Glass Co Inc; South Easton, MA	1035		U
Solar Seal South; Ashland, VA	1622		U
Spectrum Glass Prods; Clinton, NC	1074	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1081	CPSC ONLY	U
Sunbelt Glass, Inc; Tulsa, OK	1455		U
Sunglas Products; Claremore, OK	1363	ANSI ONLY	U
Sunglas Products; Claremore, OK	1367	CPSC ONLY	U
Swift Glass Co., Inc.; Elmira Heights, NY	1557		U
Taylor Products, Inc.; Payne, OH	1589		U
Temp-Tech Industries, Inc; Chicago, IL	986		U
Tempered Glass Corp; Tampa, FL	337		U
Tempered Glass, Inc; Austell, GA	321	ANSI ONLY	U
Tempered Glass, Inc; Austell, GA	863	CPSC ONLY	U
Tempered Glass Int'l; Union City, CA	1204	ANSI ONLY	U
Tempered Glass Int'l; Union City, CA	1205	CPSC ONLY	U
tempglass, Inc; Perrysburg, OH	1420		U
tempglass Eastern, Inc; Buford, GA	982		U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
TEMPERED TRANSPARENT GLASS - continued			
1/4 inch tempered transparent glass - continued			
Tempglass Southern, Inc; Grand Prairie, TX	1044		U
TRACO (Three Rivers Alum.); Warrendale, PA	1311		U
Viracon, Inc; Owatonna, MN	1404		U
Viracon + Insolair; Vacaville, CA	1572		U
Virginia Glass Products; Martinsville, VA	14		U
5/16 inch tempered transparent glass			
Hankuk Glass Ind; Seoul, Korea	1481	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1075	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1082	CPSC ONLY	U
3/8 inch tempered transparent glass			
ACI Glass; Greensboro, NC	1644		U
ACI Glass; Santa Fe Springs, CA	639		U
AFG Industries; Greenland, TN	90		U
American Flat Glass Distrib; Fall River, MA	1521		U
American Flat Glass Distrib; Marietta, GA	1232		U
Arch Tempered Glass; Orlando, FL	1529	ANSI ONLY	U
Binswanger/ACI Glass; Dallas, TX	1107	ANSI ONLY	U
Colonial Mirror & Glass; Brooklyn, NY	1166		U
Downey Glass Co; Los Angeles, CA	515	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	814	CPSC ONLY	U
Empire Glass, Inc; Bronx, NY	1400		U
Falconer Glass Industries; Falconer, NY	1280		U
Floral Glass & Mirror; Hauppauge, NY	1549		U
Free State Industries; Warrenton, VA	1593		U
Fulton Glass Inds; Red Oak, GA	1126	ANSI ONLY	U
Fulton Glass Inds; Red Oak, GA	1212	CPSC ONLY	U
Geneva Glass Industries; Geneva, IL	1503		U
Glasstemp, Inc.; Bensenville, IL	1383		U
Good News Glass; Springfield, MA	1573		U
Guardian Fabrication; Webster, MA	471	ANSI ONLY	U
Guardian Industries; Corsicana, TX	1253	ANSI ONLY	U
Guardian Industries; Fort Lauderdale, FL	41	ANSI ONLY	U
Hankuk Glass Ind; Seoul, Korea	1482	ANSI ONLY	U
Havlin Witkin Corp; Santa Clara, CA	1497		U
Howe-Martz Glass; Detroit, MI	1269		U
Insulpane, Inc; New Windsor, NY	1471		U
PPG Industries; Miami, FL	1067	ANSI ONLY	U
Shaw Glass Co Inc; South Easton, MA	1036		U
Spectrum Glass Prods; Clinton, NC	1076	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1083	CPSC ONLY	U
Sunbelt Glass, Inc; Tulsa, OK	1456		U
Sunglas Products; Claremore, OK	1374	ANSI ONLY	U
Sunglas Products; Claremore, OK	1375	CPSC ONLY	U
Swift Glass Co., Inc.; Elmira Heights, NY	1558		U
Taylor Products, Inc.; Payne, OH	1598		U
Tempered Glass Corp; Tampa, FL	348		U
Tempered Glass, Inc; Austell, GA	322	ANSI ONLY	U
Tempered Glass, Inc; Austell, GA	865	CPSC ONLY	U
Tempered Glass Int'l; Union City, CA	482	ANSI ONLY	U
Tempered Glass Int'l; Union City, CA	881	CPSC ONLY	U
Tempglass, Inc; Perrysburg, OH	594		U
Tempglass Eastern, Inc; Buford, GA	1058		U
Tempglass Southern, Inc; Grand Prairie, TX	1045		U
Viracon, Inc; Owatonna, MN	1508		U
Virginia Glass Products; Martinsville, VA	93		U
1/2 inch tempered transparent glass			
ACI Glass; Greensboro, NC	1645		U
ACI Glass; Santa Fe Springs, CA	640		U

TEMPERED TRANSPARENT GLASS - continued
1/2 inch tempered transparent glass - continued

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
American Flat Glass Distrib; Fall River, MA	1522		U
American Flat Glass Distrib; Marietta, GA	1406		U
Arch Tempered Glass; Orlando, FL	1530	ANSI ONLY	U
Binswanger/ACI Glass; Dallas, TX	1108	ANSI ONLY	U
Bogardus Wilson Ltd.; Winnipeg, Manitoba, CANADA	1525		U
Colonial Mirror & Glass; Brooklyn, NY	1167		U
Downey Glass Co; Los Angeles, CA	516	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	815	CPSC ONLY	U
Empire Glass, Inc; Bronx, NY	1401		U
Falconer Glass Industries; Falconer, NY	711		U
Floral Glass & Mirror; Hauppauge, NY	1550		U
Free State Industries; Warrenton, VA	1594		U
Fulton Glass Inds; Red Oak, GA	1127	ANSI ONLY	U
Fulton Glass Inds; Red Oak, GA	1134	CPSC ONLY	U
Geneva Glass Industries; Geneva, IL	1504		U
The Glass Factory; Ronkonkoma, NY	1461		U
Glasstemp, Inc.; Bensenville, IL	1384		U
Guardian Fabrication; Webster, MA	1235	ANSI ONLY	U
Guardian Industries; Fort Lauderdale, FL	1004	ANSI ONLY	U
Hankuk Glass Ind; Seoul, Korea	1483	ANSI ONLY	U
Havlin Witkin Corp; Santa Clara, CA	1498		U
Howe-Martz Glass; Detroit, MI	1270		U
Insulpane, Inc; New Windsor, NY	1472		U
PPG Industries; Miami, FL	1336	ANSI ONLY	U
Shaw Glass Co Inc; South Easton, MA	1037		U
Spectrum Glass Prods; Clinton, NC	1077	ANSI ONLY	U
Spectrum Glass Prods; Clinton, NC	1084	CPSC ONLY	U
Sunbelt Glass, Inc; Tulsa, OK	1457		U
Swift Glass Co., Inc.; Elmira Heights, NY	1559		U
Tempered Glass Corp; Tampa, FL	338		U
Tempered Glass, Inc; Austell, GA	323	ANSI ONLY	U
Tempered Glass, Inc; Austell, GA	866	CPSC ONLY	U
Tempered Glass Int'l; Union City, CA	483	ANSI ONLY	U
Tempered Glass Int'l; Union City, CA	882	CPSC ONLY	U
Tempglass, Inc; Perrysburg, OH	595		U
Tempglass Eastern, Inc; Buford, GA	1059		U
Tempglass Southern, Inc; Grand Prairie, TX	1046		U
Viracon, Inc; Owatonna, MN	1509		U
Virginia Glass Products; Martinsville, VA	94		U

3/4 inch tempered transparent glass

Binswanger/ACI Glass; Dallas, TX	1225	ANSI ONLY	U
Empire Glass, Inc; Bronx, NY	1402		U
Falconer Glass Industries; Falconer, NY	712		U
Floral Glass & Mirror; Hauppauge, NY	1551		U
Insulpane, Inc; New Windsor, NY	1601		32" x 76"
Virginia Glass Products; Martinsville, VA	95		U

TEMPERED PATTERNED GLASS

1/8 inch tempered patterned glass (shallow)

Arch Tempered Glass; Orlando, FL	1531	ANSI ONLY	U
Hehr Glass Co; Chesaning, MI	1514		32" by 60"
ACI Glass; Santa Fe Springs, CA	1226		U
AFG Industries; Greenland, TN	587		U
Downey Glass Co; Los Angeles, CA	1610	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	1614	CPSC ONLY	U
Floral Glass & Mirror; Hauppauge, NY	1552		U
Memtron Corp; Sweetwater, TN	1422		U
Guardian Fabrication; Rogers, AR	1358		U
Guardian Industries; Corsicana, TX	1463	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	1303	ANSI ONLY	U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
TEMPERED PATTERNED GLASS - continued			
1/8 inch tempered patterned glass (medium)			
AFG Industries; Kingsport, TN	1414		U
Downey Glass Co; Los Angeles, CA	1611	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	1615	CPSC ONLY	U
OPG Industries; Jefferson, TX	1388	ANSI ONLY	U
OPG Industries; Lewisburg, OH	654	ANSI ONLY	U
5/32 inch tempered patterned glass (shallow)			
American Flat Glass Distrib; Fall River, MA	1524		U
American Flat Glass Distrib; Marietta, GA	1428		U
Gemtron Corp; Sweetwater, TN	1424		U
Guardian Fabrication; Rogers, AR	1359		U
Hamilton Glass Products; Vincennes, IN	1386		U
Hehr Glass Co; Newton, KS	1507		U
Hehr Glass Co; Chesaning, MI	1602	ANSI ONLY	U
Sunbelt Glass, Inc; Tulsa, OK	1617		U
Vidrierias de Llodio; Alava, Spain	1331	CPSC ONLY	U
5/32 inch tempered patterned glass (medium)			
Guardian Industries; Kingsburg, CA	1301	ANSI ONLY	U
3/16 inch tempered patterned glass (shallow)			
AFG Industries; Greenland, TN	1139		U
AFG Industries; Kingsport, TN	1143		U
American Flat Glass Distrib; Fall River, MA	1523		U
American Flat Glass Distrib; Marietta, GA	1415		U
Arch Tempered Glass; Orlando, FL	1562	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	935	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	1114	CPSC ONLY	U
Fulton Glass Inds; Red Oak, GA	1326	ANSI ONLY	U
Fulton Glass Inds; Red Oak, GA	1327	CPSC ONLY	U
Glass Tempering Service; Detroit, MI	1340		34" by 72"
Good News Glass; Springfield, MA	1544		U
Guardian Industries; Fort Lauderdale, FL	1318	ANSI ONLY	U
Guardian Industries; Kingsburg, CA	1304	ANSI ONLY	U
Hamilton Glass Products; Vincennes, IN	1387		U
Howe-Martz Glass; Detroit, MI	1344		U
OPG Industries; Lewisburg, OH	188	ANSI ONLY	U
PPG Industries; Miami, FL	1298	ANSI ONLY	U
Shaw Glass Co Inc; South Easton, MA	1299		U
Sunbelt Glass, Inc; Tulsa, OK	1618		U
Tempered Glass Corp; Tampa, FL	1329		U
Tempglass Eastern, Inc; Buford, GA	1338		U
Virginia Glass Products; Martinsville, VA	1275		U
3/16 inch tempered patterned glass (deep)			
Guardian Fabrication; Rogers, AR	1394		U
OPG Industries; Lewisburg, OH	328	ANSI ONLY	U
7/32 inch tempered patterned glass (shallow)			
Downey Glass Co; Los Angeles, CA	678	ANSI ONLY	U
Downey Glass Co; Los Angeles, CA	817	CPSC ONLY	U
Floral Glass & Mirror; Hauppauge, NY	1553		U
Guardian Industries; Corsicana, TX	1464	ANSI ONLY	U
Havlin Witkin Corp; Santa Clara, CA	1495		U
Insulpane, Inc; New Windsor, NY	1473		U
OPG Industries; Lewisburg, OH	562	ANSI ONLY	U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
TEMPERED PATTERNED GLASS - continued			
7/32 inch tempered patterned glass (shallow) - continued			
Tempered Glass Corp; Tampa, FL	1118		U
LAMINATED TRANSPARENT GLASS			
3/16 inch laminated transparent glass			
Guardian Industries; Upper Sandusky, OH	1515		U
Northwestern Industries; Seattle, WA	1640		U
Pan Lam Industries; Bothell, WA	1647		U
Safelite Glass Corp; Wichita, KS	1360		U
Viracon, Inc; Owatonna, MN	1637		U
7/32 inch laminated transparent glass			
Falconer-Lewistown; Lewistown, PA	1282	ANSI ONLY	U
Guardian Industries; Upper Sandusky, OH	458	ANSI ONLY	U
Safelite Glass Corp; Wichita, KS	1173	ANSI ONLY	U
Sumitec, Inc.; Benton Harbor, MI	1441	ANSI ONLY	U
1/4 inch laminated transparent glass			
Central Glass & Window; Pinellas Park, FL	1599	ANSI ONLY	U
Dependable Glass; Miami, FL	1625	ANSI ONLY	U
Falconer-Lewistown; Lewistown, PA	1284	ANSI ONLY	U
Guardian Industries; Upper Sandusky, OH	487	ANSI ONLY	U
Laminated Glass Corp.; Plymouth Meeting, PA	1652		U
Macdonald Mirror; Brampton, Ontario, CANADA	1651		U
3/8 inch laminated transparent glass			
Falconer-Lewistown; Lewistown, PA	1315	ANSI ONLY	U
7/16 inch laminated transparent glass			
Tempglass Southern, Inc; Grand Prairie, TX	1648		U
1/2 inch laminated transparent glass			
Central Glass & Window; Pinellas Park, FL	1600	ANSI ONLY	U
Dependable Glass; Miami, FL	1626	ANSI ONLY	U
Falconer-Lewistown; Lewistown, PA	1316	ANSI ONLY	U
Tempglass Southern, Inc; Grand Prairie, TX	1649		U
9/16 inch laminated transparent glass			
Tempglass Southern, Inc; Grand Prairie, TX	1650		U
LAMINATED PATTERNED GLASS			
3/16 inch laminated patterned glass (shallow)			
Viracon, Inc; Owatonna, MN	1636		U
SAFETY PLASTIC SHEET			
.080 inch through 0.125 inch acrylic			
Flex-O-Glass, Inc; Dixon, IL	118		U
ORGANIC COATED GLASS			
1/8 inch organic coated glass			
Air Seal IG Units Co; Gloucester City, NJ	1511		U

<u>SGCC NO.</u>	<u>MAX. SIZE CERTIFIED</u>
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ORGANIC COATED GLASS - continued
3/16 inch organic coated glass

Air Seal IG Units Co; Gloucester City, NJ

1512

U

1/4 inch organic coated glass

Air Seal IG Units Co; Gloucester City, NJ

1513

U

TEMPERED BENT GLASS
5/32 inch Tempered Bent Glass

Ardco, Inc; Chicago, IL

1563

U

3/16 inch Tempered Bent Glass

Ardco, Inc; Chicago, IL

1564

U

1/4 inch Tempered Bent Glass

Ardco, Inc; Chicago, IL

1565

U

3/8 inch Tempered Bent Glass

Glasstemp, Inc.; Bensenville, IL

1536

U

1/2 inch Tempered Bent Glass

Glasstemp, Inc.; Bensenville, IL

1533

U

ACI GLASS

2710 Patterson Street
Greensboro, NC 27407

AFGD

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

AIR SEAL INSULATING GLASS UNITS CO

522 Powell Street
Gloucester City, NJ 08030

AIR SEAL

16 CFR 1201-I
ANSI Z97.1-1984
SGCC 1512 3/16U

ACI GLASS PRODUCTS, INC.

9010 South Norwalk Blvd.
Santa Fe Springs, CA 90670



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

AMERICAN FLAT GLASS DISTRIBUTORS

3200 Austell Road
Marietta, GA 30060

AFG INDUSTRIES, INC.

P.O. Box 929
Kingsport, TN 37662



TEMPERED
16 CFR 1201-C II
ANSI Z97.1 1984
1/8U SGCC-1390
AFG 006
BS 5206A

ANGLASS INDUSTRIES, INC.

12364 Gladstone Avenue
San Fernando, CA 91342

TEMPERED
SAFETY GLASS



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

AFG GLASS, INC.

75 Doney Crescent
Concord, Ontario L4K 1P6
CANADA



TEMPERED/TREMPÉ
ANSI Z97.1 — 1984
16 CFR 1201 II
SGCC 1488 7/32 U
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CAN 2 12.18A
DOT 163 MO6

ARCH TEMPERED GLASS PRODUCTS

3320 Maggie Blvd.
Orlando, FL 32811

ARDCO, INC

12400 South Laramie Avenue
Chicago, IL 60658

Ardco TemperBent

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

THE CHAMBERLAIN GROUP, INC.

P.O. Box H
Hot Springs, AR 71902

CHAMBERLAIN

TEMPERED SAFETY GLASS
MALVERN, ARKANSAS
16CFR 1201 II
ANSI Z97.1-1984
SGCC-1377 3/16U

BINSWANGER/ACI GLASS

12900 Nicholson Road
PO Box 815547
Dallas, TX 75381

CHEN'S TEMPERED GLASS CORP.

No. 329-11 Fon-Jen Road
Jen-Wu Hsiang
Kaohsiung Sheng
Taiwan, R.O.C.

BOGARDUS WILSON LTD.

121 Plymouth St
Winnipeg, Manitoba R2X 2T3
CANADA

COLONIAL MIRROR AND GLASS CORP.

142 19th Street
Brooklyn, NY 11232

colonial mirror & glass corp.

Glas Steel Tempered Safety Glass
ANSI Z97.1-1984
16 CFR 1201-II SGCC-1167 1/2U

CENTRAL GLASS & WINDOW, INC.

8600 - 66th Street North
Pinellas Park, FL 34666-4526

DEPENDABLE GLASS & MIRROR OF MIAMI

6767 N. E. 4th Avenue
Miami, FL 33138

DOWNEY GLASS COMPANY
5631 Ferguson Drive
Los Angeles, CA 90022

ful-temp

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

FALCONER-LEWISTOWN, INC.
One Belle Avenue
Lewistown, PA 17044

FALCONER
Safeco

LAMINATED
ANSI Z97.1-1984
SGCC #1284 1/4U
1-85

ELGIN PRECISION GLASS COMPANY, INC
1900 Holmes Road
Elgin, IL 60123

EPG
ANSI Z97.1-1984
16 CFR 1201 C11
SGCC-1370 5/32U

FLEX-O-GLASS, INC.
1100 North Cicero Avenue
Chicago, IL 60651

Warpz®

FLEX-O-GLAZE™
ACRYLIC SAFETY GLAZING
16 CFR 1201 C11 100U
ANSI Z97.1-84 SGCC-118

EMPIRE GLASS, INC.
608 East 133rd Street
Bronx, NY 10454

EMPIRE GLASS INC.
EGI - SAFGLAS
"ANSI Z 97.1 - 1984"
16 CFR 1201 II
SGCC - 1401 ½ - U

FLORAL GLASS & MIRROR, INC.
895 Motor Parkway
Hauppauge, NY 11788

FALCONER GLASS INDUSTRIES, INC.
500 South Work Street
Falconer, NY 14733

FRANKLIN GLASS DIVISION
c/o FGP Industries, Inc.
306 Beasley Drive
Franklin, TN 37064

FALCONER GLASS IND., INC.
DURASAFE 1 4" U
TEMPERED SAFETY GLASS
ANSI Z97.1-1984
16 CFR 1201 C11 SGCC 709

FREE STATE INDUSTRIES

Route 6
Box 302
warrenton, VA 22186

GENEVA GLASS INDUSTRIES

2535 Kaneville Road
PO Box 541
Geneva, IL 60134

FULTON GLASS INDUSTRIES, INC.

5225 Welcome All Road
Red Oak, GA 30272

FULTONTEMP
SGCC H34 1/2" U
16 CFR 1201-IL
SGCC H27
ANSI Z97.1 1984

THE GLASS FACTORY, INC.

5012 Expressway Drive, South
Ronkonkoma, NY 11779

**GEMTRON CORPORATION**

New Highway 68
P.O. Box 416
Sweetwater, TN 37874

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

GLASS TEMPERING SERVICE, INC.

14285 Wyoming Street
Detroit, MI 48238

gts

SAFETY TEMPERED
ANSI Z97.1-1984

16 CFR 1201 II
SGCC-1238 1/4 L

GENERAL GLASS CORPORATION

P.O. Box 390711
Denver, CO 80238-1711

**GENERAL GLASS CORP.**

FLATTEMP™
DENVER

3/16"U SGCC-1181
ANSI Z97.1-1984 16CFR1201-I,II

GLASSTEMP, INC.

1001 Foster Avenue
Bensenville, IL 60106

GLASSTEMP

ANSI Z97.1-1984
16 CFR 1201C II
SGCC-1382
1/4"U 69

GMG INDUSTRIES, INC.

803 Wolfe Avenue
PO Box 248
Cassopolis, MI 49031

HAMILTON GLASS PRODUCTS, INC.

2000 Chestnut Street
P.O. Box 317
Vincennes, IN 47591

TEMPER-TUF

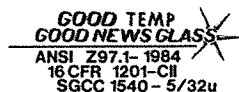
HAMILTON GLASS
VINCENNES IN
ANSI Z97.1-1984
1/8 U SGCC-54
16 CFR 1201 C II

GOOD NEWS GLASS

3640 Main Street
Springfield, MA 01107

HANKUK GLASS INDUSTRY, LTD.

451 Yeo Ui Do-Dong
Young Deung Po-Ku
Seoul, KOREA 150



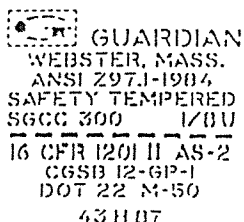
ANSI Z97.1-1984
SGCC-1413 1/4U

GUARDIAN FABRICATION, INC.

43043 West Nine Mile Road
Northville, MI 48167

HAVLIN WITKIN CORPORATION

Div. of ACI Glass Products
750 Walsh Avenue
Santa Clara, CA 95050



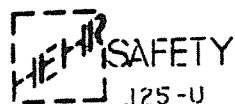
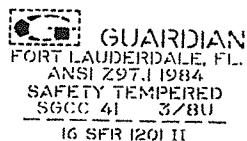
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ANSI Z97.1-1984
SGCC 149/ 3/8 U

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New Windsor, NY 12550

HOFFER'S, INC.
Glass Fabricating Division
5103 Janice Avenue
Schofield, WI 54476


LAMINATED GLASS CORPORATION
525 Plymouth Rd
Suite 310
Plymouth Meeting, PA 19462

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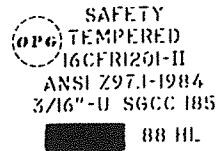
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Detroit, MI 48227

MACDONALD MIRROR INC.
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Brampton, Ontario L6T 3W4
CANADA

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SGCC 1269


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Tacoma, WA 98411-0368

OPG INDUSTRIES, INC.
West National Road
PO Box 669
Lewisburg, OH 45338



NASHVILLE TEMPERED GLASS CORP.
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Nashville, TN 37210

PAN LAM INDUSTRIES
1706 196th S. E.
Bothell, WA 98012

N_TG_C 
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2501 West Commodore Way
Seattle, WA 98199

PERMA*VIEW PROCESSED GLASS
157 Airport Road
PO Box 2219
Clarksville, TN 37042-2219

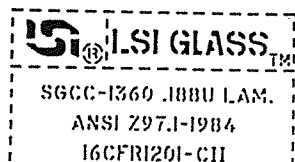
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1020 10th Street
Everett, WA 98201

PPG INDUSTRIES, INC.
1000 RIDC Plaza
PO Box 2811
Pittsburgh, PA 15230

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ANSI Z-97.1-1984 1/4U
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1984

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SOLAR TEMP.
16 CFR 1201 11

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Tulsa, OK 74145

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16 CFR 1201 CII
SGCC-1453 1/8 U

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Elmira Heights, NY 14903

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7160 Delta Circle
Austell, GA 30001

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- SGCC-321 SGCC-863 •

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North Laura Street
PO Box 77
Payne, OH 45880

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Union City, CA 94587

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- TEMPERED SAFETY GLASS •
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- SGCC-1204 SGCC-1205 •

TEMP-TECH INDUSTRIES, INC.
6166 South Sayre
Chicago, IL 60638

TEMPGLASS, INC.
Ampoint
291 M Street
Perrysburg, OH 43551

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

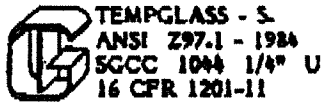
TEMPERED GLASS CORPORATION
6900 Adamo Drive
Tampa, FL 33619

TEMPGLASS EASTERN, INC.
600 Heraeus Blvd.
Buford, GA 30518

TEMCO
SGCC-337 .250U
16 CFR 1201-II
ANSI Z97.1 1984

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

TEMPGLASS SOUTHERN, INC.
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Grand Prairie, TX 75050



VIRACON + INSOLAIR
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Vacaville, CA 95688

VIRACON
INSOLAIR
TEMPERED
16 CFR 1201.11
ANSI Z97.1 1984
SGCC 1572 1/4 U

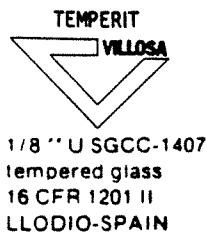
TRACO (THREE RIVERS ALUM.)
Cranberry Industrial Park
P.O. Box 805
Warrendale, PA 15095



VIRGINIA GLASS PRODUCTS CORP.
P.O. Box 5431
Martinsville, VA 24115



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c/o Guardian Industries Corp.
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Northville, MI 48167



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800 Park Drive
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Owatonna, MN 55060

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ANSI Z97.1 1984
1 85

"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
1430 Broadway
New York, NY 10018

"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
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safety glazing certification council

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Industrial Park - Route 11

Cortland, New York 13045-0950

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Telephone: 717-846-7700

Bowser-Morner, Inc.
420 Davis Avenue; Box 51
Dayton, OH 45401
Attention: Mr. Robert J. Rosencrans
Telephone: 513-253-8805

Construction Consulting Laboratory, Inc.
Western Division
4749 West State Street -- Bldg. H
Ontario, CA 91762
Attention: Mr. Ray Charland
Telephone: 174-591-1789

ETL Testing Laboratories, Inc.
5855-P Oakbrook Parkway
Norcross, GA 30093
Attention: Mr. William D. Penuel
Telephone: 404-446-7294

ETL Testing Laboratories, Inc.
Industrial Park - 3933 U.S. Rt. 11
Cortland, NY 13045-0950
Attention: Mr. Claude F. Robb
Telephone: 607-753-6711

Miami Testing Laboratory, Inc.
1640 West 32nd Place
Hialeah, FL 33012-4585
Attention: Mr. James W. Bailey
Telephone: 305-822-1141

Northwest Laboratories
1530 First Avenue South
Seattle, WA 98134
Attention: Mr. Alan J. Potter
Telephone: 206-622-0680

Patzig Testing Laboratories Company, Inc.
3922 Delaware Avenue
Des Moines, IA 50313
Attention: Mr. Byron A. Marks, P.E.
Telephone: 515-266-5101

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Fort Worth, TX 76101-1379
Attention: Mr. Wayne Tessener
Telephone: 817-284-7755

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5555 Telegraph Road
Los Angeles, CA 90040
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