

safety glazing certification council

JULY 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

Carlo Carmen, Jr. - 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.	John M. Spiro	David Carrizales	
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.	Robert A. Moss		
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		
Guardian Fabrication, Inc.	Lawana Morrison	Henry A. Gorry	R. L. Alonzo
Guardian Industries Corp.	Lawana Morrison	Henry A. Gorry	R. L. Alonzo
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.	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	
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	
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

## Member by virtue of being a director:

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
Richard E. Wright Associates	Richard E. Wright

## 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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SGCC Certification Committee  
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Mr. John G. Kent  
Administrative Manager  
ETL Testing Laboratories, Inc.  
Industrial Park 3933 US Route 11  
PO Box 2040  
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 langleys (375 plus or minus 10 kilo-calories per square centimeter) or irradiation. Evaluate the test results by using the test criteria set forth in the Standard at section 1201.4(e)(2)(ii)(A) or (B), as appropriate.

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

## PE.2 (ANSI ONLY)

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

## PE.3

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

## PE.4

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

## PLASTICS - INDOOR USE ONLY

## PI.1 (ANSI ONLY)

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

## PI.1 (CPSC ONLY)

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

## PI.2

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

## PI.3

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



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

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

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

**LG.2**

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

- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1984 for each alternate size diamond proposed.

- c) The certification committee is provided with a 6 by 6 inch or a proper and representative sample of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.

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

**LG.3**

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

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

**ORGANIC COATED GLASS****AG.1**

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

**AG.2**

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

**(ANSI ONLY)**

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

## SGCC LABEL REQUIREMENTS

## GENERAL

Unless the SGCC certification label is permanently affixed to each piece of safety glazing material, it is not covered by the SGCC certification program. The 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 PATTERNS1/8 inch shallow

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

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
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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) Spotswood				

210 inch medium

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

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

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

7/32 inch medium

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

(29) Lozenge	(53) Boardlite
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<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
12 Virginia Glass Products	639 ACI Glass	1080 Spectrum Glass Prods - CPSC
14 Virginia Glass Products	640 ACI Glass	1081 Spectrum Glass Prods - CPSC
24 AFG Industries	654 OPG Industries - ANSI	1082 Spectrum Glass Prods - CPSC
28 AFG Industries	662 Guardian Fabrication - ANSI	1083 Spectrum Glass Prods - CPSC
40 Guardian Industries - ANSI	675 PPG Industries	1084 Spectrum Glass Prods - CPSC
41 Guardian Industries - ANSI	676 PPG Industries	1107 Binswanger/ACI Glass - ANSI
54 Hamilton Glass Products	678 Downey Glass Co - ANSI	1108 Binswanger/ACI Glass - ANSI
57 Hamilton Glass Products	709 Falconer Glass Industries	1110 PPG Industries
64 PPG Industries	711 Falconer Glass Industries	1111 PPG Industries
70 PPG Industries	712 Falconer Glass Industries	1112 PPG Industries
89 AFG Industries	812 Downey Glass Co - CPSC	1113 PPG Industries - ANSI
90 AFG Industries	813 Downey Glass Co - CPSC	1114 Downey Glass Co - CPSC
93 Virginia Glass Products	814 Downey Glass Co - CPSC	1118 Tempered Glass Corp
94 Virginia Glass Products	815 Downey Glass Co - CPSC	1123 Fulton Glass Inds - ANSI
95 Virginia Glass Products	817 Downey Glass Co - CPSC	1124 Fulton Glass Inds - ANSI
118 Flex-O-Glass, Inc	862 Tempered Glass, Inc - CPSC	1125 Fulton Glass Inds - ANSI
131 Guardian Industries - ANSI	863 Tempered Glass, Inc - CPSC	1126 Fulton Glass Inds - ANSI
185 OPG Industries	865 Tempered Glass, Inc - CPSC	1127 Fulton Glass Inds - ANSI
186 OPG Industries	866 Tempered Glass, Inc - CPSC	1130 Fulton Glass Inds - CPSC
188 OPG Industries - ANSI	933 Guardian Industries - ANSI	1131 Fulton Glass Inds - CPSC
194 PPG Industries	934 Guardian Industries - ANSI	1132 Fulton Glass Inds - CPSC
195 PPG Industries	935 Downey Glass Co - ANSI	1134 Fulton Glass Inds - CPSC
220 AFG Industries	949 AFG Industries	1139 AFG Industries
249 PPG Industries	955 AFG Industries	1143 AFG Industries
250 PPG Industries	968 Guardian Industries - ANSI	1157 ACI Glass
295 PPG Industries	969 Guardian Industries - ANSI	1161 Guardian Industries - ANSI
300 Guardian Fabrication - ANSI	970 Guardian Industries - ANSI	1165 Colonial Mirror & Glass
320 Tempered Glass, Inc - ANSI	971 Guardian Industries - ANSI	1166 Colonial Mirror & Glass
321 Tempered Glass, Inc - ANSI	979 Tempglass Eastern, Inc	1167 Colonial Mirror & Glass
322 Tempered Glass, Inc - ANSI	981 Tempglass Eastern, Inc	1173 Safelite Glass Corp - ANSI
323 Tempered Glass, Inc - ANSI	982 Tempglass Eastern, Inc	1180 General Glass Corp
328 OPG Industries - ANSI	986 Temp-Tech Industries, Inc	1181 General Glass Corp
337 Tempered Glass Corp	999 Anglass Industries - ANSI	1182 General Glass Corp
338 Tempered Glass Corp	1000 Anglass Industries - ANSI	1200 Hamilton Glass Products
348 Tempered Glass Corp	1004 Guardian Industries - ANSI	1201 Gemtron Corp
382 PPG Industries - ANSI	1034 Shaw Glass Co Inc	1212 Fulton Glass Inds - CPSC
400 Binswanger/ACI Glass	1035 Shaw Glass Co Inc	1216 Guardian Fabrication - ANSI
402 Binswanger/ACI Glass	1036 Shaw Glass Co Inc	1219 Tempglass Southern, Inc
458 Guardian Industries - ANSI	1037 Shaw Glass Co Inc	1225 Binswanger/ACI Glass - ANSI
471 Guardian Fabrication - ANSI	1039 Tempglass, Inc	1226 ACI Glass
487 Guardian Industries - ANSI	1041 Ardco, Inc	1230 American Flat Glass Distrib
514 Downey Glass Co - ANSI	1042 Ardco, Inc	1231 American Flat Glass Distrib
515 Downey Glass Co - ANSI	1044 Tempglass Southern, Inc	1232 American Flat Glass Distrib
516 Downey Glass Co - ANSI	1045 Tempglass Southern, Inc	1235 Guardian Fabrication - ANSI
520 Anglass Industries - ANSI	1046 Tempglass Southern, Inc	1238 Glass Tempering Service
562 OPG Industries - ANSI	1050 OPG Industries	1248 Guardian Industries - ANSI
586 The Chamberlain Group	1058 Tempglass Eastern, Inc	1249 Guardian Industries - ANSI
587 AFG Industries	1059 Tempglass Eastern, Inc	1250 Guardian Industries - ANSI
592 Tempglass, Inc	1062 Hehr Glass Co	1251 Guardian Industries - ANSI
594 Tempglass, Inc	1067 PPG Industries - ANSI	1253 Guardian Industries - ANSI
595 Tempglass, Inc	1073 Spectrum Glass Prods - ANSI	1259 Tempglass Eastern, Inc
598 AFG Industries	1074 Spectrum Glass Prods - ANSI	1265 Howe-Martzt Glass
630 Downey Glass Co - ANSI	1075 Spectrum Glass Prods - ANSI	1266 Howe-Martzt Glass
631 Guardian Industries - ANSI	1076 Spectrum Glass Prods - ANSI	1268 Howe-Martzt Glass
633 Guardian Industries - ANSI	1077 Spectrum Glass Prods - ANSI	1269 Howe-Martzt Glass

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
1270 Howe-Martzt Glass	1388 OPG Industries - ANSI	1482 Hankuk Glass Ind - ANSI
1275 Virginia Glass Products	1389 Glass Tempering Service	1483 Hankuk Glass Ind - ANSI
1280 Falconer Glass Industries	1390 AFG Industries	1484 Shaw Glass Co Inc
1281 OPG Industries	1393 Saint Gobain - ANSI	1485 AFG Glass Inc
1282 Falconer-Lewistown - ANSI	1394 Guardian Fabrication	1486 AFG Glass Inc
1284 Falconer-Lewistown - ANSI	1395 Tempered Glass Corp	1487 AFG Glass Inc
1286 OPG Industries	1398 Empire Glass, Inc	1489 AFG Glass Inc
1287 OPG Industries	1399 Empire Glass, Inc	1492 Hehr Glass Co
1298 PPG Industries - ANSI	1400 Empire Glass, Inc	1493 Hehr Glass Co
1299 Shaw Glass Co Inc	1401 Empire Glass, Inc	1494 Havlin Witkin Corp
1301 Guardian Industries - ANSI	1402 Empire Glass, Inc	1495 Havlin Witkin Corp
1303 Guardian Industries - ANSI	1403 Viracon, Inc	1496 Havlin Witkin Corp
1304 Guardian Industries - ANSI	1404 Viracon, Inc	1497 Havlin Witkin Corp
1308 TRACO (Three Rivers Alum.)	1405 American Flat Glass Distrib	1498 Havlin Witkin Corp
1310 TRACO (Three Rivers Alum.)	1406 American Flat Glass Distrib	1499 Geneva Glass Industries
1311 TRACO (Three Rivers Alum.)	1413 Hankuk Glass Ind - ANSI	1500 Geneva Glass Industries
1315 Falconer-Lewistown - ANSI	1414 AFG Industries	1501 Geneva Glass Industries
1316 Falconer-Lewistown - ANSI	1415 American Flat Glass Distrib	1502 Geneva Glass Industries
1318 Guardian Industries - ANSI	1416 Nashville Tempered Glass	1503 Geneva Glass Industries
1323 Ardco, Inc	1417 Nashville Tempered Glass	1504 Geneva Glass Industries
1326 Fulton Glass Inds - ANSI	1420 Tempglass, Inc	1505 Perma*View Processed Glass
1327 Fulton Glass Inds - CPSC	1421 Hordis Brothers, Inc.	1506 Perma*View Processed Glass
1329 Tempered Glass Corp	1422 Gemtron Corp	1507 Hehr Glass Co
1332 Gemtron Corp	1424 Gemtron Corp	1508 Viracon, Inc
1334 Gemtron Corp	1426 Gemtron Corp	1509 Viracon, Inc
1336 PPG Industries - ANSI	1428 American Flat Glass Distrib	1510 Hehr Glass Co
1338 Tempglass Eastern, Inc	1429 O & W Glass Ind	1511 Air Seal IG Units Co
1340 Glass Tempering Service	1436 AFG Industries	1512 Air Seal IG Units Co
1344 Howe-Martzt Glass	1441 Sumitec, Inc. - ANSI	1513 Air Seal IG Units Co
1355 Guardian Fabrication	1448 Hordis Brothers, Inc.	1514 Hehr Glass Co
1356 Guardian Fabrication	1452 OPG Industries	1515 Guardian Industries
1357 Guardian Fabrication	1453 Sunbelt Glass, Inc	1516 Hehr Glass Co
1358 Guardian Fabrication	1454 Sunbelt Glass, Inc	1517 Hehr Glass Co
1359 Guardian Fabrication	1455 Sunbelt Glass, Inc	1518 American Flat Glass Distrib
1360 Safelite Glass Corp	1456 Sunbelt Glass, Inc	1519 American Flat Glass Distrib
1361 Sunglas Products	1457 Sunbelt Glass, Inc	1520 American Flat Glass Distrib
1362 Sunglas Products	1458 The Glass Factory	1521 American Flat Glass Distrib
1363 Sunglas Products	1459 The Glass Factory	1522 American Flat Glass Distrib
1369 Elgin Precision Glass Co	1460 The Glass Factory	1523 American Flat Glass Distrib
1370 Elgin Precision Glass Co	1461 The Glass Factory	1524 American Flat Glass Distrib
1371 Elgin Precision Glass Co	1462 Guardian Industries - ANSI	1525 Bogardus Wilson Ltd.
1372 Elgin Precision Glass Co	1463 Guardian Industries - ANSI	1526 Arch Tempered Glass - ANSI
1374 Sunglas Products	1464 Guardian Industries - ANSI	1527 Arch Tempered Glass - ANSI
1376 The Chamberlain Group	1467 Nashville Tempered Glass	1528 Arch Tempered Glass - ANSI
1377 The Chamberlain Group	1468 Boss Glass Ind Inc	1529 Arch Tempered Glass - ANSI
1378 The Chamberlain Group	1469 Boss Glass Ind Inc	1530 Arch Tempered Glass - ANSI
1379 Hordis Brothers, Inc.	1470 Boss Glass Ind Inc	1531 Arch Tempered Glass - ANSI
1380 Hordis Brothers, Inc.	1471 Boss Glass Ind Inc	1533 Glasstemp, Inc.
1381 Glasstemp, Inc.	1472 Boss Glass Ind Inc	1534 Glasstemp, Inc.
1382 Glasstemp, Inc.	1473 Boss Glass Ind Inc	1535 ACI Glass
1383 Glasstemp, Inc.	1476 Viracon, Inc	1536 Glasstemp, Inc.
1384 Glasstemp, Inc.	1477 Gemtron Corp	1539 Good News Glass
1385 Hamilton Glass Products	1479 Hankuk Glass Ind - ANSI	1541 Good News Glass
1386 Hamilton Glass Products	1480 Hankuk Glass Ind - ANSI	1542 Good News Glass
1387 Hamilton Glass Products	1481 Hankuk Glass Ind - ANSI	1544 Good News Glass

<u>SGCC NO.</u>	<u>SGCC NO.</u>	<u>SGCC NO.</u>
1545 Falconer Glass Industries	1595 Hoffer's, Inc.	1639 Northwestern Industries
1546 Floral Glass & Mirror	1596 Hoffer's, Inc.	1640 Northwestern Industries
1547 Floral Glass & Mirror	1597 Hoffer's, Inc.	1641 AFG Industries
1548 Floral Glass & Mirror	1598 Taylor Products, Inc.	1642 ACI Glass
1549 Floral Glass & Mirror	1599 Central Glass & Window - ANSI	1643 ACI Glass
1550 Floral Glass & Mirror	1600 Central Glass & Window - ANSI	1644 ACI Glass
1551 Floral Glass & Mirror	1601 Boss Glass Ind Inc	1645 ACI Glass
1552 Floral Glass & Mirror	1602 Hehr Glass Co - ANSI	1646 Hehr Glass Co - ANSI
1553 Floral Glass & Mirror	1603 PPG Industries	1647 Pan Lam Industries
1554 Perma-View Processed Glass	1604 PPG Industries	1648 Tempglass Southern, Inc
1555 Swift Glass Co., Inc.	1605 PPG Industries	1649 Tempglass Southern, Inc
1556 Swift Glass Co., Inc.	1606 PPG Industries	1650 Tempglass Southern, Inc
1557 Swift Glass Co., Inc.	1607 Guardian Fabrication - ANSI	1651 Macdonald Mirror
1558 Swift Glass Co., Inc.	1608 Downey Glass Co - ANSI	1652 Laminated Glass Corp.
1559 Swift Glass Co., Inc.	1609 Downey Glass Co - ANSI	1653 D & S Tempered Glass
1562 Arch Tempered Glass - ANSI	1610 Downey Glass Co - ANSI	1654 D & S Tempered Glass
1563 Ardco, Inc	1611 Downey Glass Co - ANSI	1655 D & S Tempered Glass
1564 Ardco, Inc	1612 Downey Glass Co - CPSC	1656 D & S Tempered Glass
1565 Ardco, Inc	1613 Downey Glass Co - CPSC	1657 D & S Tempered Glass
1571 Viracon West	1614 Downey Glass Co - CPSC	1658 D & S Tempered Glass
1572 Viracon West	1615 Downey Glass Co - CPSC	1660 D & S Tempered Glass
1573 Good News Glass	1616 Guardian Fabrication	1661 D & S Tempered Glass
1574 Guardian Fabrication - ANSI	1617 Sunbelt Glass, Inc	1663 AFG Industries
1575 Guardian Fabrication - ANSI	1618 Sunbelt Glass, Inc	1664 AFG Industries
1576 Guardian Fabrication - ANSI	1621 Solar Seal South	1665 Guardian Industries - ANSI
1577 Guardian Fabrication - ANSI	1622 Solar Seal South	1666 Safelite Glass Corp
1578 Milgard Tempering Inc	1624 AFG Industries	1667 Builders & Decorators - ANSI
1585 Franklin Glass Div	1627 Falconer-Lewistown	1668 Globe-Amerada
1586 Taylor Products, Inc.	1628 Falconer-Lewistown	1669 Indepent Insulating Glass Co
1587 Taylor Products, Inc.	1629 Falconer-Lewistown	1670 Indepent Insulating Glass Co
1588 Taylor Products, Inc.	1630 Guardian Industries - ANSI	1672 Wescan
1589 Taylor Products, Inc.	1631 Guardian Industries - ANSI	1673 Wescan
1590 Free State Glass Industries	1632 Guardian Industries - ANSI	1674 Zircon
1591 Free State Glass Industries	1633 Guardian Industries - ANSI	1675 Zircon
1592 Free State Glass Industries	1636 Viracon, Inc	
1593 Free State Glass Industries	1637 Viracon, Inc	
1594 Free State Glass Industries	1638 Northwestern Industries	



SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
<b>ACI GLASS; GREENSBORO, NC</b>					<b>AMERICAN FLAT GLASS DIST; MARIETTA, GA (CONT)</b>				
1642	3/16	( 5.0)	TTG	U	1428	5/32	( 4.0)	TPG(S)	U
1643	1/4	( 6.0)	TTG	U	1415	3/16	( 4.8)	TPG(S)	U
1644	3/8	(10.0)	TTG	U	<b>ANGLASS INDS INC; SAN FERNANDO, CA</b>				
1645	1/2	(12.0)	TTG	U	<b>ANSI ONLY</b>				
<b>ACI GLASS PRODUCTS INC; SANTA FE SPRINGS, CA</b>					520	1/8	( 3.0)	TTG	U
1157	3/16	( 5.0)	TTG	U	999	3/16	( 5.0)	TTG	U
1535	1/4	( 6.0)	TTG	U	1000	1/4	( 6.0)	TTG	U
639	3/8	(10.0)	TTG	U	<b>ARCH TEMPERED GLASS PRODUCTS; ORLANDO, FL</b>				
640	1/2	(12.0)	TTG	U	<b>ANSI ONLY</b>				
1226	1/8	( 3.2)	TPG(S)	U	1526	1/8	( 3.0)	TTG	U
<b>AFG INDS INC; BRIDGEPORT, WV</b>					1527	3/16	( 5.0)	TTG	U
1436	1/8	( 3.0)	TTG	U	1528	1/4	( 6.0)	TTG	U
1624	5/32	( 4.0)	TTG	U	1529	3/8	(10.0)	TTG	U
<b>AFG INDS INC; VICTORVILLE, CA</b>					1530	1/2	(12.0)	TTG	U
1664	1/8	( 3.2)	TTG	U	1531	1/8	( 3.0)	TPG(S)	U
1641	5/32	( 4.0)	TTG	U	1562	3/16	( 4.8)	TPG(S)	U
1663	3/16	( 4.8)	TTG	U	<b>ARDCO INC; CHICAGO, IL</b>				
<b>AFG INDS INC; GREENLAND, TN</b>					1041	1/8	( 3.0)	TTG	U
598	1/8	( 3.0)	TTG	U	1323	5/32	( 4.0)	TTG	U
955	5/32	( 4.0)	TTG	U	1042	3/16	( 5.0)	TTG	U
220	3/16	( 5.0)	TTG	U	1563	5/32	( 4.0)	TBG	U
89	1/4	( 6.0)	TTG	U	1564	3/16	( 5.0)	TBG	U
90	3/8	(10.0)	TTG	U	1565	1/4	( 6.0)	TBG	U
587	1/8	( 3.2)	TPG(S)	U	<b>BINSWANGER/ACI GLASS; DALLAS, TX</b>				
1139	3/16	( 4.8)	TPG(S)	U	<b>ANSI ONLY</b>				
<b>AFG INDS INC; KINGSFORT, TN</b>					1107	3/8	(10.0)	TTG	U
1390	1/8	( 3.0)	TTG	U	1108	1/2	(12.0)	TTG	U
949	5/32	( 4.0)	TTG	U	1225	3/4	(19.0)	TTG	U
28	3/16	( 5.0)	TTG	U	<b>BINSWANGER/ACI GLASS; DALLAS, TX</b>				
24	1/4	( 6.0)	TTG	U	400	3/16	( 5.0)	TTG	U
1143	3/16	( 4.8)	TPG(S)	U	402	1/4	( 6.0)	TTG	U
1414	1/8	( 3.2)	TPG(M)	U	<b>BOGARDUS WILSON LTD; WINNIPEG, MANITOBA, CANADA</b>				
<b>AFG GLASS INC; CONCORD, ONTARIO, CANADA</b>					1525	1/2	(12.0)	TTG	U
1485	1/8	( 3.0)	TTG	U	<b>BOSS GLASS IND INC; NEW WINDSOR, NY</b>				
1486	5/32	( 4.0)	TTG	U	1468	1/8	( 3.0)	TTG	U
1487	3/16	( 5.0)	TTG	U	1469	3/16	( 5.0)	TTG	U
1489	1/4	( 6.0)	TTG	U	1470	1/4	( 6.0)	TTG	U
<b>AIR SEAL INSULATING GLASS UNITS CO; GLOUCESTER CITY, NJ</b>					1471	3/8	(10.0)	TTG	U
1511	1/8	( 3.0)	OCG	U	1472	1/2	(12.0)	TTG	U
1512	3/16	( 5.0)	OCG	U	1601	3/4	(19.0)	TTG	32" x 76"
1513	1/4	( 6.0)	OCG	U	1473	7/32	( 5.6)	TPG(S)	U
<b>AMERICAN FLAT GLASS DIST; FALL RIVER, MA</b>					<b>BUILDERS &amp; DECORATORS GLASS CO; FT. LAUDERDALE, FL</b>				
1518	1/8	( 3.0)	TTG	U	<b>ANSI ONLY</b>				
1519	3/16	( 5.0)	TTG	U	1667	1/4	( 6.0)	LTG	U
1520	1/4	( 6.0)	TTG	U	<b>CENTRAL GLASS &amp; WINDOW INC; PINELLAS PARK, FL</b>				
1521	3/8	(10.0)	TTG	U	<b>ANSI ONLY</b>				
1522	1/2	(12.0)	TTG	U	1599	1/4	( 6.0)	LTG	U
1524	5/32	( 4.0)	TPG(S)	U	1600	1/2	(12.0)	LTG	U
1523	3/16	( 4.8)	TPG(S)	U	<b>CHAMBERLAIN GROUP INC; MALVERN, AR</b>				
<b>AMERICAN FLAT GLASS DIST; MARIETTA, GA</b>					586	1/8	( 3.0)	TTG	U
1405	1/8	( 3.0)	TTG	U	1376	5/32	( 4.0)	TTG	U
1230	3/16	( 5.0)	TTG	U	1377	3/16	( 5.0)	TTG	U
1231	1/4	( 6.0)	TTG	U	1378	1/4	( 6.0)	TTG	U
1232	3/8	(10.0)	TTG	U					
1406	1/2	(12.0)	TTG	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
COLONIAL MIRROR & GLASS CORP; BROOKLYN, NY					FALCONER-LEWISTOWN INC; LEWISTOWN, PA				
1165	1/4	( 6.0)	TTG	U	1627	1/8	( 3.0)	TTG	U
1166	3/8	(10.0)	TTG	U	1628	3/16	( 5.0)	TTG	U
1167	1/2	(12.0)	TTG	U	1629	1/4	( 6.0)	TTG	U
D & S TEMPERED GLASS; DALLAS, TX					FLEX-O-GLASS INC; DIXON, IL				
1653	1/8	( 3.0)	TTG	U	118	0.080-inch through 0.125-inch smooth extruded acrylic			U
1654	5/32	( 4.0)	TTG	U	FLORAL GLASS & MIRROR INC; HAUPPAUGE, NY				
1655	3/16	( 5.0)	TTG	U	1546	1/8	( 3.0)	TTG	U
1656	1/4	( 6.0)	TTG	U	1547	3/16	( 5.0)	TTG	U
1657	3/8	(10.0)	TTG	U	1548	1/4	( 6.0)	TTG	U
1658	1/2	(12.0)	TTG	U	1549	3/8	(10.0)	TTG	U
1660	5/32	( 4.0)	TPG(S)	U	1550	1/2	(12.0)	TTG	U
1661	3/16	( 4.8)	TPG(S)	U	1551	3/4	(19.0)	TTG	U
DOWNEY GLASS CO; LOS ANGELES, CA					1552	1/8	( 3.2)	TPG(S)	U
				ANSI ONLY	1553	7/32	( 5.6)	TPG(S)	U
1608	1/8	( 3.0)	TTG	U	FRANKLIN GLASS DIV; FRANKLIN, TN				
1609	5/32	( 4.0)	TTG	U	1585	1/4	( 6.0)	TTG	U
630	3/16	( 5.0)	TTG	U	FREE STATE GLASS INDS; WARRENTON, VA				
514	1/4	( 6.0)	TTG	U	1590	1/8	( 3.0)	TTG	U
515	3/8	(10.0)	TTG	U	1591	3/16	( 5.0)	TTG	U
516	1/2	(12.0)	TTG	U	1592	1/4	( 6.0)	TTG	U
1610	1/8	( 3.2)	TPG(S)	U	1593	3/8	(10.0)	TTG	U
935	3/16	( 4.8)	TPG(S)	U	1594	1/2	(12.0)	TTG	U
678	7/32	( 5.6)	TPG(S)	U	FULTON GLASS INDS INC; RED OAK, GA				
1611	1/8	( 3.2)	TPG(M)	U					ANSI ONLY
DOWNEY GLASS CO; LOS ANGELES, CA					1123	5/32	( 4.0)	TTG	U
				CPSC ONLY	1124	3/16	( 5.0)	TTG	U
1612	1/8	( 3.0)	TTG	U	1125	1/4	( 6.0)	TTG	U
1613	5/32	( 4.0)	TTG	U	1126	3/8	(10.0)	TTG	U
812	3/16	( 5.0)	TTG	U	1127	1/2	(12.0)	TTG	U
813	1/4	( 6.0)	TTG	U	1326	3/16	( 4.8)	TPG(S)	U
814	3/8	(10.0)	TTG	U	FULTON GLASS INDS INC; RED OAK, GA				
815	1/2	(12.0)	TTG	U					CPSC ONLY
1614	1/8	( 3.2)	TPG(S)	U	1130	5/32	( 4.0)	TTG	U
1114	3/16	( 4.8)	TPG(S)	U	1131	3/16	( 5.0)	TTG	U
817	7/32	( 5.6)	TPG(S)	U	1132	1/4	( 6.0)	TTG	U
1615	1/8	( 3.2)	TPG(M)	U	1212	3/8	(10.0)	TTG	U
ELGIN PRECISION GLASS CO INC; ELGIN, IL					1134	1/2	(12.0)	TTG	U
1369	1/8	( 3.0)	TTG	U	1327	3/16	( 4.8)	TPG(S)	U
1370	5/32	( 4.0)	TTG	U	GEMTRON CORP; SWEETWATER, TN				
1371	3/16	( 5.0)	TTG	U	1334	1/8	( 3.0)	TTG	U
1372	1/4	( 6.0)	TTG	U	1332	5/32	( 4.0)	TTG	U
EMPIRE GLASS INC; BRONX, NY					1426	.169	( 4.3)	TTG	U
1398	3/16	( 5.0)	TTG	U	1201	3/16	( 5.0)	TTG	U
1399	1/4	( 6.0)	TTG	U	1477	1/4	( 6.0)	TTG	U
1400	3/8	(10.0)	TTG	U	1422	1/8	( 3.2)	TPG(S)	U
1401	1/2	(12.0)	TTG	U	1424	5/32	( 4.0)	TPG(S)	U
1402	3/4	(19.0)	TTG	U	GENERAL GLASS CORP; DENVER, CO				
FALCONER GLASS INDS INC; FALCONER, NY					1180	5/32	( 4.0)	TTG	U
1545	3/16	( 5.0)	TTG	U	1181	3/16	( 5.0)	TTG	U
709	1/4	( 6.0)	TTG	U	1182	1/4	( 6.0)	TTG	U
1280	3/8	(10.0)	TTG	U	GENEVA GLASS INDS; GENEVA, IL				
711	1/2	(12.0)	TTG	U	1499	1/8	( 3.0)	TTG	U
712	3/4	(19.0)	TTG	U	FALCONER-LEWISTOWN INC; LEWISTOWN, PA				
				ANSI ONLY	1282	7/32	( 5.5)	LTG( .015)	U
1282	7/32	( 5.5)	LTG( .015)	U	1284	1/4	( 6.0)	LTG( .015)	U
1284	1/4	( 6.0)	LTG( .015)	U	1315	3/8	(10.0)	LTG( .015)	U
1315	3/8	(10.0)	LTG( .015)	U	1316	1/2	(12.0)	LTG( .015)	U
1316	1/2	(12.0)	LTG( .015)	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
<b>GENEVA GLASS INDS; GENEVA, IL (CONT)</b>					<b>GUARDIAN INDS CORP; CARLETON, MI (CONT)</b>				
1502	5/32	( 4.0)	TTG	U	131	1/4	( 6.0)	TTG	U
1500	3/16	( 5.0)	TTG	U	<b>GUARDIAN INDS CORP; CORSICANA, TX</b>				
1501	1/4	( 6.0)	TTG	U					<b>ANSI ONLY</b>
1503	3/8	(10.0)	TTG	U	1248	1/8	( 3.0)	TTG	U
1504	1/2	(12.0)	TTG	U	1249	5/32	( 4.0)	TTG	U
<b>GLASS FACTORY INC; RONKONKOMA, NY</b>					1250	3/16	( 5.0)	TTG	U
1458	1/8	( 3.0)	TTG	U	1251	1/4	( 6.0)	TTG	U
1459	3/16	( 5.0)	TTG	U	1253	3/8	(10.0)	TTG	U
1460	1/4	( 6.0)	TTG	U	1463	1/8	( 3.2)	TPG(S)	U
1461	1/2	(12.0)	TTG	U	1464	7/32	( 5.6)	TPG(S)	U
<b>GLASS TEMPERING SERVICE INC; DETROIT, MI</b>					<b>GUARDIAN INDS CORP; FORT LAUDERDALE, FL</b>				
1389	1/8	( 3.0)	TTG	30" by 76"					<b>ANSI ONLY</b>
1238	1/4	( 6.0)	TTG	U	1161	1/8	( 3.0)	TTG	U
1340	3/16	( 4.8)	TPG(S)	34" by 72"	633	3/16	( 5.0)	TTG	U
<b>GLASSTEMP INC; BENSENVILLE, IL</b>					40	1/4	( 6.0)	TTG	U
1534	1/8	( 3.0)	TTG	U	41	3/8	(10.0)	TTG	U
1381	3/16	( 5.0)	TTG	U	1004	1/2	(12.0)	TTG	U
1382	1/4	( 6.0)	TTG	U	1665	1/8	( 3.2)	TPG	U
1383	3/8	(10.0)	TTG	U	1318	3/16	( 4.8)	TPG(S)	U
1384	1/2	(12.0)	TTG	U	<b>GUARDIAN INDS CORP; KINGSBURG, CA</b>				
1536	3/8	(10.0)	TBG	U					<b>ANSI ONLY</b>
1533	1/2	(12.0)	TBG	U	968	1/8	( 3.0)	TTG	U
<b>GLOBE-AMERADA GLASS CO (ASSURANCE); SELMA, AL</b>					969	5/32	( 4.0)	TTG	U
1668	1/4	( 6.0)	LTG	U	970	3/16	( 5.0)	TTG	U
<b>GOOD NEWS GLASS; SPRINGFIELD, MA</b>					971	1/4	( 6.0)	TTG	U
1539	1/8	( 3.0)	TTG	U	1304	3/16	( 4.8)	TPG(S)	U
1541	3/16	( 5.0)	TTG	U	1303	1/8	( 3.2)	TPG(M)	U
1542	1/4	( 6.0)	TTG	U	1301	5/32	( 4.0)	TPG(M)	U
1573	3/8	(10.0)	TTG	U	<b>GUARDIAN INDS CORP; RICHBURG, SC</b>				
1544	3/16	( 4.8)	TPG(S)	U					<b>ANSI ONLY</b>
<b>GUARDIAN FABRICATION INC; MILLBURY, OH</b>					1630	1/8	( 3.0)	TTG	U
				<b>ANSI ONLY</b>	1631	5/32	( 4.0)	TTG	U
1574	1/8	( 3.0)	TTG	U	1632	3/16	( 5.0)	TTG	U
1575	5/32	( 4.0)	TTG	U	1633	1/4	( 6.0)	TTG	U
1576	3/16	( 5.0)	TTG	U	<b>GUARDIAN INDS CORP; UPPER SANDUSKY, OH</b>				
1577	1/4	( 6.0)	TTG	U					<b>ANSI ONLY</b>
<b>GUARDIAN FABRICATION INC; ROGERS, AR</b>					458	7/32	( 5.5)	LTG( .030)	U
1355	1/8	( 3.0)	TTG	U	487	1/4	( 6.0)	LTG( .030)	U
1616	5/32	( 4.0)	TTG	U	<b>GUARDIAN INDS CORP; UPPER SANDUSKY, OH</b>				
1356	3/16	( 5.0)	TTG	U	1515	3/16	( 5.0)	LTG( .030)	U
1357	1/4	( 6.0)	TTG	U	<b>GUARDIAN INDS CORP; TILLSONBURG, ONTARIO, CANADA</b>				
1358	1/8	( 3.2)	TPG(S)	U					<b>ANSI ONLY</b>
1359	5/32	( 4.0)	TPG(S)	U	1462	1/8	( 3.0)	TTG	U
1394	3/16	( 4.8)	TPG(D)	U	<b>HAMILTON GLASS PRODUCTS INC; VINCENNES, IN</b>				
<b>GUARDIAN FABRICATION INC; WEBSTER, MA</b>					54	1/8	( 3.0)	TTG	U
				<b>ANSI ONLY</b>	1385	5/32	( 4.0)	TTG	U
300	1/8	( 3.0)	TTG	U	1200	3/16	( 5.0)	TTG	U
1607	5/32	( 4.0)	TTG	U	57	1/4	( 6.0)	TTG	U
1216	3/16	( 5.0)	TTG	U	1386	5/32	( 4.0)	TPG(S)	U
662	1/4	( 6.0)	TTG	U	1387	3/16	( 4.8)	TPG(S)	U
471	3/8	(10.0)	TTG	U	<b>HANKUK GLASS INDUSTRY LTD; SEOUL, KOREA</b>				
1235	1/2	(12.0)	TTG	U					<b>ANSI ONLY</b>
<b>GUARDIAN INDS CORP; CARLETON, MI</b>					1479	5/32	( 4.0)	TTG	U
				<b>ANSI ONLY</b>	1480	3/16	( 5.0)	TTG	U
933	1/8	( 3.0)	TTG	U	1413	1/4	( 6.0)	TTG	U
934	5/32	( 4.0)	TTG	U	1481	5/16	( 8.0)	TTG	U
631	3/16	( 5.0)	TTG	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
HANKUK GLASS INDUSTRY LTD; SEOUL, KOREA (CON'T)					NORTHWESTERN INDS INC; SEATTLE, WA (CON'T)				
1482	3/8	( 10.0)	TTG	U	1639	1/4	( 6.0)	TTG	U
1483	1/2	( 12.0)	TTG	U	1640	3/16	( 5.0)	LTG( .030)	U
HAVLIN WITKIN CORP; SANTA CLARA, CA					O & W GLASS INDS INC; EVERETT, WA				
1494	3/16	( 5.0)	TTG	U	1429	1/8	( 3.0)	TTG	U
1496	1/4	( 6.0)	TTG	U	OPG INDS INC; JEFFERSON, TX				
1497	3/8	( 10.0)	TTG	U	1388	1/8	( 3.2)	TPG(M)	ANSI ONLY U
1498	1/2	( 12.0)	TTG	U	OPG INDS INC; JEFFERSON, TX				
1495	7/32	( 5.6)	TPG(S)	U	1281	1/8	( 3.0)	TTG	U
HEHR GLASS CO; NEWTON, KS					1286	3/16	( 5.0)	TTG	U
1492	1/8	( 3.0)	TTG	U	1287	1/4	( 6.0)	TTG	U
1493	3/16	( 5.0)	TTG	U	OPG INDS INC; LEWISBURG, OH				
1516	1/4	( 6.0)	TTG	U	188	3/16	( 4.8)	TPG(S)	ANSI ONLY U
1507	5/32	( 4.0)	TPG(S)	U	562	7/32	( 5.6)	TPG(S)	U
HEHR GLASS CO; CHESANING, MI					654	1/8	( 3.2)	TPG(M)	U
1646	5/32	( 4.0)	TTG	ANSI ONLY U	328	3/16	( 4.8)	TPG(D)	U
1602	5/32	( 4.0)	TPG(S)	U	OPG INDS INC; LEWISBURG, OH				
HEHR GLASS CO; CHESANING, MI					1050	1/8	( 3.0)	TTG	U
1062	1/8	( 3.0)	TTG	U	1452	5/32	( 4.0)	TTG	U
1510	3/16	( 5.0)	TTG	U	185	3/16	( 5.0)	TTG	U
1517	1/4	( 6.0)	TTG	U	186	1/4	( 6.0)	TTG	U
1514	1/8	( 3.0)	TPG(S)	32" by 60"	PAN LAM INDS; BOTHELL, WA				
HOFFER'S INC; SCHOFIELD, WI					1647	3/16	( 5.0)	LTG	U
1595	1/8	( 3.0)	TTG	32" x 75"	PERMA*VIEW PROCESSED GLASS; CLARKSVILLE, TN				
1596	3/16	( 5.0)	TTG	32" x 75"	1505	1/8	( 3.0)	TTG	U
1597	1/4	( 6.0)	TTG	32" x 75"	1506	3/16	( 5.0)	TTG	U
HORDIS BROS INC; WARRENTON, MO					1554	1/4	( 6.0)	TTG	U
1379	1/8	( 3.0)	TTG	U	PPG INDS INC; CARLISLE, PA				
1380	5/32	( 4.0)	TTG	U	382	1/4	( 6.0)	TTG	ANSI ONLY U
1421	3/16	( 5.0)	TTG	U	PPG INDS INC; CARLISLE, PA				
1448	1/4	( 6.0)	TTG	U	250	1/8	( 3.0)	TTG	U
HOWE-MARTZ GLASS CO; DETROIT, MI					675	5/32	( 4.0)	TTG	U
1265	5/32	( 4.0)	TTG	U	249	3/16	( 5.0)	TTG	U
1266	3/16	( 5.0)	TTG	U	PPG INDS INC; FORD CITY, PA				
1268	1/4	( 6.0)	TTG	U	70	1/4	( 6.0)	TTG	U
1269	3/8	( 10.0)	TTG	U	PPG INDS INC; FRESNO, CA				
1270	1/2	( 12.0)	TTG	U	295	1/8	( 3.0)	TTG	U
1344	3/16	( 4.8)	TPG(S)	U	676	5/32	( 4.0)	TTG	U
INDEPENDENT INSULATING GLASS CO; BEDFORD PARK, IL					64	3/16	( 5.0)	TTG	U
1669	3/16	( 5.0)	TTG	U	PPG INDS INC; BURLINGTON, IA				
1670	1/4	( 6.0)	TTG	U	1605	1/8	( 3.0)	TTG	U
LAMINATED GLASS CORP; PLYMOUTH MEETING, PA					1606	5/32	( 4.0)	TTG	U
1652	1/4	( 6.0)	LTG( .030)	U	1603	3/16	( 5.0)	TTG	U
MACDONALD MIRROR INC; BRAMPTON, ONTARIO, CANADA					1604	1/4	( 6.0)	TTG	U
1651	1/4	( 6.0)	LTG( .030)	U	PPG INDS INC; MIAMI, FL				
MILGARD TEMPERING INC; TACOMA, WA					1067	3/8	( 10.0)	TTG	ANSI ONLY U
1578	1/4	( 6.0)	TTG	U	1336	1/2	( 12.0)	TTG	U
NASHVILLE TEMPERED GLASS CORP; NASHVILLE, TN					1298	3/16	( 4.8)	TPG(S)	U
1416	1/8	( 3.0)	TTG	U					
1467	3/16	( 5.0)	TTG	U					
1417	1/4	( 6.0)	TTG	U					
NORTHWESTERN INDS INC; SEATTLE, WA									
1638	3/16	( 5.0)	TTG	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
<b>PPG INDS INC; MIAMI, FL</b>					<b>SUNGLAS PRODUCTS INC; CLAREMORE, OK</b>				
195	3/16	( 5.0)	TTG	U	1361	5/32	( 4.0)	TTG	U
194	1/4	( 6.0)	TTG	U	1362	3/16	( 5.0)	TTG	U
<b>PPG INDS INC; WICHITA FALLS, TX</b>					1363	1/4	( 6.0)	TTG	U
				<b>ANSI ONLY</b>	1374	3/8	(10.0)	TTG	U
1113	1/4	( 6.0)	TTG	U	<b>SWIFT GLASS CO INC; ELMIRA HEIGHTS, NY</b>				
<b>PPG INDS INC; WICHITA FALLS, TX</b>					1555	1/8	( 3.0)	TTG	U
1110	1/8	( 3.0)	TTG	U	1556	3/16	( 5.0)	TTG	U
1111	5/32	( 4.0)	TTG	U	1557	1/4	( 6.0)	TTG	U
1112	3/16	( 5.0)	TTG	U	1558	3/8	(10.0)	TTG	U
<b>SAFELITE GLASS CORP; WICHITA, KS</b>					1559	1/2	(12.0)	TTG	U
				<b>ANSI ONLY</b>	<b>TAYLOR PRODUCTS INC; PAYNE, OH</b>				
1173	7/32	( 5.5)	LTG( .015)	U	1586	1/8	( 3.2)	TTG	U
<b>SAFELITE GLASS CORP; WICHITA, KS</b>					1587	5/32	( 4.0)	TTG	U
1360	3/16	( 5.0)	LTG( .030)	U	1588	3/16	( 5.0)	TTG	U
1666	7/32	( 5.6)	LPG(S)	U	1589	1/4	( 6.0)	TTG	U
<b>SAINT GOBAIN; THE NETHERLANDS</b>					1598	3/8	(10.0)	TTG	U
				<b>ANSI ONLY</b>	<b>TEMP-TECH INDS INC; CHICAGO, IL</b>				
1393	1/4	( 6.0)	TTG	U	986	1/4	( 6.0)	TTG	U
<b>SHAW GLASS CO INC; SOUTH EASTON, MA</b>					<b>TEMPERED GLASS CORP; TAMPA, FL</b>				
1484	1/8	( 3.0)	TTG	U	1395	3/16	( 5.0)	TTG	U
1034	3/16	( 5.0)	TTG	U	337	1/4	( 6.0)	TTG	U
1035	1/4	( 6.0)	TTG	U	348	3/8	(10.0)	TTG	U
1036	3/8	(10.0)	TTG	U	338	1/2	(12.0)	TTG	U
1037	1/2	(12.0)	TTG	U	1329	3/16	( 4.8)	TPG(S)	U
1299	3/16	( 4.8)	TPG(S)	U	1118	7/32	( 5.6)	TPG(S)	U
<b>SOLAR SEAL SOUTH INC; ASHLAND, VA</b>					<b>TEMPERED GLASS INC; AUSTELL, GA</b>				
1621	3/16	( 5.0)	TTG	U					<b>ANSI ONLY</b>
1622	1/4	( 6.0)	TTG	U	320	3/16	( 5.0)	TTG	U
<b>SPECTRUM GLASS PRODUCTS; CLINTON, NC</b>					321	1/4	( 6.0)	TTG	U
				<b>ANSI ONLY</b>	322	3/8	(10.0)	TTG	U
1073	3/16	( 5.0)	TTG	U	323	1/2	(12.0)	TTG	U
1074	1/4	( 6.0)	TTG	U	<b>TEMPERED GLASS INC; AUSTELL, GA</b>				
1075	5/16	( 8.0)	TTG	U					<b>CPSC ONLY</b>
1076	3/8	(10.0)	TTG	U	862	3/16	( 5.0)	TTG	U
1077	1/2	(12.0)	TTG	U	863	1/4	( 6.0)	TTG	U
<b>SPECTRUM GLASS PRODUCTS; CLINTON, NC</b>					865	3/8	(10.0)	TTG	U
				<b>CPSC ONLY</b>	866	1/2	(12.0)	TTG	U
1080	3/16	( 5.0)	TTG	U	<b>TEMPGLASS INC; PERRYSBURG, OH</b>				
1081	1/4	( 6.0)	TTG	U	1039	1/8	( 3.0)	TTG	U
1082	5/16	( 8.0)	TTG	U	592	3/16	( 5.0)	TTG	U
1083	3/8	(10.0)	TTG	U	1420	1/4	( 6.0)	TTG	U
1084	1/2	(12.0)	TTG	U	594	3/8	(10.0)	TTG	U
<b>SUMITEC INC; BENTON HARBOR, MI</b>					595	1/2	(12.0)	TTG	U
				<b>ANSI ONLY</b>	<b>TEMPGLASS EASTERN INC; BUFORD, GA</b>				
1441	7/32	( 5.6)	LTG	U	979	1/8	( 3.0)	TTG	U
<b>SUNBELT GLASS INC; TULSA, OK</b>					1259	5/32	( 4.0)	TTG	U
1453	1/8	( 3.0)	TTG	U	981	3/16	( 5.0)	TTG	U
1454	3/16	( 5.0)	TTG	U	982	1/4	( 6.0)	TTG	U
1455	1/4	( 6.0)	TTG	U	1058	3/8	(10.0)	TTG	U
1456	3/8	(10.0)	TTG	U	1059	1/2	(12.0)	TTG	U
1457	1/2	(12.0)	TTG	U	1338	3/16	( 4.8)	TPG(S)	U
1617	5/32	( 4.0)	TPG(S)	U	<b>TEMPGLASS SOUTHERN INC; GRAND PRAIRIE, TX</b>				
1618	3/16	( 4.8)	TPG(S)	U	1219	3/16	( 5.0)	TTG	U
					1044	1/4	( 6.0)	TTG	U
					1045	3/8	(10.0)	TTG	U
					1046	1/2	(12.0)	TTG	U

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
<b>TEMPGLASS SOUTHERN INC; GRAND PRAIRIE, TX (CONT)</b>				
1648	7/16	( 11.0)	LTG( .059)	U
1649	1/2	( 12.0)	LTG( .031)	U
1650	9/16	( 13.0)	LTG( .060)	U
<b>TRACO (THREE RIVERS ALUM); WARRENDALE, PA</b>				
1308	1/8	( 3.0)	TTG	U
1310	3/16	( 5.0)	TTG	U
1311	1/4	( 6.0)	TTG	U
<b>VIRACON INC; OWATONNA, MN</b>				
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
<b>VIRACON WEST; VACAVILLE, CA</b>				
1571	3/16	( 5.0)	TTG	U
1572	1/4	( 6.0)	TTG	U
<b>VIRGINIA GLASS PRODUCTS CORP; MARTINSVILLE, VA</b>				
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
<b>WESCAN GLASS IND (VAN) INC; BURNABY, BC, CANADA</b>				
1672	1/4	( 6.0)	TTG	U
1673	3/8	(10.0)	TTG	U
<b>ZIRCON INC; COLLIERVILLE, TN</b>				
1674	1/8	( 3.0)	LTG( .030)	U
1675	1/8	( 3.0)	LTG( .060)	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>
<b>TEMPERED TRANSPARENT GLASS</b>		
<b>1/8 inch tempered transparent glass</b>		
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
Boss Glass Ind Inc; New Windsor, NY	1468	U
The Chamberlain Group; Malvern, AR	586	U
D & S Tempered Glass; Dallas, TX	1653	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
Falconer-Lewistown; Lewistown, PA	1627	U
Floral Glass & Mirror; Hauppauge, NY	1546	U
Free State Glass 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
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; Richburg, SC	1630	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, MO	1379	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
AFG Industries; Victorville, CA	1664	U
Taylor Products, Inc.; Payne, OH	1586	U
<b>5/32 inch tempered transparent glass</b>		
AFG Industries; Bridgeport, WV	1624	U
AFG Industries; Victorville, CA	1641	U
AFG Industries; Greenland, TN	955	U

	<u>SGCC NO.</u>	<u>MAX. SIZE CERTIFIED</u>
<b>TEMPERED TRANSPARENT GLASS - continued</b>		
<b>5/32 inch tempered transparent glass - continued</b>		
AFG Industries; Kingsport, TN	949	U
AFG Glass Inc; Concord, Ontario, Canada	1486	U
Ardco, Inc; Chicago, IL	1323	U
The Chamberlain Group; Malvern, AR	1376	U
D & S Tempered Glass; Dallas, TX	1654	U
Downey Glass Co; Los Angeles, CA	1609	ANSI ONLY
Downey Glass Co; Los Angeles, CA	1613	CPSC ONLY
Elgin Precision Glass Co; Elgin, IL	1370	U
Fulton Glass Inds; Red Oak, GA	1123	ANSI ONLY
Fulton Glass Inds; Red Oak, GA	1130	CPSC ONLY
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
Guardian Fabrication; Rogers, AR	1616	U
Guardian Fabrication; Webster, MA	1607	ANSI ONLY
Guardian Industries; Carleton, MI	934	ANSI ONLY
Guardian Industries; Corsicana, TX	1249	ANSI ONLY
Guardian Industries; Kingsburg, CA	969	ANSI ONLY
Guardian Industries; Richburg, SC	1631	ANSI ONLY
Hamilton Glass Products; Vincennes, IN	1385	U
Hankuk Glass Ind; Seoul, Korea	1479	ANSI ONLY
Hehr Glass Co; Chesaning, MI	1646	ANSI ONLY
Hordis Brothers, Inc.; Warrenton, MO	1380	U
Howe-Martiz 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	U
Taylor Products, Inc.; Payne, OH	1587	U
Tempglass Eastern, Inc; Buford, GA	1259	U
<b>.169 inch tempered transparent glass</b>		
Gemtron Corp; Sweetwater, TN	1426	U
<b>3/16 inch tempered transparent glass</b>		
AFG Industries; Victorville, CA	1663	U
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
Arch Tempered Glass; Orlando, FL	1527	ANSI ONLY
Ardco, Inc; Chicago, IL	1042	U
Binswanger/ACI Glass; Dallas, TX	400	U
Boss Glass Ind Inc; New Windsor, NY	1469	U
The Chamberlain Group; Malvern, AR	1377	U
D & S Tempered Glass; Dallas, TX	1655	U
Downey Glass Co; Los Angeles, CA	630	ANSI ONLY
Downey Glass Co; Los Angeles, CA	812	CPSC ONLY
Elgin Precision Glass Co; Elgin, IL	1371	U
Empire Glass, Inc; Bronx, NY	1398	U
Falconer Glass Industries; Falconer, NY	1545	U
Falconer-Lewistown; Lewistown, PA	1628	U
Floral Glass & Mirror; Hauppauge, NY	1547	U
Free State Glass Industries; Warrenton, VA	1591	U
Fulton Glass Inds; Red Oak, GA	1124	ANSI ONLY

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

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
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
Guardian Industries; Richburg, SC	1632	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-Martiz Glass; Detroit, MI	1266		U
Indepent Insulating Glass Co; Bedford Park, IL	1669		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		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
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
Viracon, Inc; Owatonna, MN	1403		U
Viracon West; 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

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

	<u>SGCC NO.</u>	<u>MAX. SIZE CERTIFIED</u>
Binswanger/ACI Glass; Dallas, TX	402	U
Boss Glass Ind Inc; New Windsor, NY	1470	U
The Chamberlain Group; Malvern, AR	1378	U
Colonial Mirror & Glass; Brooklyn, NY	1165	U
D & S Tempered Glass; Dallas, TX	1656	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
Falconer-Lewistown; Lewistown, PA	1629	U
Floral Glass & Mirror; Hauppauge, NY	1548	U
Franklin Glass Div; Franklin, TN	1585	U
Free State Glass 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
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
Guardian Industries; Richburg, SC	1633	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	32" x 75" U
Hordis Brothers, Inc.; Warrenton, MO	1448	U
Howe-Martz Glass; Detroit, MI	1268	U
Indepent Insulating Glass Co; Bedford Park, IL	1670	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	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

	SGCC NO.	MAX. SIZE CERTIFIED
<b>TEMPERED TRANSPARENT GLASS - continued</b>		
<b>1/4 inch tempered transparent glass - continued</b>		
Tempglass, Inc; Perrysburg, OH	1420	U
Tempglass Eastern, Inc; Buford, GA	982	U
Tempglass Southern, Inc; Grand Prairie, TX	1044	U
TRACO (Three Rivers Alum.); Warrendale, PA	1311	U
Viracon, Inc; Owatonna, MN	1404	U
Viracon West; Vacaville, CA	1572	U
Virginia Glass Products; Martinsville, VA	14	U
Wescan; Burnaby, BC, CANADA	1672	U
<b>5/16 inch tempered transparent glass</b>		
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
<b>3/8 inch tempered transparent glass</b>		
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
Boss Glass Ind Inc; New Windsor, NY	1471	U
Colonial Mirror & Glass; Brooklyn, NY	1166	U
D & S Tempered Glass; Dallas, TX	1657	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 Glass 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
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	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
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
Wescan; Burnaby, BC, CANADA	1673	U
<b>1/2 inch tempered transparent glass</b>		
ACI Glass; Greensboro, NC	1645	U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
<b>TEMPERED TRANSPARENT GLASS - continued</b>			
<b>1/2 inch tempered transparent glass - continued</b>			
ACI Glass; Santa Fe Springs, CA	640		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
Boss Glass Ind Inc; New Windsor, NY	1472		U
Colonial Mirror & Glass; Brooklyn, NY	1167		U
D & S Tempered Glass; Dallas, TX	1658		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 Glass 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
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
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
<b>3/4 inch tempered transparent glass</b>			
Binswanger/ACI Glass; Dallas, TX	1225	ANSI ONLY	U
Boss Glass Ind Inc; New Windsor, NY	1601		32" x 76"
Empire Glass, Inc; Bronx, NY	1402		U
Falconer Glass Industries; Falconer, NY	712		U
Floral Glass & Mirror; Hauppauge, NY	1551		U
Virginia Glass Products; Martinsville, VA	95		U
<b>TEMPERED PATTERNED GLASS</b>			
<b>1/8 inch tempered patterned glass</b>			
Guardian Industries; Fort Lauderdale, FL	1665	ANSI ONLY	U
<b>1/8 inch tempered patterned glass (shallow)</b>			
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

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
<b>TEMPERED PATTERNED GLASS - continued</b>			
<b>1/8 inch tempered patterned glass (shallow) - continued</b>			
Gemtron Corp; Sweetwater, TN	1422		U
Guardian Fabrication; Rogers, AR	1358		U
Guardian Industries; Corsicana, TX	1463	ANSI ONLY	U
<b>1/8 inch tempered patterned glass (medium)</b>			
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
Guardian Industries; Kingsburg, CA	1303	ANSI ONLY	U
OPG Industries; Jefferson, TX	1388	ANSI ONLY	U
OPG Industries; Lewisburg, OH	654	ANSI ONLY	U
<b>5/32 inch tempered patterned glass (shallow)</b>			
American Flat Glass Distrib; Fall River, MA	1524		U
American Flat Glass Distrib; Marietta, GA	1428		U
D & S Tempered Glass; Dallas, TX	1660		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
<b>5/32 inch tempered patterned glass (medium)</b>			
Guardian Industries; Kingsburg, CA	1301	ANSI ONLY	U
<b>3/16 inch tempered patterned glass (shallow)</b>			
AFG Industries; Greenland, TN	1139		U
AFG Industries; Kingsport, TN	1143		U
American Flat Glass Distrib; Fall River, MA	1523		U
American Flat Glass Distrib; Marietta, GA	1415		U
Arch Tempered Glass; Orlando, FL	1562	ANSI ONLY	U
D & S Tempered Glass; Dallas, TX	1661		U
Downey Glass Co; Los Angeles, CA	935	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" U
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
<b>3/16 inch tempered patterned glass (deep)</b>			
Guardian Fabrication; Rogers, AR	1394		U
OPG Industries; Lewisburg, OH	328	ANSI ONLY	U
<b>7/32 inch tempered patterned glass (shallow)</b>			
Boss Glass Ind Inc; New Windsor, NY	1473		U
Downey Glass Co; Los Angeles, CA	678	ANSI ONLY	U

	<u>SGCC NO.</u>		<u>MAX. SIZE CERTIFIED</u>
<b>TEMPERED PATTERNED GLASS - continued</b>			
<b>7/32 inch tempered patterned glass (shallow) - continued</b>			
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
OPG Industries; Lewisburg, OH	562	ANSI ONLY	U
Tempered Glass Corp; Tampa, FL	1118		U
<b>LAMINATED TRANSPARENT GLASS</b>			
<b>1/8 inch laminated transparent glass</b>			
Zircon; Collierville, TN	1674		U
Zircon; Collierville, TN	1675		U
<b>3/16 inch laminated transparent glass</b>			
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
<b>7/32 inch laminated transparent glass</b>			
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
<b>1/4 inch laminated transparent glass</b>			
Builders & Decorators; Ft. Lauderdale, FL	1667	ANSI ONLY	U
Central Glass & Window; Pinellas Park, FL	1599	ANSI ONLY	U
Falconer-Lewistown; Lewistown, PA	1284	ANSI ONLY	U
Globe-Amerada; Selma, AL	1668		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
<b>3/8 inch laminated transparent glass</b>			
Falconer-Lewistown; Lewistown, PA	1315	ANSI ONLY	U
<b>7/16 inch laminated transparent glass</b>			
Tempglass Southern, Inc; Grand Prairie, TX	1648		U
<b>1/2 inch laminated transparent glass</b>			
Central Glass & Window; Pinellas Park, FL	1600	ANSI ONLY	U
Falconer-Lewistown; Lewistown, PA	1316	ANSI ONLY	U
Tempglass Southern, Inc; Grand Prairie, TX	1649		U
<b>9/16 inch laminated transparent glass</b>			
Tempglass Southern, Inc; Grand Prairie, TX	1650		U
<b>LAMINATED PATTERNED GLASS</b>			
<b>3/16 inch laminated patterned glass (shallow)</b>			
Viracon, Inc; Owatonna, MN	1636		U
<b>7/32 inch laminated patterned glass (shallow)</b>			
Safelite Glass Corp; Wichita, KS	1666		U



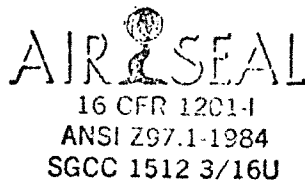
	<u>SGCC NO.</u>	<u>MAX. SIZE CERTIFIED</u>
<b>SAFETY PLASTIC SHEET</b>		
<b>.080 inch through 0.125 inch acrylic</b>		
Flex-O-Glass, Inc; Dixon, IL	118	U
<b>ORGANIC COATED GLASS</b>		
<b>1/8 inch organic coated glass</b>		
Air Seal IG Units Co; Gloucester City, NJ	1511	U
<b>3/16 inch organic coated glass</b>		
Air Seal IG Units Co; Gloucester City, NJ	1512	U
<b>1/4 inch organic coated glass</b>		
Air Seal IG Units Co; Gloucester City, NJ	1513	U
<b>TEMPERED BENT GLASS</b>		
<b>5/32 inch Tempered Bent Glass</b>		
Ardco, Inc; Chicago, IL	1563	U
<b>3/16 inch Tempered Bent Glass</b>		
Ardco, Inc; Chicago, IL	1564	U
<b>1/4 inch Tempered Bent Glass</b>		
Ardco, Inc; Chicago, IL	1565	U
<b>3/8 inch Tempered Bent Glass</b>		
Glasstemp, Inc.; Bensenville, IL	1536	U
<b>1/2 inch Tempered Bent Glass</b>		
Glasstemp, Inc.; Bensenville, IL	1533	U

**ACI GLASS**

2710 Patterson St  
Greensboro NC 27407

**AIR SEAL INSULATING GLASS UNITS CO**

522 Powell St  
Gloucester City NJ 08030



**ACI GLASS PRODUCTS INC**

9010 S Norwalk Blvd  
Santa Fe Springs CA 90670

**AMERICAN FLAT GLASS DIST**

3200 Austell Rd  
Marietta GA 30060



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



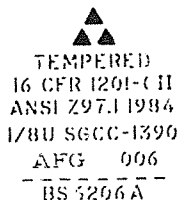
ANSI Z97.1-1984  
16CFR 1201-CII  
SGCC 1232 3/8" U

**AFG INDS INC**

PO Box 929  
Kingsport TN 37662

**ANGLASS INDS INC**

12364 Gladstone Ave  
San Fernando CA 91342



**AFG GLASS INC**

75 Doney Crescent  
Concord Ontario L4K 1P6  
CANADA

**ARCH TEMPERED GLASS PRODUCTS**

3320 Maggie Blvd  
Orlando FL 32811



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

**ARDCO INC**  
12400 S Laramie Ave  
Chicago IL 60658

**CENTRAL GLASS & WINDOW INC**  
8600 - 66th St N  
Pinellas Park FL 34666-4526

**Ardco TemperBent**

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

**BINSWANGER/ACI GLASS**  
12900 Nicholson Rd  
PO Box 815547  
Dallas TX 75381

**CHAMBERLAIN GROUP INC**  
PO Box H  
Hot Springs AR 71902

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

**BOGARDUS WILSON LTD**  
121 Plymouth St  
Winnipeg Manitoba R2X 2T3  
CANADA

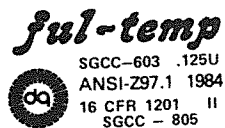
**COLONIAL MIRROR & GLASS CORP**  
142 19th St  
Brooklyn NY 11232

**colonial mirror & glass corp.**  
Glas Steel Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201-II SGCC-1167 1/2U


**BOSS GLASS IND INC**  
335 Temple Hill Rd  
New Windsor NY 12550

**D & S TEMPERED GLASS**  
2531 Royal Ln Suite 505  
Dallas TX 75229

**DOWNEY GLASS CO**  
5631 Ferguson Dr  
Los Angeles CA 90022



**FALCONER-LEWISTOWN INC**  
One Belle Ave  
Lewistown PA 17044

**FALCONER**  
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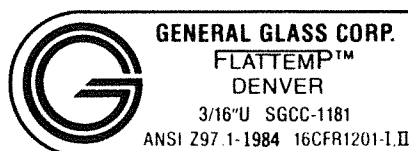
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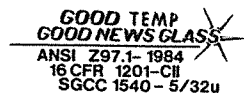
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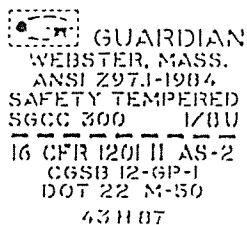
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SGCC-1382  
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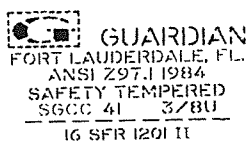
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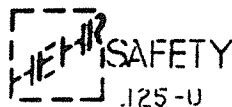
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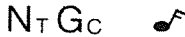
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Copies of ANSI Z97.1-1984 may be obtained from:

American National Standards Institute  
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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:

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1640 West 32nd Place  
Hialeah, FL 33012  
Attention: Mr. James W. Bailey  
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Northwest Laboratories  
1530 First Avenue South  
Seattle, WA 98134  
Attention: Mr. Alan J. Potter  
Telephone: 206-622-0680

Pacific Inspection & Research Laboratory  
4076-148th Avenue N E  
Redmond, WA 98052  
Attention: Mr. Randy Van Voorst  
Telephone: 206-881-7668

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

Southwestern Laboratories, Inc.  
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