

July, 1973



safety glazing certification council

Certification of products listed herein extends until January 1, 1974

certified products directory  
safety glazing material used in buildings



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This directory is furnished to you as a service of the Safety Glazing Certification Council. Listed in the directory are safety glazing materials which meet all requirements of the American National Standards Institute (ANSI). Also listed are materials for indoor use only, which meet the safety requirements of ANSI but not the weathering requirements. As explained in the directory, one requirement for meeting the ANSI standard provides that all certified safety glazing materials must be available to the independent certification agency for unannounced, random sampling and testing on a periodic and continuing basis. Should you have any questions or comments, or should you wish to receive future copies of this directory (published approximately every six months), please write directly to:

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Assistant Secretary  
Safety Glazing Certification Council  
1640 West 32 Place  
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# PROGRAM CONCEPT

This directory is an essential and fundamental part of the Safety Glazing Certification Council, Inc. certification program.

This directory is up-dated and issued at least twice a year and is the only valid source of information concerning SGCC certified safety glazing materials. By specifying or using safety glazing materials bearing the labels listed herein, you can be assured that the manufacturer of the materials named in the label has certified that the labeled materials comply with the safety characteristics established by the American National Standard Z97.1-1972 and that the compliance of the manufacturer with the requirements of that standard is being checked periodically by an independent testing laboratory under the supervision of the Safety Glazing Certification Council, Inc.

Safety Glazing Certification Council, Inc. (not for profit) is the sponsor of this certification program. Any safety glazing material, whether transparent or not, is eligible for certification in this program.

Every manufacturer of safety glazing material is eligible to participate, however his products are not accepted and certified until an independent laboratory test indicates compliance with the standard. Then, at least twice a year, SGCC independently selects samples during unannounced visits to the manufacturing plant or randomly from the market place. The re-examination of these samples is used to provide certification of a continuing nature. Based upon these re-evaluation reports SGCC authorizes continued use of the certification label and product listing in this certified products directory.

The presence of a permanent label (registered and authorized by SGCC) will indicate the safety glazing material is in compliance with the "break safe characteristics" of ANSI Z97.1-1972.

The SGCC certification label must be permanently marked on each piece of safety glazing material or else it is not certified by SGCC. Typical labels are reproduced in this certified products directory in the same size that you will find them on each piece of safety glazing material.

This directory (one of two to be published yearly) contains a listing of the Certified Safety Glazing Materials of each participant that is in good standing and whose products have been found by test and subsequent evaluation to be in compliance with the requirements of the Specifications.

## SAFETY GLAZING CERTIFICATION COUNCIL

Widespread use of high performance safety glazing materials in buildings can help to reduce accident frequency and severity. Many states, national lending agencies, sophisticated professionals and local regulatory authorities require the use of safety glazing materials in hazardous locations to reduce the frequency and severity of accidents associated with ordinary materials.

To aid professionals, contractors and owners in the specification and selection of safety glazing materials and to help inspectors identify safety glazing materials and distinguish them from other types, formal certification and labeling is essential.

The certification programs initiated separately by Glass Tempering Association and Safety Glazing Industry, Inc. several years ago have joined forces in the Safety Glazing Certification Council (SGCC). SGCC is a unique organization with balanced leadership equally representative of both public and manufacturing interests.

Building upon established practices, SGCC provides "third party independent laboratory certification" of safety glazing material performance characteristics with respect to the nationally recognized standard and test methods developed by American National Standards Institute. SGCC bases its certification upon product performance evaluation tests conducted at prescribed intervals by experienced professionals.

Types of safety glazing materials which meet all aspects of a nationally recognized standard may be so certified and labeled. Copies of SGCC's bylaws and procedures are available on request. Manufacturers are invited to apply for certification of their safety glazing products.

THE CERTIFICATION COMMITTEE OF THE SAFETY GLAZING CERTIFICATION COUNCIL MET ON APRIL 5 AND 6 DURING THE FIRST SIX MONTHS OF 1973. INTERESTED PERSONS MAY OBTAIN MINUTES OF THESE MEETINGS BY WRITING TO SAFETY GLAZING CERTIFICATION COUNCIL.

# CERTIFIED PRODUCTS

(NUMERICAL SEQUENCE)

|         |                      |          |                     |
|---------|----------------------|----------|---------------------|
| SGCC-11 | Feather-lite         | SGCC-63  | PPG Industries      |
| SGCC-12 | Virginia Glass       | SGCC-64  | PPG Industries      |
| SGCC-13 | Virginia Glass       | SGCC-65  | PPG Industries      |
| SGCC-14 | Virgina Glass        | SGCC-66  | PPG Industries      |
| SGCC-16 | S. A. Glaverbel      | SGCC-70  | PPG Industries      |
| SGCC-17 | Intercosmic Plastics | SGCC-71  | PPG Industries      |
| SGCC-18 | Southern Plastics    | SGCC-72  | PPG Industries      |
| SGCC-19 | Libbey-Owens-Ford    | SGCC-73  | PPG Industries      |
| SGCC-20 | Libbey-Owens-Ford    | SGCC-74  | PPG Industries      |
| SGCC-21 | Libbey-Owens-Ford    | SGCC-75  | PPG Industries      |
| SGCC-22 | Libbey-Owens-Ford    | SGCC-76  | C-E Glass           |
| SGCC-23 | Libbey-Owens-Ford    | SGCC-77  | C-E Glass           |
| SGCC-24 | ASG Industries       | SGCC-78  | Guardian Industries |
| SGCC-25 | ASG Industries       | SGCC-80  | Saint Gobain        |
| SGCC-26 | ASG Industries       | SGCC-81  | Saint Gobain        |
| SGCC-27 | ASG Industries       | SGCC-82  | Libbey-Owens-Ford   |
| SGCC-28 | ASG Industries       | SGCC-83  | Guardian Industries |
| SGCC-30 | ASG Industries       | SGCC-84  | Libbey-Owens-Ford   |
| SGCC-31 | ASG Industries       | SGCC-85  | Libbey-Owens-Ford   |
| SGCC-33 | ASG Industries       | SGCC-86  | ASG Industries      |
| SGCC-34 | Fourco Glass         | SGCC-87  | Globe-Amerada       |
| SGCC-35 | Fourco Glass         | SGCC-88  | Laminated Glass     |
| SGCC-36 | Fourco Glass         | SGCC-89  | ASG Industries      |
| SGCC-37 | Vidrierias De Llodio | SGCC-90  | ASG Industries      |
| SGCC-38 | Vidrierias De Llodio | SGCC-91  | ASG Industries      |
| SGCC-39 | Guardian Industries  | SGCC-92  | Virginia Glass      |
| SGCC-40 | Guardian Industries  | SGCC-93  | Virginia Glass      |
| SGCC-41 | Guardian Industries  | SGCC-94  | Virginia Glass      |
| SGCC-42 | Guardian Industries  | SGCC-95  | Virginia Glass      |
| SGCC-43 | Guardian Industries  | SGCC-96  | Guardian Industries |
| SGCC-44 | Guardian Industries  | SGCC-97  | Guardian Industries |
| SGCC-45 | Globe-Amerada        | SGCC-98  | Guardian Industries |
| SGCC-46 | Asahi Glass          | SGCC-99  | K-S-H               |
| SGCC-47 | C-E Glass            | SGCC-102 | PPG Industries      |
| SGCC-49 | C-E Glass            | SGCC-103 | ASG Industries      |
| SGCC-50 | C-E Glass            | SGCC-104 | Glass Guard         |
| SGCC-51 | C-E Glass            | SGCC-105 | Glass Guard         |
| SGCC-53 | C-E Glass            | SGCC-108 | C-E Glass           |
| SGCC-54 | Hamilton of Indiana  | SGCC-109 | C-E Glass           |
| SGCC-55 | Hamilton of Indiana  | SGCC-110 | C-E Glass           |
| SGCC-56 | Hamilton of Indiana  | SGCC-111 | C-E Glass           |
| SGCC-57 | Hamilton of Indiana  | SGCC-112 | C-E Glass           |
| SGCC-58 | PPG Industries       | SGCC-113 | C-E Glass           |
| SGCC-59 | PPG Industries       | SGCC-114 | PPG Industries      |
| SGCC-60 | PPG Industries       | SGCC-115 | Asahi Glass         |
| SGCC-61 | PPG Industries       | SGCC-116 | Asahi Glass         |
| SGCC-62 | PPG Industries       | SGCC-117 | Asahi Glass         |



# CERTIFIED PRODUCTS

(NUMERICAL SEQUENCE)

|          |                     |          |                        |
|----------|---------------------|----------|------------------------|
| SGCC-118 | Flex-O-Glass        | SGCC-173 | Sheffield Plastics     |
| SGCC-120 | Rowland Products    | SGCC-174 | K-S-H                  |
| SGCC-123 | Scanglas            | SGCC-176 | Central Glass          |
| SGCC-124 | C-E Glass           | SGCC-177 | Taiwan Glass           |
| SGCC-125 | C-E Glass           | SGCC-178 | K-S-H                  |
| SGCC-126 | Libbey-Owens-Ford   | SGCC-180 | Asahi Glass            |
| SGCC-127 | Hamilton of Indiana | SGCC-181 | Chromalloy-Safetee     |
| SGCC-128 | Hamilton of Indiana | SGCC-182 | Chromalloy-Safetee     |
| SGCC-129 | Hamilton of Indiana | SGCC-183 | American Cyanamid      |
| SGCC-130 | Guardian Industries | SGCC-184 | C-E Glass              |
| SGCC-131 | Guardian Industries | SGCC-185 | Ohio Plate Glass       |
| SGCC-132 | C-E Glass           | SGCC-186 | Ohio Plate Glass       |
| SGCC-133 | C-E Glass           | SGCC-187 | Ohio Plate Glass       |
| SGCC-135 | Guardian Industries | SGCC-188 | Ohio Plate Glass       |
| SGCC-136 | K-S-H               | SGCC-189 | Taylor Products        |
| SGCC-137 | C-E Glass           | SGCC-190 | Taylor Products        |
| SGCC-138 | C-E Glass           | SGCC-191 | Taylor Products        |
| SGCC-140 | Minex-Poland        | SGCC-192 | Taylor Products        |
| SGCC-141 | ASG Industries      | SGCC-194 | PPG Industries         |
| SGCC-143 | ASG Industries      | SGCC-195 | PPG Industries         |
| SGCC-144 | C-E Glass           | SGCC-196 | PPG Industries         |
| SGCC-145 | C-E Glass           | SGCC-197 | Nippon Sheet Glass     |
| SGCC-146 | C-E Glass           | SGCC-198 | Nippon Sheet Glass     |
| SGCC-147 | Dearborn Glass      | SGCC-199 | Nippon Sheet Glass     |
| SGCC-148 | Windor Industries   | SGCC-200 | PPG Industries         |
| SGCC-149 | Windor Industries   | SGCC-201 | C-E Glass              |
| SGCC-150 | Libbey-Owens-Ford   | SGCC-202 | Plaskolite             |
| SGCC-151 | Libbey-Owens-Ford   | SGCC-203 | Ohio Plate Glass       |
| SGCC-152 | Plaskolite          | SGCC-204 | Armour Laminated Glass |
| SGCC-153 | Rohm and Haas       | SGCC-205 | Armour Laminated Glass |
| SGCC-154 | Rohm and Haas       | SGCC-206 | Armour Laminated Glass |
| SGCC-155 | Chromalloy-Safetee  | SGCC-207 | Armour Laminated Glass |
| SGCC-157 | Chromalloy-Safetee  | SGCC-208 | Armour Laminated Glass |
| SGCC-158 | Chromalloy-Safetee  | SGCC-209 | Canadian Pittsburgh    |
| SGCC-160 | Guardian Industries | SGCC-210 | Robeco Products        |
| SGCC-161 | Central Glass       | SGCC-212 | K-S-H                  |
| SGCC-162 | Southern Plastics   | SGCC-213 | Fourco Glass           |
| SGCC-163 | Fourco Glass        | SGCC-214 | N. V. Hardmaas         |
| SGCC-164 | Fourco Glass        | SGCC-215 | N. V. Hardmaas         |
| SGCC-165 | C-E Glass           | SGCC-217 | ASG Industries         |
| SGCC-166 | C-E Glass           | SGCC-219 | PPG Industries         |
| SGCC-167 | Rohm and Haas       | SGCC-220 | ASG Industries         |
| SGCC-168 | C-E Glass           | SGCC-221 | K-S-H                  |
| SGCC-170 | Plaskolite          | SGCC-222 | Safelite Industries    |
| SGCC-171 | Fehr Brothers       | SGCC-224 | ASG Industries         |

# CERTIFIED PRODUCTS

(NUMERICAL SEQUENCE)

|          |                     |          |                     |
|----------|---------------------|----------|---------------------|
| SGCC-225 | Safelite Industries | SGCC-251 | Canadian Pittsburgh |
| SGCC-226 | Seraphic            | SGCC-252 | Tyre Brothers       |
| SGCC-227 | Viracon             | SGCC-253 | Tyre Brothers       |
| SGCC-228 | Viracon             | SGCC-254 | Tyre Brothers       |
| SGCC-229 | Tuf-flex            | SGCC-255 | Tyre Brothers       |
| SGCC-230 | Central Glass       | SGCC-256 | Tyre Brothers       |
| SGCC-232 | Viracon             | SGCC-257 | Tuf-flex            |
| SGCC-233 | Viracon             | SGCC-258 | Tuf-flex            |
| SGCC-234 | Seraphic            | SGCC-259 | Paulding Glass      |
| SGCC-235 | PPG Industries      | SGCC-260 | Paulding Glass      |
| SGCC-236 | C-E Glass           | SGCC-261 | Paulding Glass      |
| SGCC-237 | Safelite Industries | SGCC-262 | Dura Vue Industries |
| SGCC-238 | Ohio Plate Glass    | SGCC-263 | Guardian Industries |
| SGCC-239 | Visador             | SGCC-264 | Guardian Industries |
| SGCC-240 | Dearborn Glass      | SGCC-265 | C-E Glass           |
| SGCC-242 | T-O-W Industries    | SGCC-266 | PPG Industries      |
| SGCC-243 | T-O-W Industries    | SGCC-267 | PPG Industries      |
| SGCC-244 | C-E Glass           | SGCC-268 | C-E Glass           |
| SGCC-245 | C-E Glass           | SGCC-269 | Tudor Safety        |
| SGCC-246 | C-E Glass           | SGCC-270 | Tuf-flex            |
| SGCC-247 | Hamilton of Indiana | SGCC-271 | Paulding Glass      |
| SGCC-248 | PPG Industries      | SGCC-272 | PPG Industries      |
| SGCC-249 | PPG Industries      | SGCC-273 | PPG Industries      |
| SGCC-250 | PPG Industries      |          |                     |

# CERTIFIED PRODUCTS

(ALPHABETICAL BY PLANT)

For listing by product type, please see page 17.

American Cyanamid Company; Sanford, Maine

|          |  |                |
|----------|--|----------------|
| SGCC-183 | 0.080 inch and greater thicknesses smooth cast acrylic | Unlimited size |
|----------|--|----------------|

Armour Laminated Glass Company; Santa Fe Springs, California

|          |  |                |
|----------|--|----------------|
| SGCC-204 | 3/16 inch tempered transparent glass       | Unlimited size |
| SGCC-205 | 1/4 inch tempered transparent glass        | Unlimited size |
| SGCC-206 | 7/32 inch tempered pattern glass (Aquatex) | Unlimited size |
| SGCC-207 | 1/4 inch laminated transparent glass       | Unlimited size |
| SGCC-208 | 1/2 inch laminated transparent glass       | Unlimited size |

Asahi Glass Company, Ltd.; Tokyo, Japan

|          |  |                |
|----------|--|----------------|
| SGCC-46  | 3/16 inch tempered transparent glass                 | Unlimited size |
| SGCC-116 | SS/DS laminated transparent glass                    | Unlimited size |
| SGCC-115 | 1/4 inch laminated transparent glass                 | Unlimited size |
| SGCC-117 | 1/4 inch polished wire glass (3/4 inch diamond mesh) | Unlimited size |
| SGCC-180 | 1/4 inch polished wire glass (1/2 inch square mesh)  | Unlimited size |

ASG Industries, Inc.; Greenland, Tennessee

|          |                                      |                |
|----------|--------------------------------------|----------------|
| SGCC-224 | 1/8 inch tempered transparent glass  | Unlimited size |
| SGCC-220 | 3/16 inch tempered transparent glass | Unlimited size |
| SGCC-89  | 1/4 inch tempered transparent glass  | Unlimited size |
| SGCC-90  | 3/8 inch tempered transparent glass  | Unlimited size |
| SGCC-91  | 1/2 inch tempered transparent glass  | Unlimited size |
| SGCC-143 | 3/4 inch tempered transparent glass  | Unlimited size |

ASG Industries, Inc.; Kingsport, Tennessee

|          |   |                |
|----------|---|----------------|
| SGCC-28  | 3/16 inch tempered transparent glass                        | Unlimited size |
| SGCC-24  | 1/4 inch tempered transparent glass                         | Unlimited size |
| SGCC-30  | 3/8 inch tempered transparent glass                         | Unlimited size |
| SGCC-141 | 1/8 inch tempered pattern glass (Finetex)                   | Unlimited size |
| SGCC-33  | 3/16 inch tempered pattern glass (Aquatex)                  | Unlimited size |
| SGCC-31  | 210 inch tempered pattern glass (Aquatex)                   | Unlimited size |
| SGCC-25  | 7/32 inch tempered pattern glass (Aquatex)                  | Unlimited size |
| SGCC-27  | 7/32 inch laminated transparent glass                       | Unlimited size |
| SGCC-26  | 1/4 inch laminated transparent glass                        | Unlimited size |
| SGCC-86  | 1/4 inch polished wire glass (3/4 inch diamond mesh)        | Unlimited size |
| SGCC-217 | 1/4 inch polished wire glass (pinstripe, 1/2 inch parallel) | Unlimited size |
| SGCC-103 | 7/32 inch pattern wire glass (pinstripe; 1/2 inch parallel) | Unlimited size |

C-E Glass; Atlanta, Georgia

|          |  |                |
|----------|--|----------------|
| SGCC-124 | 3/16 inch tempered transparent glass         | Unlimited size |
| SGCC-108 | 1/4 inch tempered transparent glass          | Unlimited size |
| SGCC-125 | 210 inch tempered pattern glass (Spray Lite) | Unlimited size |



|                                    |           |  |                    |
|------------------------------------|-----------|--|--------------------|
| C-E Glass; Bensenville, Illinois   |           |  |                    |
| SGCC-165                           | 3/16 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-166                           | 1/4 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-168                           | 210 inch  | tempered pattern glass (Spray Lite)        | 28" by 54"         |
| C-E Glass; Casselberry, Florida    |           |  |                    |
| SGCC-244                           | 210 inch  | tempered pattern glass (Spray Lite)        | 28" by 54"         |
| C-E Glass; Cinnaminson, New Jersey |           |  |                    |
| SGCC-245                           | 3/16 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-246                           | 1/4 inch  | tempered transparent glass                 | 31 3/8" by 76 3/4" |
| SGCC-265                           | 210 inch  | tempered pattern glass (Spray Lite)        | 28" by 68"         |
| C-E Glass; Fullerton, California   |           |  |                    |
| SGCC-236                           | 7/32 inch | tempered pattern glass (P-516)             | Unlimited size     |
| C-E Glass; Houston, Texas          |           |  |                    |
| SGCC-110                           | 3/16 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-137                           | 1/4 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-138                           | 210 inch  | tempered pattern glass (Spray Lite)        | Unlimited size     |
| C-E Glass; Lancaster, Ohio         |           |  |                    |
| SGCC-184                           | 1/8 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-145                           | 3/16 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-146                           | 1/4 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-144                           | 210 inch  | tempered pattern glass (Spray Lite)        | Unlimited size     |
| C-E Glass; Long Beach, California  |           |  |                    |
| SGCC-111                           | 3/16 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-112                           | 1/4 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-113                           | 210 inch  | tempered pattern glass (Spray Lite)        | Unlimited size     |
| C-E Glass; Miami, Florida          |           |  |                    |
| SGCC-76                            | 3/16 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-77                            | 7/32 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-49                            | 1/4 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-50                            | 210 inch  | tempered pattern glass (Spray Lite)        | Unlimited size     |
| C-E Glass; Pennsauken, New Jersey  |           |  |                    |
| SGCC-51                            | 1/8 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-133                           | 3/16 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-53                            | 1/4 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-132                           | 210 inch  | tempered pattern glass (Spray Lite)        | 28" by 54"         |
| C-E Glass; Shawnee, Oklahoma       |           |  |                    |
| SGCC-268                           | 1/4 inch  | polished wire glass (1/2 inch square mesh) | Unlimited size     |
| C-E Glass; Tampa, Florida          |           |  |                    |
| SGCC-109                           | 3/16 inch | tempered transparent glass                 | Unlimited size     |
| SGCC-47                            | 1/4 inch  | tempered transparent glass                 | Unlimited size     |
| SGCC-201                           | 210 inch  | tempered pattern glass (Spray Lite)        | Unlimited size     |

Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario

SGCC-251 1/8 inch tempered transparent glass

Unlimited size

SGCC-209 3/16 inch tempered transparent glass

Unlimited size

Central Glass Company, Ltd.; Japan

SGCC-176 1/8 inch tempered transparent glass

24" by 48"

SGCC-230 1/8 inch tempered transparent glass

27 5/8" by 36 1/2"

SGCC-161 1/4 inch polished wire glass (3/4 inch diamond mesh)

Unlimited size

Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania

SGCC-155 3/16 inch tempered transparent glass

Unlimited size

SGCC-157 1/4 inch tempered transparent glass

Unlimited size

SGCC-181 3/8 inch tempered transparent glass

Unlimited size

SGCC-182 1/2 inch tempered transparent glass

Unlimited size

Chromalloy-Safetee Glass Division; Philadelphia, Pennsylvania

SGCC-158 7/32 inch laminated transparent glass

Unlimited size

Dearborn Glass Company; Bedford Park, Illinois

SGCC-240 3/16 inch tempered transparent glass

24" by 34"

SGCC-147 7/32 inch laminated transparent glass

Unlimited size

Dura Vue Industries, Inc.; Chicago, Illinois

SGCC-262 3/16 inch tempered transparent glass

Unlimited size

Feather-lite Manufacturing Company; Hot Springs, Arkansas

SGCC-11 3/16 inch tempered transparent glass

Unlimited size

Fehr Brothers, Inc.; Japan

SGCC-171 0.080 inch and greater thicknesses smooth extruded acrylic

Unlimited size

Flex-O-Glass, Inc.; Dixon, Illinois

SGCC-118 0.080 inch through 0.125 inch smooth extruded acrylic

Unlimited size

Fourco Glass Company; Clarksburg, West Virginia

SGCC-163 3/16 inch tempered transparent glass

Unlimited size

SGCC-164 7/32 inch tempered transparent glass

Unlimited size

SGCC-213 1/4 inch tempered transparent glass

Unlimited size

Fourco Glass Company; Fort Smith, Arkansas

SGCC-36 3/16 inch tempered transparent glass

Unlimited size

SGCC-35 7/32 inch tempered transparent glass

Unlimited size

SGCC-34 1/4 inch tempered transparent glass

Unlimited size

Glass Guard Industries, Inc.; Webster, Massachusetts

SGCC-104 3/16 inch tempered transparent glass

Unlimited size

SGCC-105 1/4 inch tempered transparent glass

Unlimited size

S. A. Glaverbel; Bruxelles, Belgium

SGCC-16 3/16 inch tempered transparent glass

Unlimited size

Globe-Amerada Glass Company; Elk Grove Village, Illinois

|         |            |                             |                |
|---------|------------|-----------------------------|----------------|
| SGCC-87 | 0.145 inch | laminated transparent glass | 34" by 40"     |
| SGCC-45 | 7/32 inch  | laminated transparent glass | Unlimited size |

Guardian Industries Corporation; Carleton, Michigan

|          |           |                            |                |
|----------|-----------|----------------------------|----------------|
| SGCC-135 | 3/16 inch | tempered transparent glass | Unlimited size |
| SGCC-131 | 1/4 inch  | tempered transparent glass | Unlimited size |
| SGCC-160 | 3/8 inch  | tempered transparent glass | Unlimited size |
| SGCC-263 | 1/2 inch  | tempered transparent glass | Unlimited size |

Guardian Industries Corporation; Fort Lauderdale, Florida

|         |           |                                  |                |
|---------|-----------|----------------------------------|----------------|
| SGCC-78 | 3/16 inch | tempered transparent glass       | Unlimited size |
| SGCC-39 | 7/32 inch | tempered transparent glass       | Unlimited size |
| SGCC-40 | 1/4 inch  | tempered transparent glass       | Unlimited size |
| SGCC-41 | 3/8 inch  | tempered transparent glass       | Unlimited size |
| SGCC-42 | 7/32 inch | tempered pattern glass (Aquatex) | Unlimited size |

Guardian Industries Corporation; Millbury, Ohio

|          |           |                            |                |
|----------|-----------|----------------------------|----------------|
| SGCC-83  | 3/16 inch | tempered transparent glass | Unlimited size |
| SGCC-130 | 1/4 inch  | tempered transparent glass | Unlimited size |

Guardian Industries Corporation; Torrance, California

|          |           |                                  |                |
|----------|-----------|----------------------------------|----------------|
| SGCC-44  | 3/16 inch | tempered transparent glass       | Unlimited size |
| SGCC-96  | 7/32 inch | tempered transparent glass       | Unlimited size |
| SGCC-43  | 1/4 inch  | tempered transparent glass       | Unlimited size |
| SGCC-97  | 3/8 inch  | tempered transparent glass       | Unlimited size |
| SGCC-98  | 1/2 inch  | tempered transparent glass       | Unlimited size |
| SGCC-264 | 7/32 inch | tempered pattern glass (Aquatex) | Unlimited size |

Hamilton of Indiana, Inc.; Vincennes, Indiana

|          |           |                                     |                |
|----------|-----------|-------------------------------------|----------------|
| SGCC-54  | 1/8 inch  | tempered transparent glass          | Unlimited size |
| SGCC-56  | 3/16 inch | tempered transparent glass          | Unlimited size |
| SGCC-55  | 7/32 inch | tempered transparent glass          | Unlimited size |
| SGCC-57  | 1/4 inch  | tempered transparent glass          | Unlimited size |
| SGCC-127 | 3/8 inch  | tempered transparent glass          | Unlimited size |
| SGCC-128 | 1/2 inch  | tempered transparent glass          | Unlimited size |
| SGCC-247 | 1/8 inch  | tempered pattern glass (Pattern 62) | Unlimited size |
| SGCC-129 | 210 inch  | tempered pattern glass (Aquatex)    | Unlimited size |

N. V. Hardmaas; Holland

|          |           |                                       |                |
|----------|-----------|---------------------------------------|----------------|
| SGCC-214 | 5/32 inch | tempered transparent glass (32 ounce) | 32" by 39 7/8" |
| SGCC-215 | 1/4 inch  | tempered transparent glass            | Unlimited size |

Intercosmic Plastics; Division of ICP Industries, Inc.; Miami, Florida

|         |            |  |                |
|---------|------------|--|----------------|
| SGCC-17 | 0.090 inch | through 3/16 inch pattern extruded plastic (Seafair)<br>(for <u>indoor</u> use <u>only</u> ) | Unlimited size |
|---------|------------|--|----------------|

|  |   |  |                |
|--|---|--|----------------|
| K-S-H, Inc.; Crestwood, Missouri               |   |  |                |
| SGCC-174                                       | 0.060 inch through 0.125 inch smooth extruded acrylic   |  | Unlimited size |
| SGCC-99  | 0.100 inch through 3/16 inch pattern extruded plastic (Glacial)<br>(for <u>indoor use only</u> )              |  | Unlimited size |
| K-S-H, Inc.; Fredericksburg, Virginia          |   |  |                |
| SGCC-178                                       | 0.100 inch through 0.130 inch pattern extruded plastic<br>(for <u>indoor use only</u> ) (Calypso and Roundel) |  | Unlimited size |
| K-S-H, Inc.; Tustin, California                |   |  |                |
| SGCC-212                                       | 0.060 inch through 0.125 inch smooth extruded acrylic   |  | Unlimited size |
| SGCC-221                                       | 0.100 inch through 3/16 inch pattern extruded plastic<br>(for <u>indoor use only</u> ) (Calypso and Glacial)  |  | Unlimited size |
| K-S-H, Inc.; Xenia, Ohio                       |   |  |                |
| SGCC-136                                       | 0.060 inch through 0.125 inch smooth extruded acrylic   |  | Unlimited size |
| Laminated Glass Corporation; Detroit, Michigan |   |  |                |
| SGCC-88  | 7/32 inch laminated transparent glass   |  | Unlimited size |
| Libbey-Owens-Ford Company; East Toledo, Ohio   |   |  |                |
| SGCC-23  | SS/SS laminated transparent glass   |  | Unlimited size |
| SGCC-22  | SS/DS laminated transparent glass   |  | Unlimited size |
| SGCC-82  | 1/4 inch laminated transparent glass  |  | Unlimited size |
| SGCC-126                                       | 1/2 inch laminated transparent glass  |  | Unlimited size |
| Libbey-Owens-Ford Company; Lathrop, California |   |  |                |
| SGCC-84  | 3/16 inch tempered transparent glass  |  | Unlimited size |
| SGCC-85  | 1/4 inch tempered transparent glass   |  | Unlimited size |
| Libbey-Owens-Ford Company; Rossford, Ohio      |   |  |                |
| SGCC-21  | 1/8 inch tempered transparent glass   |  | Unlimited size |
| SGCC-20  | 3/16 inch tempered transparent glass  |  | Unlimited size |
| SGCC-19  | 1/4 inch tempered transparent glass   |  | Unlimited size |
| SGCC-150                                       | 1/2 inch tempered transparent glass   |  | Unlimited size |
| SGCC-151                                       | 3/4 inch tempered transparent glass   |  | Unlimited size |
| Minex-Poland; Poland                           |   |  |                |
| SGCC-140                                       | 210 inch tempered pattern glass (Pattern 100)   |  | Unlimited size |
| Nippon Sheet Glass Company Ltd.; Japan         |   |  |                |
| SGCC-198                                       | 3/16 inch tempered transparent glass  |  | Unlimited size |
| SGCC-197                                       | 1/4 inch polished wire glass (1/2 inch square mesh)   |  | Unlimited size |
| SGCC-199                                       | 1/4 inch polished wire glass (3/4 inch diamond mesh)  |  | Unlimited size |



|   |      |      |   |                |
|---|------|------|---|----------------|
| Ohio Plate Glass Company; Lewisburg, Ohio     |      |      |   | Unlimited size |
| SGCC-187                                      | 1/8  | inch | tempered transparent glass              | Unlimited size |
| SGCC-185                                      | 3/16 | inch | tempered transparent glass              | Unlimited size |
| SGCC-186                                      | 1/4  | inch | tempered transparent glass              | Unlimited size |
| SGCC-203                                      | 1/8  | inch | tempered pattern glass (Ribbed)         | Unlimited size |
| SGCC-188                                      | 3/16 | inch | tempered pattern glass (Pattern 62)     | Unlimited size |
| SGCC-238                                      | 7/32 | inch | tempered pattern glass (Textured Linex) | Unlimited size |
| PPG Industries, Inc.; Carlisle, Pennsylvania  |      |      |   |                |
| SGCC-250                                      | 1/8  | inch | tempered transparent glass              | Unlimited size |
| SGCC-249                                      | 3/16 | inch | tempered transparent glass              | Unlimited size |
| PPG Industries, Inc.; Chicago, Illinois       |      |      |   |                |
| SGCC-266                                      | 3/16 | inch | tempered transparent glass              | Unlimited size |
| SGCC-267                                      | 1/4  | inch | tempered transparent glass              | Unlimited size |
| SGCC-272                                      | 3/8  | inch | tempered transparent glass              | Unlimited size |
| SGCC-273                                      | 1/2  | inch | tempered transparent glass              | Unlimited size |
| PPG Industries, Inc.; Creighton, Pennsylvania |      |      |   |                |
| SGCC-114                                      | 1/4  | inch | laminated transparent glass             | Unlimited size |
| PPG Industries, Inc.; Crestline, Ohio         |      |      |   |                |
| SGCC-60                                       | 1/8  | inch | tempered transparent glass              | 26 3/4" by 72" |
| SGCC-65                                       | 3/16 | inch | tempered transparent glass              | 26 3/4" by 72" |
| SGCC-102                                      | 1/4  | inch | tempered transparent glass              | 26 3/4" by 72" |
| SGCC-235                                      | 3/16 | inch | tempered pattern glass (Roundel)        | 26 3/4" by 72" |
| PPG Industries, Inc.; Ford City, Pennsylvania |      |      |   |                |
| SGCC-61                                       | 3/16 | inch | tempered transparent glass              | Unlimited size |
| SGCC-66                                       | 7/32 | inch | tempered transparent glass              | Unlimited size |
| SGCC-70                                       | 1/4  | inch | tempered transparent glass              | Unlimited size |
| SGCC-74                                       | 3/8  | inch | tempered transparent glass              | Unlimited size |
| SGCC-75                                       | 1/2  | inch | tempered transparent glass              | Unlimited size |
| SGCC-248                                      | 3/4  | inch | tempered transparent glass              | Unlimited size |
| PPG Industries, Inc.; Fresno, California      |      |      |   |                |
| SGCC-64                                       | 3/16 | inch | tempered transparent glass              | Unlimited size |
| SGCC-73                                       | 1/4  | inch | tempered transparent glass              | Unlimited size |
| PPG Industries, Inc.; Miami, Florida          |      |      |   |                |
| SGCC-195                                      | 3/16 | inch | tempered transparent glass              | Unlimited size |
| SGCC-194                                      | 1/4  | inch | tempered transparent glass              | Unlimited size |
| SGCC-196                                      | 3/8  | inch | tempered transparent glass              | Unlimited size |
| SGCC-200                                      | 1/2  | inch | tempered transparent glass              | Unlimited size |
| SGCC-219                                      | 7/32 | inch | tempered pattern glass (Smooth Rough)   | Unlimited size |

PPG Industries, Inc.; Mt. Vernon, Ohio

|         |           |                            |                |
|---------|-----------|----------------------------|----------------|
| SGCC-58 | 1/8 inch  | tempered transparent glass | Unlimited size |
| SGCC-62 | 3/16 inch | tempered transparent glass | Unlimited size |
| SGCC-71 | 1/4 inch  | tempered transparent glass | Unlimited size |

PPG Industries, Inc.; Mt. Zion, Illinois

|         |           |                            |                |
|---------|-----------|----------------------------|----------------|
| SGCC-59 | 1/8 inch  | tempered transparent glass | Unlimited size |
| SGCC-63 | 3/16 inch | tempered transparent glass | Unlimited size |
| SGCC-72 | 1/4 inch  | tempered transparent glass | Unlimited size |

Paulding Glass Products, Inc.; Paulding, Ohio

|          |           |                                  |                |
|----------|-----------|----------------------------------|----------------|
| SGCC-271 | 3/16 inch | tempered transparent glass       | Unlimited size |
| SGCC-259 | 1/4 inch  | tempered transparent glass       | Unlimited size |
| SGCC-260 | 3/8 inch  | tempered transparent glass       | Unlimited size |
| SGCC-261 | 210 inch  | tempered pattern glass (Aquatex) | Unlimited size |

Plaskolite, Inc.; Columbus, Ohio

|          |                               |   |                |
|----------|-------------------------------|---|----------------|
| SGCC-152 | 0.080 inch through 0.125 inch | smooth extruded acrylic                                   | Unlimited size |
| SGCC-170 | 0.080 inch through 0.125 inch | smooth extruded plastic<br>(for indoor use only)          | Unlimited size |
| SGCC-202 | 0.080 inch                    | pattern extruded plastic (L-100)<br>(for indoor use only) | Unlimited size |

Robeco Products, Inc.; Taiwan

|          |                                    |                     |                |
|----------|------------------------------------|---------------------|----------------|
| SGCC-210 | 0.080 inch and greater thicknesses | smooth cast acrylic | Unlimited size |
|----------|------------------------------------|---------------------|----------------|

Rohm and Haas Company; Bristol, Pennsylvania

|          |                               |                     |                |
|----------|-------------------------------|---------------------|----------------|
| SGCC-167 | 0.080 inch through 0.125 inch | smooth cast acrylic | Unlimited size |
|----------|-------------------------------|---------------------|----------------|

Rohm and Haas Company; Louisville, Kentucky

|          |                               |                     |                |
|----------|-------------------------------|---------------------|----------------|
| SGCC-154 | 0.080 inch through 0.187 inch | smooth cast acrylic | Unlimited size |
|----------|-------------------------------|---------------------|----------------|

Rohm and Haas Company; Knoxville, Tennessee

|          |                                    |                     |                |
|----------|------------------------------------|---------------------|----------------|
| SGCC-153 | 0.080 inch and greater thicknesses | smooth cast acrylic | Unlimited size |
|----------|------------------------------------|---------------------|----------------|

Rowland Products, Inc.; Kensington, Connecticut

|          |                                    |                               |                |
|----------|------------------------------------|-------------------------------|----------------|
| SGCC-120 | 0.090 inch and greater thicknesses | smooth extruded polycarbonate | Unlimited size |
|----------|------------------------------------|-------------------------------|----------------|

Safelite Industries; Denver, Colorado

|          |           |                             |                |
|----------|-----------|-----------------------------|----------------|
| SGCC-222 | 7/32 inch | laminated transparent glass | Unlimited size |
| SGCC-237 | 1/4 inch  | laminated transparent glass | Unlimited size |

Safelite Industries; Wichita, Kansas

|          |          |                            |                |
|----------|----------|----------------------------|----------------|
| SGCC-225 | 1/8 inch | tempered transparent glass | Unlimited size |
|----------|----------|----------------------------|----------------|

|  |                               |  |                |
|--|-------------------------------|--|----------------|
| Saint Gobain; France                                 |                               |  |                |
| SGCC-81  | 3/16 inch                     | tempered transparent glass   | Unlimited size |
| SGCC-80  | 7/32 inch                     | tempered transparent glass   | Unlimited size |
| Scanglas A/S; Korsor, Denmark                        |                               |  |                |
| SGCC-123   | 3/16 inch                     | tempered transparent glass   | Unlimited size |
| Seraphic (Aust.) Pty. Ltd.; South Australia          |                               |  |                |
| SGCC-226   | 3/16 inch                     | tempered transparent glass   | Unlimited size |
| SGCC-234   | 1/4 inch                      | tempered transparent glass   | Unlimited size |
| Sheffield Plastics, Inc.; Sheffield, Massachusetts   |                               |  |                |
| SGCC-173   | 0.080 inch through 0.125 inch | smooth extruded acrylic  | Unlimited size |
| Southern Plastics Company; Columbia, South Carolina  |                               |  |                |
| SGCC-162   | 0.080 inch through 0.125 inch | smooth extruded acrylic  | Unlimited size |
| SGCC-18  | 0.090 inch                    | pattern extruded plastic (cracked ice)<br>(for <u>indoor</u> use <u>only</u> ) | Unlimited size |
| Taiwan Glass Corporation; Taiwan                     |                               |  |                |
| SGCC-177   | 3/16 inch                     | tempered transparent glass   | Unlimited size |
| Taylor Products, Inc.; Payne, Ohio                   |                               |  |                |
| SGCC-190   | 3/16 inch                     | tempered transparent glass   | Unlimited size |
| SGCC-192   | 7/32 inch                     | tempered transparent glass   | Unlimited size |
| SGCC-189   | 1/4 inch                      | tempered transparent glass   | Unlimited size |
| SGCC-191   | 210 inch                      | tempered pattern glass (Industrex)   | Unlimited size |
| T-O-W Industries, Inc.; Chicago, Illinois            |                               |  |                |
| SGCC-242   | 3/16 inch                     | tempered transparent glass   | Unlimited size |
| SGCC-243   | 1/4 inch                      | tempered transparent glass   | Unlimited size |
| Tudor Safety Glass Company Limited; England          |                               |  |                |
| SGCC-269   | 1/4 inch                      | laminated transparent glass  | Unlimited size |
| Tuf-flex Glass, Inc.; Elmhurst, Illinois             |                               |  |                |
| SGCC-257   | 3/16 inch                     | tempered transparent glass   | Unlimited size |
| SGCC-229   | 1/4 inch                      | tempered transparent glass   | Unlimited size |
| SGCC-258   | 3/8 inch                      | tempered transparent glass   | Unlimited size |
| SGCC-270   | 1/2 inch                      | tempered transparent glass   | Unlimited size |
| Tyre Brothers Glass Company; Los Angeles, California |                               |  |                |
| SGCC-252   | 3/16 inch                     | tempered transparent glass   | Unlimited size |
| SGCC-253   | 1/4 inch                      | tempered transparent glass   | Unlimited size |
| SGCC-254   | 3/8 inch                      | tempered transparent glass   | Unlimited size |
| SGCC-255   | 1/2 inch                      | tempered transparent glass   | Unlimited size |
| SGCC-256   | 7/32 inch                     | tempered pattern glass (Smooth Rough)  | Unlimited size |

Vidrierias De Llodio, S.A.; Spain

|         |           |                            |                |
|---------|-----------|----------------------------|----------------|
| SGCC-38 | 3/16 inch | tempered transparent glass | Unlimited size |
| SGCC-37 | 7/32 inch | tempered transparent glass | Unlimited size |

Viracon, Inc.; Owatonna, Minnesota

|          |           |                             |                |
|----------|-----------|-----------------------------|----------------|
| SGCC-227 | 3/16 inch | tempered transparent glass  | Unlimited size |
| SGCC-228 | 1/4 inch  | tempered transparent glass  | Unlimited size |
| SGCC-233 | SS/DS     | laminated transparent glass | Unlimited size |
| SGCC-232 | 1/4 inch  | laminated transparent glass | Unlimited size |

Virginia Glass Products Corporation; Martinsville, Virginia

|         |           |                                 |                |
|---------|-----------|---------------------------------|----------------|
| SGCC-12 | 3/16 inch | tempered transparent glass      | Unlimited size |
| SGCC-13 | 7/32 inch | tempered transparent glass      | Unlimited size |
| SGCC-14 | 1/4 inch  | tempered transparent glass      | Unlimited size |
| SGCC-93 | 3/8 inch  | tempered transparent glass      | Unlimited size |
| SGCC-94 | 1/2 inch  | tempered transparent glass      | Unlimited size |
| SGCC-95 | 3/4 inch  | tempered transparent glass      | Unlimited size |
| SGCC-92 | 7/32 inch | tempered pattern glass (Velvex) | Unlimited size |

Visador Company; Jasper, Texas

|          |          |  |            |
|----------|----------|--|------------|
| SGCC-239 | 1/8 inch | annealed glass; 0.016 inch patterned plastic coating | 20" by 34" |
|----------|----------|--|------------|

Windor Industries, Inc.; Toledo, Ohio

|          |           |                            |                |
|----------|-----------|----------------------------|----------------|
| SGCC-149 | 1/8 inch  | tempered transparent glass | Unlimited size |
| SGCC-148 | 3/16 inch | tempered transparent glass | Unlimited size |



# CERTIFIED PRODUCTS

(BY PRODUCT)

For listing by manufacturing plant, please see page 8

## TEMPERED TRANSPARENT GLASS

### 1/8 inch tempered transparent glass

|   |          |                    |
|---|----------|--------------------|
| ASG Industries, Inc.; Greenland, Tennessee                | SGCC-224 | Unlimited size     |
| C-E Glass; Lancaster, Ohio                                | SGCC-184 | Unlimited size     |
| C-E Glass; Pennsauken, New Jersey                         | SGCC-51  | Unlimited size     |
| Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario | SGCC-251 | Unlimited size     |
| Central Glass Company, Ltd.; Japan                        | SGCC-176 | 24" by 48"         |
| Central Glass Company, Ltd.; Japan                        | SGCC-230 | 27 5/8" by 36 1/2" |
| Hamilton of Indiana, Inc.; Vincennes, Indiana             | SGCC-54  | Unlimited size     |
| Libbey-Owens-Ford Company; Rossford, Ohio                 | SGCC-21  | Unlimited size     |
| Ohio Plate Glass Company; Lewisburg, Ohio                 | SGCC-187 | Unlimited size     |
| PPG Industries, Inc.; Carlisle, Pennsylvania              | SGCC-250 | Unlimited size     |
| PPG Industries, Inc.; Crestline, Ohio                     | SGCC-60  | 26 3/4" by 72"     |
| PPG Industries, Inc.; Mt. Vernon, Ohio                    | SGCC-58  | Unlimited size     |
| PPG Industries, Inc.; Mt. Zion, Ohio                      | SGCC-59  | Unlimited size     |
| Safelite Industries; Wichita, Kansas                      | SGCC-225 | Unlimited size     |
| Windor Industries, Inc.; Toledo, Ohio                     | SGCC-149 | Unlimited size     |

### 5/32 inch tempered transparent glass (32 ounce)

|                         |          |                |
|-------------------------|----------|----------------|
| N. V. Hardmaas; Holland | SGCC-214 | 32" by 39 7/8" |
|-------------------------|----------|----------------|

### 3/16 inch tempered transparent glass

|   |          |                |
|---|----------|----------------|
| Armour Laminated Glass Co.; Santa Fe Springs, California  | SGCC-204 | Unlimited size |
| Asahi Glass Company, Ltd.; Toyko, Japan                   | SGCC-46  | Unlimited size |
| ASG Industries, Inc.; Greenland, Tennessee                | SGCC-220 | Unlimited size |
| ASG Industries, Inc.; Kingsport, Tennessee                | SGCC-28  | Unlimited size |
| C-E Glass; Atlanta, Georgia                               | SGCC-124 | Unlimited size |
| C-E Glass; Bensenville, Illinois                          | SGCC-165 | Unlimited size |
| C-E Glass; Cinnaaminson, New Jersey                       | SGCC-245 | Unlimited size |
| C-E Glass; Houston, Texas                                 | SGCC-110 | Unlimited size |
| C-E Glass; Lancaster, Ohio                                | SGCC-145 | Unlimited size |
| C-E Glass; Long Beach, California                         | SGCC-111 | Unlimited size |
| C-E Glass; Miami, Florida                                 | SGCC-76  | Unlimited size |
| C-E Glass; Pennsauken, New Jersey                         | SGCC-133 | Unlimited size |
| C-E Glass; Tampa, Florida                                 | SGCC-109 | Unlimited size |
| Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario | SGCC-209 | Unlimited size |
| Chromalloy Safetee Glass; King of Prussia, Pennsylvania   | SGCC-155 | Unlimited size |
| Dearborn Glass Company; Bedford Park, Illinois            | SGCC-240 | 24" by 34"     |
| Dura Vue Industries, Inc.; Chicago, Illinois              | SGCC-262 | Unlimited size |
| Feather-lite Manufacturing Co.; Hot Springs, Arkansas     | SGCC-11  | Unlimited size |
| Fourco Glass Company; Clarksburg, West Virginia           | SGCC-163 | Unlimited size |
| Fourco Glass Company; Fort Smith, Arkansas                | SGCC-36  | Unlimited size |
| Glass Guard Industries, Inc.; Webster, Massachusetts      | SGCC-104 | Unlimited size |
| S. A. Glaverbel; Bruxelles, Belgium                       | SGCC-16  | Unlimited size |
| Guardian Industries Corporation; Carleton, Michigan       | SGCC-135 | Unlimited size |
| Guardian Industries Corporation; Fort Lauderdale, Florida | SGCC-78  | Unlimited size |

|   |          |                    |
|---|----------|--------------------|
| Guardian Industries Corporation; Millbury, Ohio             | SGCC-83  | Unlimited size     |
| Guardian Industries Corporation; Torrance, California       | SGCC-44  | Unlimited size     |
| Hamilton of Indiana, Inc.; Vincennes, Indiana               | SGCC-56  | Unlimited size     |
| Libbey-Owens-Ford Company; Lathrop, California              | SGCC-84  | Unlimited size     |
| Libbey-Owens-Ford Company; Rossford, Ohio                   | SGCC-20  | Unlimited size     |
| Nippon Glass Company, Ltd.; Japan                           | SGCC-198 | Unlimited size     |
| Ohio Plate Glass Company; Lewisburg, Ohio                   | SGCC-185 | Unlimited size     |
| PPG Industries, Inc.; Carlisle, Pennsylvania                | SGCC-249 | Unlimited size     |
| PPG Industries, Inc.; Chicago, Illinois                     | SGCC-266 | Unlimited size     |
| PPG Industries, Inc.; Crestline, Ohio                       | SGCC-65  | 26 3/4" by 72"     |
| PPG Industries, Inc.; Ford City, Pennsylvania               | SGCC-61  | Unlimited size     |
| PPG Industries, Inc.; Fresno, California                    | SGCC-64  | Unlimited size     |
| PPG Industries, Inc.; Miami, Florida                        | SGCC-195 | Unlimited size     |
| PPG Industries, Inc.; Mt. Vernon, Ohio                      | SGCC-62  | Unlimited size     |
| PPG Industries, Inc.; Mt. Zion, Illinois                    | SGCC-63  | Unlimited size     |
| Paulding Glass Products, Inc.; Paulding, Ohio               | SGCC-271 | Unlimited size     |
| Saint Gobain; France  | SGCC-81  | Unlimited size     |
| Scanglas; Korsor, Denmark                                   | SGCC-123 | Unlimited size     |
| Seraphic (Aust.) Pty. Ltd.; South Australia                 | SGCC-226 | Unlimited size     |
| Taiwan Glass Corporation; Taiwan                            | SGCC-177 | Unlimited size     |
| Taylor Products, Inc.; Payne, Ohio                          | SGCC-190 | Unlimited size     |
| T-O-W Industries, Inc.; Chicago, Illinois                   | SGCC-242 | Unlimited size     |
| Tuf-flex Glass Inc.; Elmhurst, Illinois                     | SGCC-257 | Unlimited size     |
| Tyre Brothers Glass Company; Los Angeles, California        | SGCC-252 | Unlimited size     |
| Vidrierias De Llodio; Spain                                 | SGCC-38  | Unlimited size     |
| Viracon, Inc.; Owatonna, Minnesota                          | SGCC-227 | Unlimited size     |
| Virginia Glass Products Corporation; Martinsville, Virginia | SGCC-12  | Unlimited size     |
| Windor Industries, Inc.; Toledo, Ohio                       | SGCC-148 | Unlimited size     |
| <u>7/32 inch tempered transparent glass</u>                 |          |                    |
| C-E Glass; Miami, Florida                                   | SGCC-77  | Unlimited size     |
| Fourco Glass Company; Clarksburg, West Virginia             | SGCC-164 | Unlimited size     |
| Fourco Glass Company; Fort Smith, Arkansas                  | SGCC-35  | Unlimited size     |
| Guardian Industries Corporation; Fort Lauderdale, Florida   | SGCC-39  | Unlimited size     |
| Guardian Industries Corporation; Torrance, California       | SGCC-96  | Unlimited size     |
| Hamilton of Indiana, Inc.; Vincennes, Indiana               | SGCC-55  | Unlimited size     |
| PPG Industries, Inc.; Ford City, Pennsylvania               | SGCC-66  | Unlimited size     |
| Saint Gobain; France  | SGCC-80  | Unlimited size     |
| Taylor Products, Inc.; Payne, Ohio                          | SGCC-192 | Unlimited size     |
| Vidrierias De Llodio; Spain                                 | SGCC-37  | Unlimited size     |
| Virginia Glass Products Corporation; Martinsville, Virginia | SGCC-13  | Unlimited size     |
| <u>1/4 inch tempered transparent glass</u>                  |          |                    |
| Armour Laminated Glass Co. Santa Fe Springs, California     | SGCC-205 | Unlimited size     |
| ASG Industries, Inc.; Greenland, Tennessee                  | SGCC-89  | Unlimited size     |
| ASG Industries, Inc.; Kingsport, Tennessee                  | SGCC-24  | Unlimited size     |
| C-E Glass; Atlanta, Georgia                                 | SGCC-108 | Unlimited size     |
| C-E Glass; Bensenville, Illinois                            | SGCC-166 | Unlimited size     |
| C-E Glass; Cinnaminson, New Jersey                          | SGCC-246 | 31 3/8" by 76 3/4" |
| C-E Glass; Houston, Texas                                   | SGCC-137 | Unlimited size     |

|  |          |                |
|--|----------|----------------|
| C-E Glass; Lancaster, Ohio                                   | SGCC-146 | Unlimited size |
| C-E Glass; Long Beach, California                            | SGCC-112 | Unlimited size |
| C-E Glass; Miami, Florida                                    | SGCC-49  | Unlimited size |
| C-E Glass; Pennsauken, New Jersey                            | SGCC-53  | Unlimited size |
| C-E Glass; Tampa, Florida                                    | SGCC-47  | Unlimited size |
| Chromalloy Safetee Glass Div.; King of Prussia, Pennsylvania | SGCC-157 | Unlimited size |
| Fourco Glass Company; Clarksburg, West Virginia              | SGCC-213 | Unlimited size |
| Fourco Glass Company; Fort Smith, Arkansas                   | SGCC-34  | Unlimited size |
| Glass Guard Industries, Inc.; Webster, Massachusetts         | SGCC-105 | Unlimited size |
| Guardian Industries Corporation; Carleton, Michigan          | SGCC-131 | Unlimited size |
| Guardian Industries Corporation; Fort Lauderdale, Florida    | SGCC-40  | Unlimited size |
| Guardian Industries Corporation; Millbury, Ohio              | SGCC-130 | Unlimited size |
| Guardian Industries Corporation; Torrance, California        | SGCC-43  | Unlimited size |
| Hamilton of Indiana, Inc.; Vincennes, Indiana                | SGCC-57  | Unlimited size |
| N. V. Hardmaas; Holland                                      | SGCC-215 | Unlimited size |
| Libbey-Owens-Ford Company; Lathrop, California               | SGCC-85  | Unlimited size |
| Libbey-Owens-Ford Company; Rossford, Ohio                    | SGCC-19  | Unlimited size |
| Ohio Plate Glass Company; Lewisburg, Ohio                    | SGCC-186 | Unlimited size |
| PPG Industries, Inc.; Chicago, Illinois                      | SGCC-267 | Unlimited size |
| PPG Industries, Inc.; Crestline, Ohio                        | SGCC-102 | 26 3/4" by 72" |
| PPG Industries, Inc.; Ford City, Pennsylvania                | SGCC-70  | Unlimited size |
| PPG Industries, Inc.; Fresno, California                     | SGCC-73  | Unlimited size |
| PPG Industries, Inc.; Miami, Florida                         | SGCC-194 | Unlimited size |
| PPG Industries, Inc.; Mt. Vernon, Ohio                       | SGCC-71  | Unlimited size |
| PPG Industries, Inc.; Mt. Zion, Illinois                     | SGCC-72  | Unlimited size |
| Paulding Glass Products, Inc.; Paulding, Ohio                | SGCC-259 | Unlimited size |
| Seraphic (Aust.) Pty. Ltd.; South Australia                  | SGCC-234 | Unlimited size |
| Taylor Products, Inc.; Payne, Ohio                           | SGCC-189 | Unlimited size |
| T-O-W Industries, Inc.; Chicago, Illinois                    | SGCC-243 | Unlimited size |
| Tuf-flex Glass, Inc.; Elmhurst, Illinois                     | SGCC-229 | Unlimited size |
| Tyre Brothers Glass Company; Los Angeles, California         | SGCC-253 | Unlimited size |
| Viracon, Inc.; Owatonna, Minnesota                           | SGCC-228 | Unlimited size |
| Virginia Glass Products Corporation; Martinsville, Virginia  | SGCC-14  | Unlimited size |

### 3/8 inch tempered transparent glass

|  |          |                |
|--|----------|----------------|
| ASG Industries, Inc.; Greenland, Tennessee                   | SGCC-90  | Unlimited size |
| ASG Industries, Inc.; Kingsport, Tennessee                   | SGCC-30  | Unlimited size |
| Chromalloy-Safetee Glass Div.; King of Prussia, Pennsylvania | SGCC-181 | Unlimited size |
| Guardian Industries, Inc.; Carleton, Michigan                | SGCC-160 | Unlimited size |
| Guardian Industries, Inc.; Fort Lauderdale, Florida          | SGCC-41  | Unlimited size |
| Guardian Industries, Inc.; Torrance, California              | SGCC-97  | Unlimited size |
| Hamilton of Indiana, Inc.; Vincennes, Indiana                | SGCC-127 | Unlimited size |
| PPG Industries, Inc.; Chicago, Illinois                      | SGCC-272 | Unlimited size |
| PPG Industries, Inc.; Ford City, Pennsylvania                | SGCC-74  | Unlimited size |
| PPG Industries, Inc.; Miami, Florida                         | SGCC-196 | Unlimited size |
| Paulding Glass Products, Inc.; Paulding, Ohio                | SGCC-260 | Unlimited size |
| Tuf-flex Glass, Inc.; Elmhurst, Illinois                     | SGCC-258 | Unlimited size |
| Tyre Brothers Glass Company; Los Angeles, California         | SGCC-254 | Unlimited size |
| Virginia Glass Products Corporation; Martinsville, Virginia  | SGCC-93  | Unlimited size |

### 1/2 inch tempered transparent glass

|   |          |                |
|---|----------|----------------|
| ASG Industries, Inc.; Greenland, Tennessee                  | SGCC-91  | Unlimited size |
| Chromalloy Safetee Glass; King of Prussia, Pennsylvania     | SGCC-182 | Unlimited size |
| Guardian Industries Corporation; Carleton, Michigan         | SGCC-263 | Unlimited size |
| Guardian Industries Corporation; Torrance, California       | SGCC-98  | Unlimited size |
| Hamilton of Indiana, Inc.; Vincennes, Indiana               | SGCC-128 | Unlimited size |
| Libbey-Owens-Ford Company; Rossford, Ohio                   | SGCC-150 | Unlimited size |
| PPG Industries, Inc.; Chicago, Illinois                     | SGCC-273 | Unlimited size |
| PPG Industries, Inc.; Ford City, Pennsylvania               | SGCC-75  | Unlimited size |
| PPG Industries, Inc.; Miami, Florida                        | SGCC-200 | Unlimited size |
| Tuf-flex Glass, Inc.; Elmhurst, Illinois                    | SGCC-270 | Unlimited size |
| Tyre Brothers Glass Company; Los Angeles, California        | SGCC-255 | Unlimited size |
| Virginia Glass Products Corporation; Martinsville, Virginia | SGCC-94  | Unlimited size |

### 3/4 inch tempered transparent glass

|   |          |                |
|---|----------|----------------|
| ASG Industries, Inc.; Greenland, Tennessee                  | SGCC-143 | Unlimited size |
| Libbey-Owens-Ford Company; Rossford, Ohio                   | SGCC-151 | Unlimited size |
| PPG Industries, Inc.; Ford City, Pennsylvania               | SGCC-248 | Unlimited size |
| Virginia Glass Products Corporation; Martinsville, Virginia | SGCC-95  | Unlimited size |

## TEMPERED PATTERN GLASS

### 1/8 inch tempered pattern glass

|  |          |                |
|--|----------|----------------|
| ASG Industries, Inc.; Kingsport, Tennessee (Finetex)       | SGCC-141 | Unlimited size |
| Ohio Plate Glass Company; Lewisburg, Ohio (Ribbed)         | SGCC-203 | Unlimited size |
| Hamilton of Indiana, Inc.; Vincennes, Indiana (Pattern 62) | SGCC-247 | Unlimited size |

### 3/16 inch tempered pattern glass

|  |          |                |
|--|----------|----------------|
| ASG Industries, Inc.; Kingsport, Tennessee (Aquatex)   | SGCC-33  | Unlimited size |
| Ohio Plate Glass Company; Lewisburg, Ohio (Pattern 62) | SGCC-188 | Unlimited size |
| PPG Industries, Inc.; Crestline, Ohio (Roundel)        | SGCC-235 | 26 3/4" by 72" |

### 210 inch tempered pattern glass

|   |          |                |
|---|----------|----------------|
| ASG Industries, Inc.; Kingsport, Tennessee (Aquatex)    | SGCC-31  | Unlimited size |
| C-E Glass; Atlanta, Georgia (Spray Lite)                | SGCC-125 | Unlimited size |
| C-E Glass; Bensenville, Illinois (Spray Lite)           | SGCC-168 | 28" by 54"     |
| C-E Glass; Casselberry, Florida (Spray Lite)            | SGCC-244 | 28" by 54"     |
| C-E Glass; Cinnaminson, New Jersey (Spray Lite)         | SGCC-265 | 28" by 68"     |
| C-E Glass; Houston, Texas (Spray Lite)                  | SGCC-138 | Unlimited size |
| C-E Glass; Lancaster, Ohio (Spray Lite)                 | SGCC-144 | Unlimited size |
| C-E Glass; Long Beach, California (Spray Lite)          | SGCC-113 | Unlimited size |
| C-E Glass; Miami, Florida (Spray Lite)                  | SGCC-50  | Unlimited size |
| C-E Glass; Pennsauken, New Jersey (Spray Lite)          | SGCC-132 | 28" by 54"     |
| C-E Glass; Tampa, Florida (Spray Lite)                  | SGCC-201 | Unlimited size |
| Hamilton of Indiana, Inc.; Vincennes, Indiana (Aquatex) | SGCC-129 | Unlimited size |
| Minex-Poland; Poland (Pattern 100)                      | SGCC-140 | Unlimited size |
| Paulding Glass Products, Inc.; Paulding, Ohio (Aquatex) | SGCC-261 | Unlimited size |
| Taylor Products, Inc.; Payne, Ohio (Industrex)          | SGCC-191 | Unlimited size |



7/32 inch tempered pattern glass

Armour Laminated Glass Co.; Santa Fe Springs, California

(Aquatex)

SGCC-206

Unlimited size

ASG Industries, Inc.; Kingsport, Tennessee (Aquatex)

SGCC-25

Unlimited size

C-E Glass; Fullerton, California (P-516)

SGCC-236

Unlimited size

Guardian Industries Corporation; Fort Lauderdale, Florida

(Aquatex)

SGCC-42

Unlimited size

Guardian Industries Corporation; Torrance, California

(Aquatex)

SGCC-264

Unlimited size

Ohio Plate Glass Company; Lewisburg, Ohio

(Texture Linex)

SGCC-238

Unlimited size

PPG Industries, Inc.; Miami, Florida (Smooth Rough)

SGCC-219

Unlimited size

Tyre Brothers Glass Company; Los Angeles, California

(Smooth Rough)

SGCC-256

Unlimited size

Virginia Glass Products Corporation; Martinsville, Virginia

(Velvex)

SGCC-92

Unlimited size

## **LAMINATED TRANSPARENT GLASS**

0.145 inch laminated transparent glass

Globe-Amerada Glass Company; Elk Grove Village, Illinois

SGCC-87

34" by 40"

SS/SS laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio

SGCC-23

Unlimited size

SS/DS laminated transparent glass

Asahi Glass Company, Ltd.; Tokyo, Japan

SGCC-116

Unlimited size

Libbey-Owens-Ford Company; East Toledo, Ohio

SGCC-22

Unlimited size

Viracon, Inc.; Owatonna, Minnesota

SGCC-233

Unlimited size

7/32 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee

SGCC-27

Unlimited size

Chromalloy-Safetee Glass Div.; Philadelphia, Pennsylvania

SGCC-158

Unlimited size

Dearborn Glass Company; Bedford Park, Illinois

SGCC-147

Unlimited size

Globe-Amerada Glass Company; Elk Grove Village, Illinois

SGCC-45

Unlimited size

Laminated Glass Corporation; Detroit, Michigan

SGCC-88

Unlimited size

Safelite Industries; Denver, Colorado

SGCC-222

Unlimited size

1/4 inch laminated transparent glass

Armour Laminated Glass Co.; Santa Fe Springs, California

SGCC-207

Unlimited size

Asahi Glass Company, Ltd.; Tokyo, Japan

SGCC-115

Unlimited size

ASG Industries, Inc.; Kingsport, Tennessee

SGCC-26

Unlimited size

Libbey-Owens-Ford Company; East Toledo, Ohio

SGCC-82

Unlimited size

PPG Industries, Inc.; Creighton, Pennsylvania

SGCC-114

Unlimited size

Safelite Industries; Wichita, Kansas

SGCC-237

Unlimited size

Tudor Safety Glass Company Limited; England

SGCC-269

Unlimited size

Viracon, Inc.; Owatonna, Minnesota

SGCC-232

Unlimited size

1/2 inch laminated transparent glass

Armour Laminated Glass Co.; Santa Fe Springs, California

SGCC-208

Unlimited size

Libbey-Owens-Ford Company; East Toledo, Ohio

SGCC-126

Unlimited size

# TRANSPARENT WIRE GLASS

## 1/4 inch polished wire glass

|  |          |                |
|--|----------|----------------|
| Asahi Glass Company, Ltd.; Tokyo, Japan<br>(1/2 inch square mesh)            | SGCC-180 | Unlimited size |
| Asahi Glass Company, Ltd.; Tokyo, Japan<br>(3/4 inch diamond mesh)           | SGCC-117 | Unlimited size |
| ASG Industries, Inc.; Kingsport, Tennessee<br>(3/4 inch diamond mesh)        | SGCC-86  | Unlimited size |
| ASG Industries, Inc.; Kingsport, Tennessee<br>(pinstripe; 1/2 inch parallel) | SGCC-217 | Unlimited size |
| C-E Glass; Shawnee, Oklahoma<br>(1/2 inch square mesh)                       | SGCC-268 | Unlimited size |
| Central Glass Company, Ltd.; Japan<br>(3/4 inch diamond mesh)                | SGCC-161 | Unlimited size |
| Nippon Sheet Glass Company, Ltd.; Japan<br>(1/2 inch square mesh)            | SGCC-197 | Unlimited size |
| Nippon Sheet Glass Company, Ltd.; Japan<br>(3/4 inch diamond mesh)           | SGCC-199 | Unlimited size |

# PATTERN WIRE GLASS

## 7/32 inch pattern wire glass

|   |          |                |
|---|----------|----------------|
| ASG Industries, Inc.; Kingsport, Tennessee<br>(finetex, pinstripe; 1/2 inch parallel) | SGCC-103 | Unlimited size |
|---|----------|----------------|

# SAFETY PLASTIC SHEET

## 0.060 inch through 0.125 inch acrylic

|   |          |                |
|---|----------|----------------|
| K-S-H, Inc.; Crestwood, Missouri (extruded) | SGCC-174 | Unlimited size |
| K-S-H, Inc.; Tustin, California (extruded)  | SGCC-212 | Unlimited size |
| K-S-H, Inc.; Xenia, Ohio (extruded)         | SGCC-136 | Unlimited size |

## 0.080 inch and greater thicknesses acrylic

|  |          |                |
|--|----------|----------------|
| American Cyanamid Company; Sanford, Maine (cast)   | SGCC-183 | Unlimited size |
| Fehr Brothers, Inc.; Japan (extruded)              | SGCC-171 | Unlimited size |
| Robeco Products, Inc.; Taiwan (cast)               | SGCC-210 | Unlimited size |
| Rohm and Haas Company; Knoxville, Tennessee (cast) | SGCC-153 | Unlimited size |

## 0.080 inch through 0.187 inch acrylic

|  |          |                |
|--|----------|----------------|
| Rohm and Haas Company; Louisville, Kentucky (cast) | SGCC-154 | Unlimited size |
|--|----------|----------------|

## 0.080 inch through 0.125 inch acrylic

|   |          |                |
|---|----------|----------------|
| Flex-O-Glass, Inc.; Dixon, Illinois (extruded)                | SGCC-118 | Unlimited size |
| Plaskolite, Inc.; Columbus, Ohio (extruded)                   | SGCC-152 | Unlimited size |
| Rohm and Haas Company; Bristol, Pennsylvania (cast)           | SGCC-167 | Unlimited size |
| Sheffield Plastics, Inc.; Sheffield, Massachusetts (extruded) | SGCC-173 | Unlimited size |
| Southern Plastics Co.; Columbia, South Carolina (extruded)    | SGCC-162 | Unlimited size |

## 0.090 inch and greater thicknesses polycarbonate

|  |          |                |
|--|----------|----------------|
| Rowland Products, Inc.; Kensington, Connecticut (extruded) | SGCC-120 | Unlimited size |
|--|----------|----------------|

# SAFETY PLASTIC SHEET FOR INDOOR USE ONLY

COMPLIES ONLY WITH "BREAK SAFE CHARACTERISTICS" OF ANSI Z97.1-1972  
(MUST NOT BE MARKED WITH ANSI Z97.1-1972)

|  |          |                |
|--|----------|----------------|
| <u>0.080 inch through 3/16 inch plastic</u><br>Plaskolite, Inc.; Columbus, Ohio<br>(pattern; extruded; for <u>indoor use only</u> ) (L-100)                                | SGCC-202 | Unlimited size |
| <u>0.080 inch through 0.125 inch plastic</u><br>Plaskolite, Inc.; Columbus, Ohio<br>(smooth; extruded; for <u>indoor use only</u> )  | SGCC-170 | Unlimited size |
| <u>0.090 inch through 3/16 inch plastic</u><br>Intercosmic Plastics; Div. of ICP Industries; Miami, Florida<br>(pattern; extruded; for <u>indoor use only</u> ) (Seaflair) | SGCC-17  | Unlimited size |
| <u>0.090 inch plastic</u><br>Southern Plastics Company; Columbia, South Carolina<br>(pattern; extruded; for <u>indoor use only</u> ) (Cracked ice)                         | SGCC-18  | Unlimited size |
| <u>0.100 inch through 3/16 inch plastic</u><br>K-S-H, Inc.; Crestwood, Missouri<br>(pattern; extruded; for <u>indoor use only</u> ) (Glacial)                              | SGCC-99  | Unlimited size |
| K-S-H, Inc.; Tustin, California<br>(pattern; extruded; for <u>indoor use only</u> )<br>(Calypso and Glacial)   | SGCC-221 | Unlimited size |
| <u>0.100 inch through 0.130 inch plastic</u><br>K-S-H, Inc.; Fredericksburg, Virginia<br>(pattern; extruded; for <u>indoor use only</u> )<br>(Calypso and Roundel)         | SGCC-178 | Unlimited size |

## PLASTIC COATED GLASS

|  |          |            |
|--|----------|------------|
| <u>0.125 inch annealed glass; 0.016 inch patterned plastic coating</u><br>Visador Company; Jasper, Texas | SGCC-239 | 20" by 34" |
|--|----------|------------|

## ALTERNATE PATTERNS

The SGCC Certification Committee has considered and approved the following alternate patterns for certified patterned safety glazing.

### Tempered Pattern Glass

#### Certified Thickness and Patterns

#### Approved Alternate Patterns

1/8 Inch Tempered  
"Ribbed"

"Flax"; "Flexmish"; "Industrex"; "Lozenge";  
"Pattern 62"; "Roundel"; "Velvex"

3/16 Inch Tempered  
"Aquatex"

"Industrex"; "Muralex"; "Pattern 62"; "Velvex"

"Pattern 62"

"Aquatex"

"Roundel"

"Lozenge"

210 Tempered  
"Aquatex"

"Industrex"; "Muralex"; "Pattern 62"; "Velvex"

"Industrex"

"Aquatex"; "Muralex"; "Pattern 62"

7/32 Inch Tempered  
"Aquatex"

"Industrex"; "Muralex"; "Pattern 62"; "Velvex"

"Smooth Rough"

"Burlap"; "Factrolite"; "J-3"; "P-516"

"Textured Linex"

"Aquatex"; "Flemish"; "Flutex"; "Industrex";  
"Muralex"; "Pattern 62"; "Skytex"; "Velvex"

"Velvex"

"Aquatex"; "Industrex"; "Muralex"

### Pattern Plastics

0.100 Inch  
"Calypso"

"Glacial"; "Starlite"

0.130 Inch  
"Roundel"

"Glacial"; "Starlite"



## SGCC LABEL REQUIREMENTS

The SGCC certification label must be permanently marked on each piece of safety glazing material or else it is not certified by SGCC. The typical labels reproduced in this certified products directory are the same size that you will find them on each piece of safety glazing material.

The permanent label must contain ANSI Z97.1-1972 except for safety plastic sheet for indoor use only (which does not comply with the U.V. requirements of ANSI Z97.1-1972) in which case the label must include the wording "for indoor use only".

The permanent label must contain identification of the plant in which the product was made and the name or trade mark of the participant. (The SGCC number does this by reference to this certified products directory.)

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 participants' own manufacture, which has been certified by SGCC.

The permanent label must not be sold, transferred or otherwise disposed of in any manner other than being affixed to the participants 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 when certification was obtained.

The permanent label must have SGCC authorization and acceptance prior to use.

\* \* \* \* \*

### **ANSI Z97.1-1972 Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings**

The purpose of Z97.1-1972 is to prescribe the functional properties of safety glazing materials so that they can be used in any place in buildings for which they possess the requisite characteristics. Intended to serve as a convenient reference for building officials, this new and important document is designed to provide a basis for standards that may be incorporated in federal, state, and local regulations.

**ANSI Z97.1-1972  
may be  
obtained at \$3.50  
per copy from  
the American National  
Standards Institute**

**AMERICAN NATIONAL STANDARDS INSTITUTE  
1430 BROADWAY  
NEW YORK, NEW YORK 10018**



Enclosed is my payment of . . . . . Please send . . . . . ANSI Z97.1-1972.

Name \_\_\_\_\_

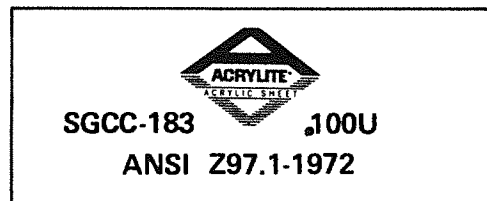
Organization \_\_\_\_\_ Title \_\_\_\_\_

Street \_\_\_\_\_

City \_\_\_\_\_ State \_\_\_\_\_ Zip \_\_\_\_\_

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

American Cyanamid Company  
P.O. Box 591  
Sanford, Maine 04073



Armour Laminated Glass Company, Inc.  
9401 Ann Street  
Santa Fe Springs, California 90670

TEMPERED SAFETY GLASS

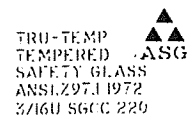
$\left[ \begin{smallmatrix} A \\ L \\ G \end{smallmatrix} \right]$  SGCC 204  
3/16 U

ANS Z 97.1-1972

Asahi Glass Company, Ltd.  
c/o Sentinel Enterprises, Inc.  
2138 Biscayne Boulevard  
Miami, Florida 33137



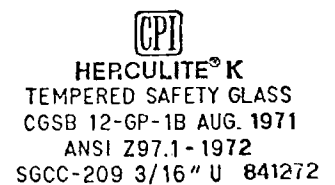
ASG Industries, Inc.  
P.O. Box 88  
Kingsport, Tennessee 37662



C-E Glass  
825 Hylton Road  
Pennsauken, New Jersey 08110



Canadian Pittsburgh Industries, Ltd.  
1299 20-St. E.  
Owen Sound, Ontario



Central Glass Company, Ltd.  
One World Trade Center; Suite 3947  
New York, New York 10048

TEMPERED SAFETY GLASS  
TEMPALEX  
  
CENTRAL  
ANSI Z97.1-1972 1/8-L  
SGCC-176

Chromalloy-Safetee Glass Division  
250 King Manor Drive  
King of Prussia, Pennsylvania 19406


TEMPERED  
3/4 U  
SAFETEE GLASS  
BY  
CHROMALLOY  
ANSI-Z97.1-1972  
SGCC 181

Dearborn Glass Company  
6600 South Harlem Street  
Bedford Park, Illinois 60501

LAMINATED  
SAFETY GLASS  
D.G.C.  
7/32U  
A.N.S.I. Z97.1-1972  
SGCC-147

Dura Vue Industries, Inc.  
1515 West 35th Street  
Chicago, Illinois 60609

Tentative label

DURA VUE   
TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1972  
SGCC-262 3/16"U

Feather-lite Manufacturing Company  
1210 E. Maple Road  
Troy, Michigan 48084

FEATHER-LITE  
SAFETY  
PANE  
TEMPERED SAFETY GLASS  
ANSI Z 97.1-1972  
SGCC-II 3/16U 032

Fehr Brothers, Inc.  
110 Wall Street  
New York, New York 10005

FAIRLINE  
.080" U ACRYLIC  
ANSI Z97.1-1972  
SGCC 171

July 1973; SGCC 27

Flex-O-Glass, Inc.  
1100 North Cicero Avenue  
Chicago, Illinois 60651

**FLEX-O-CRYLIC T.M.**  
SGCC-118  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1972 .080U  
FLEX-O-GLASS, INC.  
CHICAGO, ILLINOIS 60651

Fourco Glass Company  
P.O. Box 4147; Station B  
Fort Smith, Arkansas 72901

**FOURCO**  
*(ClearTemp)*  
SAFETY  
HEAT TEMPERED  
GLASS 3/16 U  
ANSI Z97.1-1972  
SGCC-36

Glass Guard Industries, Inc.  
Box 617 Cudworth Road  
Webster, Massachusetts 01570


SAFETY TEMPERED  
3/16U SGCC  
104  
  
ANSI Z97.1-1972  
GLASS GUARD  
WEBSTER, MASS.

S. A. Glaverbel  
c/o Veerman International Company  
41 East 42 Street  
New York, New York 10017

**Glaverbel**  
GR-tempered  $\frac{3}{16}$ "  
ANSI Z97.1-1972 188 U  
SGCC-16

Globe-Amerada Glass Company  
2001 Greenleaf Avenue  
Elk Grove Village, Illinois 60007

Laminated Safety Glass

SGCC-45  218-U  
ANS Z97.1-1972

Guardian Industries Corporation  
16400 Romine Road  
Carleton, Michigan 48117

  
**GUARDIAN**  
SAFEGLAZE  
TEMPERED SAFETY  
ANSI-Z 97.1-1972  
SGCC-160 3/8U

28 SGCC; July 1973

Hamilton of Indiana, Inc.  
2000 Chestnut Street  
Vincennes, Indiana 47591

**TEMPER-TUF**  
HAMILTON OF INDIANA  
ANSI Z97.1-1972 1/8U SGCC-54  
TEMPERED SAFETY GLASS

N. V. Hardmaas  
c/o Veerman International Company  
41 East 42 Street  
New York - New York 10017

Hardmaas  
TEMPERED SAFETY  
ANSI Z97.1-1972  
1/8 L SGCC 21A

Intercosmic Plastics  
Division of ICP Industries, Inc.  
7410 N. E. Third Court  
Miami, Florida 33138

ICP MIAMI FLORIDA  
POLYSTYRENE SAFETY GLAZING  
FOR INDOOR USE ONLY  
SGCC - 17 090U


K-S-H, Inc.  
10091 Manchester Road  
St. Louis, Missouri 63122

ANSI Z97.1-1972  
KSH, INC. ACRYLIC  
.060 U  
SGCC 13G

Laminated Glass Corporation  
355 West Lancaster Avenue  
Haverford, Pennsylvania 19041

Laminated Safety Glass  
SGCC-88  7/32-U  
ANS Z97.1-1972

Libbey-Owens-Ford Company  
811 Madison Avenue  
Toledo, Ohio 43624

 TUF-FLEX®  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1972 3/16"-U  
SGCC-20

July 1973; SGCC 29

Minex-Poland  
c/o M. L. Burke Company  
33204 Western Avenue  
Union City, California 94587

## TEMPERED SAFETY GLASS

MINEX  
ANSI Z97.1-1972  
SGCC-140 .210 U

Nippon Sheet Glass Company, Ltd.  
c/o Orient Glass Company  
615 South Flower Street  
Los Angeles, California 90017

WIRE GLASS  
ANSI Z97.1-1972  
SGCC-199 1/4-U  
NSG

Ohio Plate Glass Company  
Box 671  
Lewisburg, Ohio 45338

SAFETY  
TEMPERED  
3/16"-U SGCC  
105  
OHIO  
PLATE  
ANSI Z-97.1 1972

PPG Industries, Inc.  
1000 RIDC Plaza  
P. O. Box 2811  
Pittsburgh, Pennsylvania 15230

PPG HERCULITE K  
ANSI Z-97.1-1972 3/16"-U  
TEMPERED SAFETY GLASS  
SGCC-62 H372

Paulding Glass Products, Inc.  
West Caroline Street  
Paulding, Ohio 45879

Tentative label  
**Paulding**  
TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1972  
SGCC-260 3/8 "U

Plaskolite, Inc.  
1770 Joyce Avenue  
Columbus, Ohio 43219

plaskolite  
INTERIOR USE ONLY  
SGCC-602  
1570



Robeco Products, Inc.  
51 Madison Avenue  
New York, New York 10010

**ROBECO CAST ACRYLIC  
SAFETY GLAZING  
ANSI Z97.1 - 1972  
SGCC-210 .080U**

Rohm and Haas Company  
Independence Mall West  
Philadelphia, Pennsylvania 19105

Tentative Label

PLEXIGLAS R & H CO.  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1972 .080U  
SGCC-167

Rowland Products, Inc.  
Fairview Lane  
Kensington, Connecticut 06037

**ROWLEX®  
POLYCARBONATE SAFETY GLAZING  
ANS Z97.1-1972 SGCC-120  
090 U**

Safelite Industries  
P. O. Box 1879  
Wichita, Kansas 67201

SAFELITE  
SAFETY GLAZING  
ANSI Z97.1-1972  
SGCC-225

Saint Gobain  
c/o Euroglass Corporation  
551 Fifth Avenue  
New York, New York 10017

**SAINT-GOBAIN  
SGCC-81 3/16" U-  
D U R F L E X  
ANSI Z97.1-1972**

Scanglas A/S  
c/o Interglass Corporation  
240-28 Bayview Avenue  
Douglas Manor, New York 11363

**SCANGLAS  
3/16" U TEMPERED  
TRANSPARENT GLASS  
ANS Z 97.1-1972  
SGCC-123**

July 1973; SGCC 31

Seraphic (Aust.) Pty. Ltd.  
49 Cavendish Avenue; Devon Park  
Adelaide, South Australia 5008




Sheffield Plastics, Inc.  
Salisbury Road  
Sheffield, Massachusetts 02157

ACRY-PANE  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1972 .080U  
SGCC-173

Southern Plastics Company  
P. O. Box 39  
Columbia, South Carolina 29202

SOPLASCO  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1972  
SGCC-162 .080U

Taiwan Glass Corporation  
80 Weatherstone  
Lake Oswego, Oregon 97034



T G C    TEMPERLITE  
ANSI Z97.1-1972 3/16 U  
SGCC-177


Taylor Products, Inc.  
Laura Avenue  
Payne, Ohio 45880



ANSI Z97.1-1972  
SGCC-190 3/16-U

Tentative label

T  
E  
M  
P  
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INDUSTRIES  
ANSI Z97.1-1972  
SGCC-242 3/16" U

T-O-W Industries, Inc.  
6166 South Sayre Avenue  
Chicago, Illinois 60638

32 SGCC; July 1973

Tudor Safety Glass Company Limited  
Vinylex Works  
Queensborough, Kent; England

Tentative label

**VINYLEX**  
LAMINATED GLASS  
ANSI Z97.1 1972  
250 U

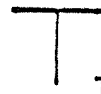
SGCC-269

Tuf-flex Glass, Inc.  
305 Busseron Street  
Vincennes, Indiana 47591

Tuf-flex Glass Inc.  
TEMPERED SAFETY GLASS  
1/4"-U ANSI Z97.1-1972  
SGCC-229

Tyre Brothers Glass Company  
3008 So. San Pedro Street  
Los Angeles, California 90051

Tentative label

 YRE  
EMP  
TEMPERED  
GLASS  
ANSI-Z97.1-1972

SGCC-252 189 U

Vidrierias De Llodio, S. A.  
c/o Seaply Glass Company  
271 North Avenue  
New Rochelle, New York 10802



7/32"U SGCC-37  
tempered glass  
ANSI Z97.1-1972

Viracon, Inc.  
800 Park Drive  
Owatonna, Minnesota 55060

**VIRAICON**  
TEMPERED GLASS  
ANSI Z97.1-1972  
SGCC-227 188-U

Virginia Glass Products Corporation  
P. O. Box 5431  
Martinsville, Virginia 24112



July 1973; SGCC 33

Visador Company  
940 Visador Road  
Jasper, Texas 75951

Safe-T-Coat  
ANSI Z 97.1 - 1972  
SGCC - 239 1/8-L  
VISADOR

Windor Industries, Inc.  
2615 Perth Street  
Dallas, Texas 75220

TEMPERED  
SAFETY GLASS  
iii  $\frac{3}{16}$  U  
ANSI Z97.1-1972  
SGCC 148

### SGCC BOARD OF DIRECTORS

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Thomas C. Carson, ASG Industries  
Robert W. McKinley, PPG Industries  
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Phil Dykstra, National Safety Council  
Dick Sanderson, Boca International  
Thomas R. Thiebaut, Bureau of Product Safety  
Herbert Wiltsee, Council of State Governments

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Delbert L. Christensen, Flex-O-Glass  
Thomas Coyne, Guardian Industries  
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Homer H. Goldsberry, Plaskolite  
Andy Grinter, Mobay Chemical  
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Richard T. McGuire, PPG Industries  
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Gary L. Tate, Hamilton of Indiana  
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H. Patrick Toner, American Cyanamid  
Jack A. Veerman, S.A. Glaverbel; H. V. Hardmaas  
Henry E. Walker, Fourco  
Herbert Wiltsee, Council of State Governments

### SGCC CERTIFICATION PROGRAM ADMINISTRATOR

Robert A. Nance, P.E., CSC

Felix A. Castillo, P.E., CSC

### LEGAL COUNSEL

Samuel Steen, Esq.

## PROCEDURAL GUIDE

### SAFETY GLAZING CERTIFICATION COUNCIL CERTIFICATION PROGRAM FOR SAFETY GLAZING MATERIALS USED IN BUILDINGS

#### FORWARD

Acceptance of a certified product containing safety glazing materials comes with the conviction that such certification assures a high level of safety and quality and that the integrity of the identifying mark or certification label is being reliably maintained by a competent certifying agency.

The provisions of American National Standard Z97.1, provide a sound technical basis for the required high level of safety. With the addition of independent administration plus periodic routine sampling and product evaluation, a program of product certification is developed in accordance with the accepted American National Standards as contained in American National Standard Z34.1. The Certification Program described here is predicated upon the concept of independent and impartial administration of the certification procedures which are incorporated in the SGCC license agreement.

To insure administration of the Certification Program in a uniform and equitable manner, this Procedural Guide has been prepared for the information and guidance of the participants.

It should be noted that the *SGCC License Agreement* is the governing document for operation of the Certification Program. This Procedural Guide, which *is not* an extension of that document, serves merely to describe the administrative procedure and routine operation of the Certification Program.

#### GENERAL INFORMATION

##### *The Certification Concept*

The SGCC Certification Program is based on the conviction that no standard of safety or quality is good without the *continuous adherence of the participants* to that standard.

To buyers, specifiers, code officials and users, the SGCC certification label offers the manufacturer's *assurance* that his safety glazing material has been *produced in conformance* to American National Standard Z97.1, covering safety glazing materials used in buildings.

Many state laws, municipal ordinances and building codes require that all glazing installed in certain pre-defined *hazardous* locations comply with the ANSI standard. This standard, promulgated by the American National Standards Institute, *requires* certification in accordance with ANSI Z34.1, prior to labeling safety glazing materials as conforming to ANSI Z97.1.

### *Who Can Participate?*

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 this certification program. SGCC supervises the certification program under which the Administrator periodically checks and reports compliance of the manufacturers of products having the SGCC certification label with the requirements of ANSI Z97.1.

### *Administration*

Certification Services Corporation (CSC), is the independent *Administrator* of the Certification Program. CSC maintains the SGCC Office Of Certification and handles the routine day to day business. All transactions are done in the name of SGCC.

### *How Can You Become a Participant?*

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 sends to SGCC one copy of a valid test report from an official SGCC-recognized prototype testing laboratory indicating full and complete compliance with the Specifications, namely ANSI Z97.1. (This is the "initial" or "prototype" testing and the sample is furnished by the manufacturer directly to any one of the SGCC-recognized independent commercial prototype testing laboratories, which the manufacturer selects).
- c) The manufacturer sends to SGCC, the six-month certification fee *for each item which is to be certified*.
- d) The manufacturer sends to SGCC a *black on white* copy of his proposed permanent label.

After receipt of *all* of the above four items, SGCC sends to the participant a Notice of Product Certification which includes a SGCC Certification Number. This number *must* be incorporated into the permanent label to be affixed on each piece of certified safety glazing material. The certified item will then be listed in the next published Certified Products Directory.

### HOW THE CERTIFICATION PROGRAM WORKS

The *American National Standards Institute* sets safety standards and safety glazing materials *must meet or exceed* applicable ANSI standards before they can be certified by SGCC. Specifications for safety glazing materials used in buildings are developed and reviewed at least every five years by ANSI.



*SGCC-Recognized Independent Prototype Testing Laboratories* conduct all tests. All laboratories, whose test reports are utilized by this Certification Program shall be approved by the SGCC Certification Committee. Initial or prototype tests are performed at the testing laboratory selected by the participant. Routine evaluation samples are tested by the testing laboratory selected by the Administrator.

#### *Administrator Authorizes Certification*

As sole judge of compliance with applicable standards, the Administrator authorizes a product which has been approved to be listed in the Certified Products Directory.

*Participants Label Safety Glazing Material* within the limits of the product size tested. If 34" by 76" is the initial or prototype test size, then certification is extended to all sizes and the label contains a letter U, designating such unlimited size. The letter L, contained within the label, denotes that certification is limited to the width and length of the initial or prototype test size.

#### *Products Listed in Certified Products Directory*

Approved products are listed in the Certified Products Directory, which is published at least every six months. It 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 participants name, plant location, product description and a copy of the actual label that is *permanently* marked upon each piece of certified safety glazing material.

The *Administrator Samples Certified Safety Glazing Material* from the participants' inventory once every six months.

*An Approved Testing Laboratory Determines Compliance* of these samples with the Specifications. Tests are made either at the place of manufacture or at the laboratory selected by the Administrator from the approved list. Results of each test are mailed promptly to the participant and to the Administrator.

#### COMPLIANCE SAFEGUARDS

##### *How is Compliance Assured?*

Any certified product found in the course of routine sampling and evaluation not to be in compliance with the Specifications, is subject to having certification removed. The participant is given a 30-day grace period in which to demonstrate to the satisfaction of the Administrator that his product is in compliance. If he does not, certification is *automatically terminated* 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 the complaint in writing along with an appropriate 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 \$150 per man day *plus* the reasonable costs of travel and 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 complaintants' surety deposit, *unless* the investigation proves non-compliance, *in which case all costs will be borne by the participant found to be in non-compliance.*

#### *Withdrawal of Certified Product*

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

#### COSTS

##### *What Does The Program Cost?*

The participant pays all projected fees to SGCC on a six-month basis, in advance. A participant is invoiced for each item that is certified and listed separately in the Certified Products Directory. The invoice will include the fees for future routine evaluation testing.

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

##### Program Costs:

\$400 per six months for the first product at a plant.

\$100 per six months for each additional product at the same plant.

##### Distribution of Fees:

\$12.50 per six months from each product to SGCC for administrative expenses.

\$387.50 per six months from the first product at each plant to CSC.

\$87.50 per six months from each additional product at the same plant to CSC.

#### 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 participant.

*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 becomes effective on the date of its execution; has an initial duration of six months (adjustable to a January 1 to

July 1 and a July 1 to January 1 basis), and is automatically renewed for successive, additional periods of six months, unless either party gives notice at least sixty days prior to the date of expiration that cancellation is requested or unless revoked by SGCC for causes set forth in the document.

#### *Administration Service Agreement*

This agreement, entered into by SGCC and Certification Services Corporation, governs the relationship between SGCC and CSC, 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
- c) reviews all test reports in order to determine compliance of the certified product with the Specifications
- d) inspects and approves all in-plant and Test Laboratory test facilities for use in this Certification Program (Test Laboratories are "recognized" or approved by the SGCC Certification Committee)
- e) publishes and mails the SGCC Certified Products Directory on or about each January 1 and July 1
- f) handles all routine clerical duties of SGCC with respect to certification matters
- g) acts as SGCC treasurer, invoicing participants, maintaining a bank account and dispersing funds (quarterly fiscal reports are made to the SGCC Certification Committee)
- h) furnishes all testing except for 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.

#### *Procedural Guide*

This guide outlines program procedures in accordance with the provisions of the License Agreement and the Administration Service Agreement, for the guidance of those concerned with the procedural details of the Certification Program's operation. It covers the steps to be taken in any given procedural situation in the interest of equitable and uniform treatment of participants and the preservation of the integrity of the Certification Program.

#### *Certified Products Directory*

This directory is the one document and publication that is normally in

the public's eye and contains a listing of the certified safety glazing materials of each participant.

#### *Certification Label*

This Certification Mark is permanently affixed to each piece of certified safety glazing material by the participant. It contains a code that refers to the listing in the Certified Products Directory. The listing then provides a complete product description including the company 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 the industry, building officials and the public. It also bears legal corporate responsibility.

The *SGCC Certification Committee* has the responsibility for the general procedure and policy pertaining to operation of the Certification Program. As a part thereof, it:

- a) establishes certification "guidelines"
- b) determines the applicability of the Specifications in a specific situation where a question is raised by a participant or the Administrator
- c) approves Test Laboratories
- d) determines which of the 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*

*SGCC Board of Directors*  
Mr. Norman C. Nitschke, Chairman  
Glasstech, Inc.  
801 Front Street  
Toledo, Ohio 43605  
Phone: 419-693-0696

*SGCC*  
Mrs. Shirley Stafford, Asst. Secy.  
1640 West 32 Place  
Hialeah, Florida 33012  
Phone: 305-822-1141

*SGCC Certification Committee*  
Mr. Donald J. Vild, Chairman  
Libbey-Owens-Ford Company  
1701 East Broadway  
Toledo, Ohio 43605  
Phone: 419-242-5782

*SGCC*  
Mr. Robert A. Nance, P. E.  
Administrator of Certification  
1640 West 32 Place  
Hialeah, Florida 33012  
Phone: 305-822-1141

## 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 for certification.
- G.2 Tests for initial compliance of safety glazing with ANSI Z97.1 will be accepted from British Standards Institution, Electrical Testing Laboratories, Inc., Institut National DuVerre, Miami Testing Laboratory, Inc., Patzig Testing Laboratories Co., Inc., Twinning Laboratories of Southern California, Inc., or other testing laboratory subsequently approved by the SGCC Certification Committee.
- G.3 Paragraph (1) Section 4.1.3 of ANSI Z97.1-1972 is intended to apply to laminated, wired and coated glasses 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 Sealed insulating glass can not be certified per se, but each layer can be a certified item.
- G.5 The SGCC item number when used as part of an authorized permanent label designates the name of the licensee (participant) and also the location of the manufacturing plant since the Certified Products Directory which lists the item number and pertinent data is published twice a year.
- G.6 All test specimens, except for prototype samples, must be marked with an SGCC authorized permanent label prior to testing in order to be considered a valid sample.
- G.7 Initial certification of all items shall be temporary and is limited to three months, pending authorization by SGCC of the actual permanent label. Certification shall be removed from items for which SGCC does not receive a black on white copy of the permanent label within three months.
- G.8 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 by Table 1, ANSI Z97.1-1972 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 on the participant's premises or requests participant's samples when none are available at the time of sampling:

G.10 (continued)

- a) The participants 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 routine evaluation samples fail to comply with the Specifications:
- a) Written notice is sent to the participant by the Administrator that within 30 days participant must submit samples to the Administrator. Written notice of removal of certification is issued to the participant by the Administrator if the samples are not received within the allotted 30 days or if the samples submitted fail 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 at least twice a year). The costs involved shall be paid by the participant.
  - c) The Administrator shall be certain that the sample obtained in b) above is of recent production.
  - d) Certification shall be removed if the additional random sample obtained in b) above fails to comply with the Specifications.
  - e) See also Guideline G.14.
- G.12 If a participant 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 b) of SGCC Guideline G.12, 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 participant 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 participants 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 participant desires to recertify a product, that previously had certification removed because of failure to comply with the Specifications, the product shall be routinely sampled four times during the first year. The costs involved shall be paid by the participant.
- G.16 The SGCC Certified Products Directory shall be reissued and distributed every six months (about January 1 and July 1 or more often) 1) at the request of the majority of the Certification Committee, 2) at the request of an individual participant, or 3) at the direction of the Board of Directors. When an individual participant requests the additional mailing, he will be charged the entire cost. Distribution at present is to all FHA field offices and all AAMA member companies. Each participant is requested to submit additional names for mailing.

- G.17 Impact test all asymmetrical samples two specimens on one side and two specimens on the other side.
- G.18 Any type of safety glazing material that is laminated, including those with a sprayed on coating and those with an applied sheet material, must comply with the requirements of paragraph 4.2 of the ANSI Z97.1-1972 (boil test).
- G.19 Certified and permanently labeled safety glazing materials such as laminated glass, wire glass or rigid plastic 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 manufacturers' 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.

#### 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.)
- T.2 Polished plate glass and the rough plate 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.
- T.4 In cases where certified tempered glass is nominally not available for sampling the participant 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 participant 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 does 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.

Since the minimum allowable thickness in Federal Specification DD-G-451c is different for plate/float and sheet glass of equal nominal thickness, SGCC may not in all cases be able to certify the glass tested meets this specification. When this situation arises, the participant upon the request of SGCC must furnish a statement indicating all plate/float and sheet of his manufacture meet the thickness requirements of Federal Specification DD-G-451c.



## TEMPERED PATTERN GLASS

- TP.1 For certification purposes the nominal thickness of 210 tempered pattern glass shall be 0.210 inches and thickness tolerances shall be plus 0.031 inches and minus 0.016 inches.
- TP.2 Certification of one patterned glass will also cover similar patterns of the same nominal thickness. The participant shall furnish to the SGCC Certification Committee 6" by 6" samples of each type of patterned glass he wished included in each group. These will be reviewed by the Certification Committee to evaluate their similarity to the pattern tested.
- TP.3 The maximum thickness shall be recorded when measuring the thickness of pattern wire.
- TP.4 For tempered pattern 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 ANSI Z97.1-1972 test purposes.

## LAMINATED GLASS

- L.1 Certification of regular laminated glass will also cover tinted, heat absorbing and coated glasses of the same nominal thickness.
- L.2 In cases where certified laminated glass is normally not available for sampling the participant 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 participant 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 vise 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 to be included in the certification.
- L.5 Laminated safety glass need not be identified by type of base glass.

## WIRE GLASS

- W.1 Certification of one polished wired glass may be applied to other polished wire glasses, provided:
- The glass thickness of the candidate glass is nominally equal to the thickness of the glass that is certified.
  - The wire diameter in the candidate glass is at least as great as the wire diameter in the glass that is certified.
  - The spacing of the wires in the candidate glass is no greater than the spacing of the wires in the glass that is certified.
  - The Certification Committee has been presented with a copy of the results of a test indicating that compliance of the candidate glass with the requirements of Z97.1-1972 impact testing has been made.

After admission under the blanket certification covering wired glasses, all wire 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 or colors of the same nominal thickness.
- 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 re-evaluation samples are to be selected by the Administrator from any of the certified thicknesses.
- P.3 Certification of one patterned rigid plastic will also cover similar patterns of the same nominal thickness. The participant shall furnish to SGCC Certification Committee 6" by 6" samples of each type of patterned plastic he wished included in each group. These will be reviewed by the Certification Committee to evaluate their similarity to the pattern tested.
- 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

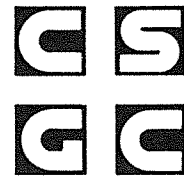
- PE.1 Sheet plastics for exterior use must comply with paragraph 4.3 of the ANSI Z97.1-1972 (UV Weathering).
- PE.2 Certification of plastics for exterior use shall be permitted prior to completion of ANSI Z97.1-1972 Weathering Tests (paragraph 4.3) provided that a considered expert opinion states that the infrared spectrogram indicates that the plastic is an acrylic or U.V. 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 re-evaluation samples and shall be compared with that of the prototype in lieu of conducting weathering tests.
- 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 specimen shall be notched prior to U.V. exposure and the notched surface shall be exposed to the U.V.

### PLASTICS - INDOOR USE ONLY

- PI.1 Sheet plastic for indoor use only do not have to comply with paragraph 4.3 of the ANSI Z97.1-1972 UV Weathering).
- PI.2 The permanent label authorized by SGCC must include "for indoor use only".

**CONSUMER  
SAFETY  
GLAZING  
COMMITTEE**

One Gateway Center ■ Pittsburgh, Pa. 15222 ■ Area Code 412/434-2301



June 14, 1973

CONSUMER SAFETY GLAZING COMMITTEE  
STATUS REPORT

By James S. Meckel, Chairman

SPONSORING ORGANIZATIONS: A. MODEL BUILDING CODES

International Brotherhood of  
Painters and Allied Trades, AFL-CIO

Flat Glass Marketing Association

National Glass Dealers Association

PPG Industries, Inc.

Architectural Aluminum  
Manufacturers Association

Glass Tempering Association

Home Conference-  
National Safety Council

National Woodwork Manufacturers  
Association, Inc.

ASG Industries, Inc.

Libbey-Owens-Ford Company

Rohm and Haas Company

C-E Glass Company

Globe-Amerada Glass Company

Bureau of Community  
Environmental Management (Injury  
Control), U.S. Public Health Service

Mobay Chemical Company

National Sash and  
Door Jobbers Association

Fourco Glass Company

Sealed Insulating Glass  
Manufacturers Association

General Electric Company  
Plastics Department

U.S. Plywood—Champion Papers

Solar Control Products Corporation

J. W. Carroll and Sons

The Southern Standard Building Code, the Basic Building Code, and the Uniform Building Code have adopted upgraded glass safety requirements; and these appear in the 1969 or 1970 editions of the respective codes.

B. ONE AND TWO FAMILY DWELLING CODE

This is a model building code, specifically for one and two family dwellings, developed by a joint effort of all three of the model building codes and the American Insurance Association.

A section on glass, including a section on safety glazing in areas subject to accidental human impact is included.

C. STATE BUILDING CODES

1. Mandatory State Codes\*

Seven states have mandatory state codes: Indiana, North Carolina, Ohio, Minnesota, Wisconsin, California and Connecticut. All except Wisconsin include upgraded safety glazing requirements in their codes.

Wisconsin is in the process of upgrading its codes.

2. Special State Regulations

New York has adopted Rule No. 47 relating to "Transparent Glass Doors in Mercantile Establishments and in Public and Commercial Buildings and Structures".

Maryland has adopted Regulations 43HO4 relating to "Transparent Glass Doors in Mercantile Establishments and in Public and Commercial Buildings and Structures".

\*Building Codes: Report of Advisory Commission on Inter-governmental Relations - January 1966.

## D. SAFETY GLAZING LEGISLATION

- California - Assembly Bill No. 399 became law. Effective date Nov. 1970. This was amended by Senate Bill No. 601 which became effective Nov. 1971.
- Colorado - House Bill 1110 became law. Effective date July 1, 1971.
- Delaware - Senate Bill No. 23 became law. Effective date Jan. 1, 1972.
- Florida - House Bill No. 214 became law. Effective July 1, 1969. An amended version, Senate Bill No. 417, was passed by the legislature and became effective July 1, 1970.
- Georgia - House Bill 412 became law. Effective date, July 1, 1970.
- Hawaii - House Bill No. 379 became law. Effective date May 28, 1971.
- Illinois - Senate Bill No. 101 became law. Effective date Jan. 1, 1972. House Bill No. 4104 became law in June 1972. Changes effective date of SB. 101 to Jan. 1, 1973.
- Kentucky - House Bill 353 became law. Effective date Jan. 1, 1971.
- Louisiana - Senate Bill No. 460 became law. Effective date Jan. 1, 1973.
- Maryland - Senate Bill No. 317 became effective July 1, 1969. House Bill No. 797 providing upgrading amendments to SB317 was passed and signed by the Governor. Effective date, July 1, 1971. House Bill No. 7 (1973 Model Bill) passed by House in 1973 Legislature. Now in Senate.
- Massachusetts - Senate Bill No. 1401 became law. Effective date April 1, 1972. House Bill 5324 became law, changing effective date of SB. 1401 to January 1, 1973.
- Michigan - House Bill No. 5740 became law. Effective date July 1, 1973.
- New Jersey - Assembly Bill No. 496 became law. Effective date March 28, 1972.
- New York - Assembly Bill 11456 - Senate Bill 9580 - became law. Effective date July 1, 1973.
- Ohio - House Bill No. 9 became law. Effective date July 1, 1972. House Bill No. 1172 became law, changing effective date of HB.9 to Jan. 1, 1973.
- Oklahoma - House Bill No. 1350 became law. Effective date Jan. 1, 1972.
- Oregon - House Bill 1771, and the regulations developed by the Public Health Department, became law effective July 1, 1970.
- Pennsylvania - Senate Bill No. 29 became law. Effective date Jan. 1, 1972.
- Tennessee - Senate Bill No. 178 became law. Effective date Jan. 1, 1972.
- West Virginia - House Bill No. 504 became law. Effective date July 1, 1971.

## 1972 LEGISLATIVE SESSION

- Alabama - Bill drafted.
- Arizona - House Bill No. 2161 became law. Effective date July 1, 1974.
- Arkansas - Senate Bill No. 34 became law. Effective date Jan. 1, 1974.
- Connecticut - Bill No. 8501 became law.
- Iowa - Bill drafted.
- Kansas - Senate Bill No. 332 passed by Senate. In House Committee.
- Maryland - House Bill No. 7 became law. Effective date July 1, 1973.
- Minnesota - House Bill No. 874 passed and Senate Bill No. 1051 in Committee.
- New Hampshire - Bill in Senate Committee.
- Rhode Island - House Bill 5030 became law. Effective date July 8, 1973.
- South Carolina - House Bill 1433 became law. Effective date Jan. 1, 1974.
- South Dakota - Senate Bill No. 53 became law. Effective date July 1, 1974.
- Texas - Senate Bill No. 688 and House Bill No. 674 in Committee.
- Virginia - Senate Bill No. 656 became law. Effective date Jan. 1, 1974.
- Washington - House Bill No. 137 became law. Effective date Jan. 1, 1974.
- Wisconsin - Senate Bill No. 344 in Senate Committee.

E. FHA MINIMUM PROPERTY STANDARDS

In July 1969, FHA issued Interim Revision No. 45 revising those sections of the Minimum Property Standards for 1 and 2 Family Dwellings dealing with the glazing requirements for sliding glass doors, storm doors, tub enclosures and shower doors and fixed-glazed panels adjacent to entrance or exist doors.

Also issued was Revision No. M-13. This revision imposed in Multi-family Housing the same requirements that Revision No. 45 requires for 1 and 2 Family Dwellings.

The two revisions require use of only safety glazing material in all sliding glass doors, tub enclosures, and shower doors. Safety glazing materials must also be used in storm doors and those fixed panels adjacent to entrance doors unless the glazing is protected by substantial grilles on both sides up to a height of 42 inches from the floor level.

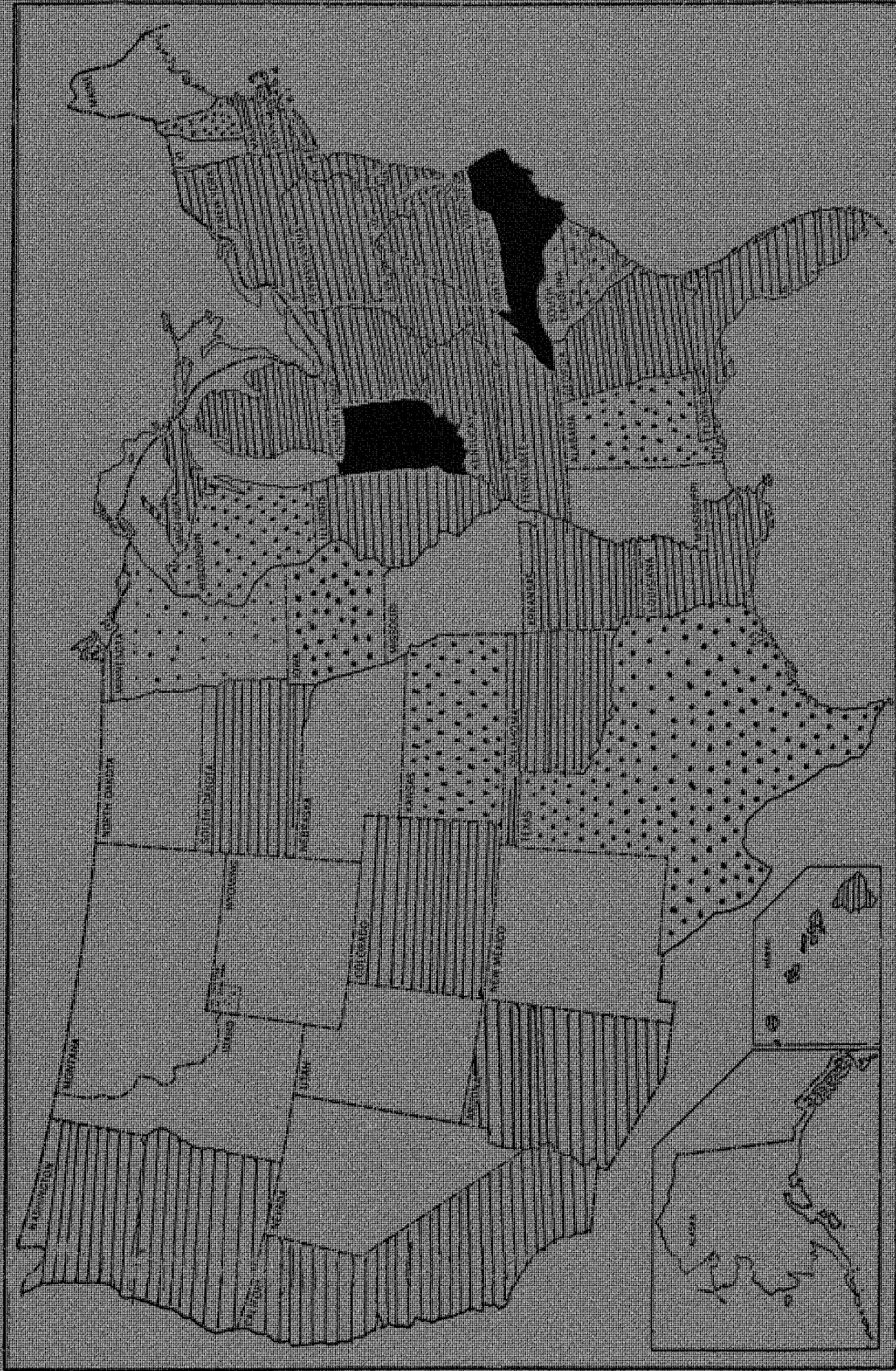
These FHA requirements also apply to a new public housing and housing built with VA and Farmers Home Administration Financing.

F. MOBILE HOME STANDARDS

The American National Standard ANSI-A119.1, sponsored by the Mobile Home Manufacturers Association, has been adopted by 35 states through legislative enactment. Thus, these states have adopted this ANSI Standard as the code for mobile homes.

The current edition, ANSI A119.1-1971, of this Standard, incorporates safety glazing requirements for glazing in "hazardous locations".

\* \* \* \*



SAFETY GLAZING LAWS PASSED

SAFETY GLAZING LAWS PENDING

SAFETY GLAZING IN MANDATORY STATE BUILDING CODES



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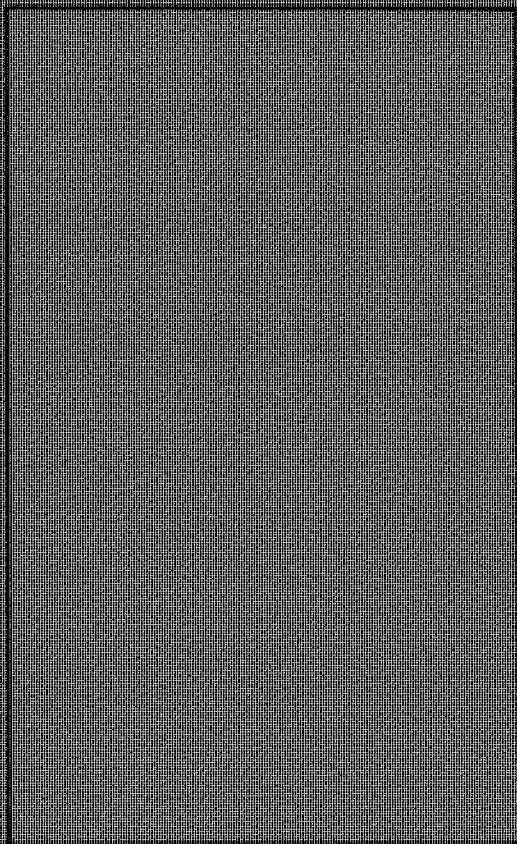
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