

JANUARY 1, 1977



safety glazing certification council

certified products directory  
safety glazing material used in buildings

## TABLE OF CONTENTS

Program Concept .....	page 4
Meetings this year .....	page 5
Membership Roster .....	page 6
Board of Directors .....	page 7
Certified Products (Numerically) .....	page 8
Certified Products (By Plant) .....	page 10
Pattern Glass Classification .....	page 20
Certified Products (By Product) .....	page 21
SGCC Label Requirements .....	page 30
Participants and their Typical Labels .....	page 31
Procedural Guide .....	page 39
Communications .....	page 44
SGCC Approved Laboratories .....	page 45
Guidelines for Certification .....	page 46
ANSI Z97.1-1975 .....	page 50

# PROGRAM CONCEPT

The safety of the public is paramount. Manufacturers of safety glazing products, building code administrators and others responsible for the safety of the public, recognizing the need for a common standard for safety glazing materials, jointly established the Safety Glazing Certification Council (SGCC).

The Safety Glazing Certification Council is a non-profit organization which has established and maintains a program to administer periodic testing as outlined in American National Standard Z97.1-1975, an internationally recognized standard for safety glazing in buildings. This standard subjects glazing materials to a practical test to determine that if they are broken by human contact, they break in a manner that would minimize the likelihood of cutting or piercing injury. SGCC's responsibilities are threefold: to assure a periodic testing program is maintained; to approve and register the form of the manufacturer's label; and to withdraw the manufacturer's authority to use that label if its products do not meet ANSI Z97.1-1975 standards.

Management and control of the program is vested in a board of directors, half representing industry and half representing public interest. The public interest representatives are empowered to veto any action regardless of the number present at a meeting. This insures against industry dominance of SGCC actions. The organization is operated in compliance with the American National Standard Practice for Certification Procedures Z34.1-1947 (R1959).

The program uses independent testing laboratories under the supervision of a qualified administrator, who is a professional engineer. He is unaffiliated with any manufacturer of safety glazing materials, and is hired by and responsible to the Safety Glazing Certification Council. The manufacturer of the products listed herein has certified that the labeled materials comply with the safety characteristics established by ANSI Z97.1-1975. The compliance of the manufacturer with the requirements of that standard is being checked periodically by an independent testing laboratory under the supervision of SGCC.

Every manufacturer of safety glazing material is eligible and encouraged to apply for certification. However, his products are not accepted and certified until an independent laboratory test indicates compliance with the standard. Once certified, each product is assigned an SGCC certification number to identify it and the factory at which it is made. Then, at least twice a year SGCC independently selects samples during unannounced visits to the manufacturing plant or randomly from the market place to ensure continued adherence to the standard. Based on these re-evaluation reports SGCC authorizes continued use of the certification label and the product listing published in this directory.

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

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

## *MEETINGS OF THE CERTIFICATION COMMITTEE*

The Certification Committee of the Safety Glazing Certification Council met on January 26 and 27, May 5 and 6, and November 4 and 5 during 1976. Interested persons may obtain minutes of these meetings by writing to the Safety Glazing Certification Council.

\* \* \* \*

Certification in this directory is up-to-date as of January 1, 1977; however, products may be certified or certification removed from time to time. Please contact the SGCC office for the latest up-to-date information.

Requests for future copies of this directory, or any question or comments should be directed to:

Ms. Shirley Stafford  
Assistant Secretary  
Safety Glazing Certification Council  
1640 West 32 Place  
Hialeah, Florida 33012

Telephone (305) 558-1352

# ROSTER

November, 1976

## Board of Directors

Mrs. Jean Cornwell, Consumer  
Phil Dykstra, National Safety Council  
Richard C. Elstner, Wiss, Janney and Elstner  
Mrs. Sylvia Lav, Consumer  
Joseph E. Minor, Texas Tech University  
Orville L. Pierson, Consumer  
Lynford K. Snell, Federal Housing Administration

## Representing Industry

Thomas C. Carson, ASG Industries  
Homer H. Goldsberry, Plaskolite  
George L. Graf, Jr., du Pont  
Richard L. Morrison, Ford Motor  
Norman Nitschke, Glasstech  
Caryl E. Twitchell, Three M  
Donald J. Vild, L-O-F Co., LOF Glass

## SGCC Officers

Richard L. Morrison, President, Chairman  
Orville L. Pierson, Vice President  
Richard C. Elstner, Secretary  
Shirley Stafford, Assistant Secretary  
Thomas C. Carson, Interim Treasurer

## SGCC CERTIFICATION COMMITTEE

W. Gene Gilbert, Chairman

## Participants with certified items:

### Participant

ASG Industries  
American Cyanamid  
Armour Laminated  
Asahi  
Buchmin Industries  
M. L. Burke  
C. E. Glass  
Canadian Pittsburgh  
Central Glass  
Chromalloy-Safetee  
Dearborn Glass  
Downey Glass  
Falconer Plate Glass  
Feather-lite  
Flex-O-Glass  
Ford Motor Company  
Fourco Glass Company  
General Electric  
Gladwin Industries  
Globe-Amerada  
Guardian  
Hamilton of Indiana  
K-S-H  
LOF Glass  
Laminated Glass  
Libbey-Owens-Ford  
Minex-Poland  
Northwestern Industries  
Ohio Plate Glass  
PPG Industries  
Plaskolite  
Rohm and Haas  
Rotuba Extruders  
Safelite  
Sheffield Plastics  
Southern Plastics  
Swedcast  
Tempered Glass  
Tempglass  
Temp-Safe  
Texas Tempered Glass  
Tudor Safety Glass  
Tuf-flex Glass  
Vidrios Securit  
Viracon  
Virginia Glass  
Visador

### Primary Member

Thomas C. Carson  
H. Patrick Toner  
M. H. Russell  
Paul F. Burnham, Jr.  
Roy Buchmin  
Maurice L. Burke  
James M. Staples  
J. M. Peeters  
Hajime Hattori  
Earle D. Moiles  
Joseph W. Falls  
Jim Pinsky  
Richard E. Turner  
Avery C. Fried  
Harold G. Warp  
Richard L. Morrison  
John Linder  
Paul J. Ferrigan  
George C. Triplett  
Richard R. Miller  
Pieter Knorr  
Gary L. Tate  
Larry W. Cornell  
Donald J. Vild  
Martin W. Lerner  
Donald J. Vild  
Maurice L. Burke  
Norman G. Heutmaker  
W. Gene Gilbert  
Richard T. McGuire  
Homer H. Goldsberry  
A. J. Bartosic  
Eugene E. Droad  
David R. Jones  
Thomas Kradel  
D. W. Weber  
Ron E. Mildon  
Paul F. Tumey  
Irvin D. Fintel  
Lewis E. Hunt, Jr.  
Hugh France  
Peter Fineman  
Bernard Wathan  
Jaime Urrutia  
Harold Landsman  
Robert L. Brown  
James Seale

### First Alternate

David K. Shaddock  
C. S. Hermann  
Norman Cohen  
Francis Liedel  
F. T. Barker  
Takayoshi Sakaida  
Steve Zabetakis  
Herman R. Paulick  
Leight T. Yates  
Delbert Christensen  
E. L. Henrickson  
Edward Rearick  
C. T. Richardson  
Donald J. Segin  
Robert Hayes  
Ronald Purdue  
William W. Korn  
Leroy E. Drake, Jr.  
W. F. Roe  
Leroy E. Drake, Jr.  
James C. Clark  
Frederick S. Deans  
Robert Yeoman  
T. C. Tjader  
Albert Bell  
Homer C. Lewis  
Bernard W. Brooks  
L. Drozeski, Jr.  
R. G. Brown  
David P. Moorhead  
J. L. Boicey  
Geoffrey Barrett  
Joseph O. Kramer  
James Full  
Brooks R. Leavitt  
Roger Hall

### Second Alternate

W. H. Beazell  
John Lindsay  
Ray Burns  
Richard T. McGuire  
Richard H. Turner  
Bradford L. Nicholson  
Floyd Austin  
L. James Horvath  
John C. Morgan  
John C. Morgan  
Robert W. McKinley  
Harley Thomas  
Richard J. Regan, Jr.  
William H. Schneider  
W. S. Yamaguchi  
Jerry Bienenfeld  
Donald J. Vild  
A. P. Stillman  
Gerald L. Reynolds

## Members from those without certified products:

du Pont  
Mobay  
Three M Company  
George L. Graf, Jr.  
Henry S. Byrne  
Caryl E. Twitchell

Robert B. Rector  
Paul W. Mitchell  
Louis F. Masonick

G. A. Berger

## Members by virtue of being a director:

Consumer  
National Safety Council  
Wiss, Janney and Elstner  
Consumer  
Texas Tech University  
Federal Housing Administration  
Consumer  
Glasstech

Mrs. Jean Cornwell  
Phil Dykstra  
Richard C. Elstner  
Mrs. Sylvia Lav  
Joseph E. Minor  
Lynford K. Snell  
Orville L. Pierson  
Norman Nitschke

SGCC Certification Program Administrator:

Robert A. Nance, CSC  
Carl R. Walden, CSC

Auditor:

Joseph B. Press, CPA

Legal Counsel:

Samuel Steen, Esquire

## *SGCC BOARD OF DIRECTORS*

### *Representing Public Interest*

Mrs. J.D. Cornwell, Jr.  
Route 4 Swan Lake Road  
Stockbridge, Georgia 30281

Mr. Phil Dykstra  
National Safety Council  
444 North Michigan Avenue  
Chicago, Illinois 60611

Mr. Richard C. Elstner, S.E.  
Wiss, Janney, Elstner  
and Associates, Inc.  
Consulting and Research Engineers  
330 Pfingsten Road  
Northbrook, Illinois 60062

Mrs. Sylvia Lav  
98 Princeton Road  
Rockville Center, New York 11570

Dr. Joseph E. Minor, P.E.  
Institute for Disaster Research  
Texas Tech University  
P.O. Box 4089  
Lubbock, Texas 79409

Dr. Orville L. Pierson  
862 Gainsway Road  
Yardley, Pennsylvania 19067

Mr. Lynford K. Snell  
HUD Building  
Architectural and Engineering Division  
Washington, D.C. 20024

### *Representing Industry*

Mr. Thomas C. Carson  
ASG Industries, Inc.  
P.O. Box 88  
Kingsport, Tennessee 37662

Mr. Homer H. Goldsberry  
Plaskolite, Inc.  
1770 Joyce Avenue  
Columbus, Ohio 43219

Dr. George L. Graf, Jr.  
E.I. du Pont de Nemours and Company  
Plastic Products and Resins Department  
Chestnut Run  
Wilmington, Delaware 19898

Mr. Richard L. Morrison  
Ford Motor Company  
1 Parklane Boulevard  
Dearborn, Michigan 48126

Mr. Norman Nitschke  
Glasstech, Inc.  
801 Front Street  
Toledo, Ohio 43605

Mr. Caryl E. Twitchell  
Building 230 - BC8  
3M Center  
3M Company  
St. Paul, Minnesota 55101

Mr. Donald J. Vild  
Libbey-Owens-Ford Company  
1701 East Broadway  
Toledo, Ohio 43605

### *SGCC PARTICIPANTS WITHOUT A CERTIFIED PRODUCT*

Dr. George L. Graf, Jr.  
E.I. du Pont de Nemours  
and Company  
Plastic Products  
and Resins Department  
Chestnut Run  
Wilmington, Delaware 19898

Mr. Henry S. Byrne  
Market Development  
Plastic and Coating Division  
Mobay Chemical Company  
Penn Lincoln Parkway West  
Pittsburgh, Pennsylvania 15205

Mr. Caryl E. Twitchell  
Building 230 - BC8  
3M Center  
3M Company  
St. Paul, Minnesota 55101

## CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC- 12 Virginia Glass	SGCC-131 Guardian Industries	SGCC-256 Tyre Brothers
SGCC- 14 Virginia Glass	SGCC-136 K-S-H	SGCC-257 Tuf-flex
SGCC- 17 ICP Industries	SGCC-137 Texas Tempered Glass	SGCC-258 Tuf-flex
SGCC- 19 Libbey-Owens-Ford	SGCC-140 Minex-Poland	SGCC-263 Guardian Industries
SGCC- 24 ASG Industries	SGCC-141 ASG Industries	SGCC-264 Guardian Industries
SGCC- 26 ASG Industries	SGCC-145 C-E Glass	SGCC-265 C-E Glass
SGCC- 27 ASG Industries	SGCC-146 C-E Glass	SGCC-266 PPG Industries
SGCC- 28 ASG Industries	SGCC-150 Libbey-Owens-Ford	SGCC-267 PPG Industries
SGCC- 31 ASG Industries	SGCC-151 Libbey-Owens-Ford	SGCC-270 Tuf-flex
SGCC- 34 Fourco Glass	SGCC-152 Plaskolite	SGCC-274 M. L. Burke
SGCC- 36 Fourco Glass	SGCC-153 Rohm and Haas	SGCC-279 Ohio Plate Glass
SGCC- 37 Vidrierias De Llodio	SGCC-154 Rohm and Haas	SGCC-286 Vidrierias De Llodio
SGCC- 38 Vidrierias De Llodio	SGCC-157 Chromalloy-Safetee	SGCC-291 Fourco Glass
SGCC- 39 Guardian Industries	SGCC-160 Guardian Industries	SGCC-293 Fourco Glass
SGCC- 40 Guardian Industries	SGCC-173 Sheffield Plastics	SGCC-295 PPG Industries
SGCC- 41 Guardian Industries	SGCC-181 Chromalloy-Safetee	SGCC-297 Fourco Glass
SGCC- 43 Guardian Industries	SGCC-182 Chromalloy-Safetee	SGCC-298 Tuf-flex
SGCC- 47 C-E Glass	SGCC-184 C-E Glass	SGCC-300 Guardian Industries
SGCC- 49 C-E Glass	SGCC-185 Ohio Plate Glass	SGCC-308 Falconer Plate Glass
SGCC- 50 C-E Glass	SGCC-186 Ohio Plate Glass	SGCC-311 Falconer Plate Glass
SGCC- 54 Hamilton of Indiana	SGCC-187 Ohio Plate Glass	SGCC-314 Tuf-flex
SGCC- 56 Hamilton of Indiana	SGCC-188 Ohio Plate Glass	SGCC-315 Tuf-flex
SGCC- 57 Hamilton of Indiana	SGCC-189 Taylor Products	SGCC-316 Rotuba Extruders
SGCC- 59 PPG Industries	SGCC-190 Taylor Products	SGCC-318 C-E Glass
SGCC- 60 PPG Industries	SGCC-191 Taylor Products	SGCC-320 Tuf-flex
SGCC- 61 PPG Industries	SGCC-192 Taylor Products	SGCC-321 Tuf-flex
SGCC- 63 PPG Industries	SGCC-194 PPG Industries	SGCC-322 Tuf-flex
SGCC- 64 PPG Industries	SGCC-195 PPG Industries	SGCC-323 Tuf-flex
SGCC- 65 PPG Industries	SGCC-196 PPG Industries	SGCC-328 Ohio Plate Glass
SGCC- 70 PPG Industries	SGCC-200 PPG Industries	SGCC-330 C-E Glass
SGCC- 73 PPG Industries	SGCC-201 C-E Glass	SGCC-331 C-E Glass
SGCC- 74 PPG Industries	SGCC-203 Ohio Plate Glass	SGCC-336 C-E Glass
SGCC- 75 PPG Industries	SGCC-205 Armour Laminated	SGCC-337 Tempered Glass
SGCC- 76 C-E Glass	SGCC-206 Armour Laminated	SGCC-338 Tempered Glass
SGCC- 82 Libbey-Owens-Ford	SGCC-209 Canadian Pittsburgh	SGCC-341 Ford Motor Company
SGCC- 88 Laminated Glass	SGCC-210 Robeco Products	SGCC-342 Ford Motor Company
SGCC- 89 ASG Industries	SGCC-219 PPG Industries	SGCC-344 C-E Glass
SGCC- 90 ASG Industries	SGCC-220 ASG Industries	SGCC-345 C-E Glass
SGCC- 91 ASG Industries	SGCC-221 K-S-H	SGCC-346 C-E Glass
SGCC- 92 Virginia Glass	SGCC-225 Safelite Industries	SGCC-348 Tempered Glass
SGCC- 93 Virginia Glass	SGCC-227 Viracon	SGCC-350 LOF Glass
SGCC- 94 Virginia Glass	SGCC-228 Viracon	SGCC-351 LOF Glass
SGCC- 95 Virginia Glass	SGCC-229 Tuf-flex	SGCC-352 LOF Glass
SGCC- 97 Guardian Industries	SGCC-232 Viracon	SGCC-357 Armour Laminated
SGCC- 98 Guardian Industries	SGCC-233 Viracon	SGCC-358 Armour Laminated
SGCC- 99 K-S-H	SGCC-237 Safelite Industries	SGCC-359 Sheffield Plastics
SGCC-102 PPG Industries	SGCC-245 C-E Glass	SGCC-360 C-E Glass
SGCC-104 Guardian Industries	SGCC-246 C-E Glass	SGCC-361 C-E Glass
SGCC-108 C-E Glass	SGCC-248 PPG Industries	SGCC-371 C-E Glass
SGCC-110 Texas Tempered Glass	SGCC-249 PPG Industries	SGCC-373 LOF Glass
SGCC-114 PPG Industries	SGCC-250 PPG Industries	SGCC-374 LOF Glass
SGCC-118 Flex-O-Glass	SGCC-251 Canadian Pittsburgh	SGCC-375 LOF Glass
SGCC-125 C-E Glass	SGCC-252 Tyre Brothers	SGCC-378 Chromalloy-Safetee
SGCC-127 Hamilton of Indiana	SGCC-253 Tyre Brothers	SGCC-379 Chromalloy-Safetee
SGCC-128 Hamilton of Indiana	SGCC-254 Tyre Brothers	SGCC-380 Chromalloy-Safetee
SGCC-129 Hamilton of Indiana	SGCC-255 Tyre Brothers	SGCC-381 Chromalloy-Safetee



## CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC-382 PPG Industries	SGCC-487 Guardian Industries	SGCC-595 Tempglass
SGCC-384 PPG Industries	SGCC-488 Temp-Safe	SGCC-597 Tempglass
SGCC-385 C-E Glass	SGCC-489 C-E Glass	SGCC-598 ASG Industries
SGCC-386 Libbey-Owens-Ford	SGCC-490 Tuf-flex	SGCC-600 Doulton Tempered
SGCC-389 Tuf-flex	SGCC-491 Tuf-flex	SGCC-601 Doulton Tempered
SGCC-390 Tuf-flex	SGCC-496 Mitsubishi Rayon	SGCC-602 Guardian Industries
SGCC-391 Tuf-flex	SGCC-499 ASG Industries	SGCC-603 Downey Glass
SGCC-392 Tuf-flex	SGCC-500 Northwestern Industries	SGCC-604 Downey Glass
SGCC-396 Ford Motor Company	SGCC-501 Northwestern Industries	SGCC-605 Downey Glass
SGCC-397 Ford Motor Company	SGCC-502 Northwestern Industries	SGCC-606 Downey Glass
SGCC-400 PPG Industries	SGCC-503 C-E Glass	SGCC-607 Downey Glass
SGCC-402 PPG Industries	SGCC-508 Central Glass	SGCC-608 Downey Glass
SGCC-403 PPG Industries	SGCC-509 Visador	SGCC-609 Downey Glass
SGCC-404 PPG Industries	SGCC-510 Visador	SGCC-610 Feather-lite
SGCC-405 PPG Industries	SGCC-511 C-E Glass	SGCC-612 Falconer Plate Glass
SGCC-409 Guardian Industries	SGCC-514 Downey Glass	SGCC-613 General Glass Imports
SGCC-410 C-E Glass	SGCC-515 Downey Glass	SGCC-614 Libbey-Owens-Ford
SGCC-411 C-E Glass	SGCC-516 Downey Glass	SGCC-615 M. L. Burke
SGCC-412 C-E Glass	SGCC-520 Anglass Industries	SGCC-617 Guardian Industries
SGCC-413 C-E Glass	SGCC-525 Tuf-flex	SGCC-618 C-E Glass
SGCC-414 C-E Glass	SGCC-526 Chromalloy-Safetee	SGCC-619 C-E Glass
SGCC-415 M. L. Burke	SGCC-532 Temp-Safe	SGCC-620 C-E Glass
SGCC-421 Tempered Glass	SGCC-533 Armour Laminated	SGCC-621 Hamilton of Indiana
SGCC-425 Guardian Industries	SGCC-534 Armour Laminated	SGCC-622 ASG Industries
SGCC-426 PPG Industries	SGCC-543 Central Glass	SGCC-623 Downey Glass
SGCC-427 PPG Industries	SGCC-544 Libbey-Owens-Ford	SGCC-624 Central Glass
SGCC-429 PPG Industries	SGCC-545 LOF Glass	SGCC-625 Armour Laminated
SGCC-430 PPG Industries	SGCC-547 ASG Industries	SGCC-626 Ohio Plate Glass
SGCC-431 PPG Industries	SGCC-552 Globe-Amerada	SGCC-627 Tempglass
SGCC-440 Temp-Safe	SGCC-553 Central Glass	SGCC-628 Tempglass
SGCC-441 Temp-Safe	SGCC-554 Globe-Amerada	SGCC-629 Tempered Glass
SGCC-444 Libbey-Owens-Ford	SGCC-558 Rohm and Haas	SGCC-630 Downey Glass
SGCC-445 Globe-Amerada	SGCC-560 Swedcast	SGCC-631 Guardian Industries
SGCC-446 PPG Industries	SGCC-561 Buchmin Industries	SGCC-632 ASG Industries
SGCC-448 Vidrierias De Llodio	SGCC-562 Ohio Plate Glass	SGCC-633 Guardian Industries
SGCC-449 Libbey-Owens-Ford	SGCC-563 C-E Glass	SGCC-634 Minex-Poland
SGCC-450 Libbey-Owens-Ford	SGCC-564 Buchmin Industries	SGCC-636 C-E Glass
SGCC-451 Libbey-Owens-Ford	SGCC-567 Manchester Products	SGCC-637 Cal Temp
SGCC-452 C-E Glass	SGCC-569 C-E Glass	SGCC-638 Cal Temp
SGCC-453 C-E Glass	SGCC-570 Texas Tempered Glass	SGCC-639 Cal Temp
SGCC-454 PPG Industries	SGCC-573 K-S-H	SGCC-640 Cal Temp
SGCC-455 PPG Industries	SGCC-574 Vidrios Securit	SGCC-641 Cal Temp
SGCC-456 PPG Industries	SGCC-575 Vidrios Securit	SGCC-642 Sun Valley
SGCC-458 Guardian Industries	SGCC-576 Vidrios Securit	SGCC-643 Sun Valley
SGCC-463 Viracon	SGCC-583 Artistic Glass	SGCC-644 M. L. Burke
SGCC-464 Libbey-Owens-Ford	SGCC-584 Artistic Glass	SGCC-645 ASG Industries
SGCC-470 Visador	SGCC-585 Artistic Glass	SGCC-646 Minex-Poland
SGCC-471 Guardian Industries	SGCC-586 Feather-lite	SGCC-647 PPG Industries
SGCC-474 PPG Industries	SGCC-587 ASG Industries	SGCC-648 PPG Industries
SGCC-475 PPG Industries	SGCC-588 ASG Industries	SGCC-649 General Electric
SGCC-478 Northwestern Industries	SGCC-589 M. L. Burke	SGCC-650 Armour Laminated
SGCC-479 Northwestern Industries	SGCC-590 General Glass Imports	SGCC-651 Armour Laminated
SGCC-481 Northwestern Industries	SGCC-592 Tempglass	SGCC-652 Armour Laminated
SGCC-482 Tuf-flex	SGCC-593 Tempglass	SGCC-653 PPG Industries
SGCC-483 Tuf-flex	SGCC-594 Tempglass	SGCC-654 Ohio Plate Glass
SGCC-484 Guardian Industries		SGCC-655 General Electric



# CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

## ASG Industries, Inc.; Greenland, Tennessee

SGCC-598	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-547	3/4	inch	tempered transparent glass	Unlimited size
SGCC-587	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-588	7/32	inch	tempered pattern glass (shallow patterns)	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-141	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC- 31	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC- 27	7/32	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC- 26	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-499	1/8:1/4		laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-632	1/4	inch	polished wired glass (3/4 inch diamond)	Unlimited size
SGCC-645	1/4	inch	polished wired glass (Pinstripe)	Unlimited size
SGCC-622	7/32	inch	pattern wired glass (Pinstripe; 1/2 inch parallel) (Finetex)	Unlimited size

## Anglass Industries, Inc.; San Fernando, California

SGCC-520	1/8	inch	tempered transparent glass	Unlimited size
----------	-----	------	----------------------------	----------------

## Armour Laminated Glass Company, Inc.; Brooklyn, New York

SGCC-650	1/4	inch	tempered transparent glass	Unlimited size
SGCC-651	1/2	inch	tempered transparent glass	Unlimited size
SGCC-533	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-652	3/8	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-534	1/2	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size

## Armour Laminated Glass Company, Inc.; Santa Fe Springs, California

SGCC-625	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 (shallow patterns)	Unlimited size
SGCC-357	1/4	inch	laminated transparent glass (0.030 inch plastic)	Unlimited size
SGCC-358	1/2	inch	laminated transparent glass (0.030 inch plastic)	Unlimited size

## Artistic Glass Products Company; Trumbauersville, Pennsylvania

SGCC-583	1/8	inch	tempered transparent glass	16" by 19"
SGCC-584	3/16	inch	tempered transparent glass	18" by 24"
SGCC-585	1/4	inch	tempered transparent glass	18" by 24"

## Buchmin Industries; Reedley, California

SGCC-561	7/32	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-564	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size

## M. L. Burke Company; Cornwells Heights, Pennsylvania

SGCC-415	1/8	inch	tempered transparent glass	Unlimited size
SGCC-274	3/16	inch	tempered transparent glass	Unlimited size
SGCC-615	1/4	inch	tempered transparent glass	Unlimited size
SGCC-644	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-589	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

## CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

### C-E Glass; Atlanta, Georgia

SGCC-108	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-371	3/8	inch	tempered	transparent glass	Unlimited size
SGCC-125	7/32	inch	tempered	pattern glass (shallow patterns)	Unlimited size

### C-E Glass; Bensenville, Illinois

SGCC-569	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-318	1/4	inch	tempered	transparent glass	Unlimited size

### C-E Glass; Carson, California

SGCC-453	1/8	inch	tempered	transparent glass	Unlimited size
SGCC-410	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-411	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-412	3/8	inch	tempered	transparent glass	Unlimited size
SGCC-413	1/2	inch	tempered	transparent glass	Unlimited size
SGCC-452	1/8	inch	tempered	pattern glass (shallow patterns)	Unlimited size
SGCC-618	1/8	inch	tempered	pattern glass (medium patterns)	Unlimited size
SGCC-414	3/16	inch	tempered	pattern glass (shallow patterns)	Unlimited size
SGCC-619	7/32	inch	tempered	pattern glass (shallow patterns)	Unlimited size
SGCC-620	7/32	inch	tempered	pattern glass (medium patterns)	Unlimited size

### C-E Glass; Cinnaaminson, New Jersey

SGCC-489	1/8	inch	tempered	transparent glass	Unlimited size
SGCC-503	5/32	inch	tempered	transparent glass (32 ounce)	Unlimited size
SGCC-245	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-246	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-345	3/8	inch	tempered	transparent glass	Unlimited size
SGCC-346	1/2	inch	tempered	transparent glass	Unlimited size
SGCC-265	7/32	inch	tempered	transparent glass	Unlimited size

### C-E Glass; Lancaster, Ohio; Quarry Road

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-563	1/8	inch	tempered	pattern glass (medium patterns)	27" by 69"

### C-E Glass; Lancaster, Ohio; Slocum Street

SGCC-330	3/16	inch	tempered	transparent glass	30" by 39"
SGCC-331	7/32	inch	tempered	transparent glass	30" by 39"

### C-E Glass; Miami, Florida

SGCC- 76	3/16	inch	tempered	transparent glass	Unlimited size
SGCC- 49	1/4	inch	tempered	transparent glass	Unlimited size
SGCC- 50	7/32	inch	tempered	pattern glass (shallow patterns)	Unlimited size

### C-E Glass; St. Louis, Missouri

SGCC-636	1/4	inch	polished	wired glass (3/4 inch diamond mesh)	Unlimited size
----------	-----	------	----------	-------------------------------------	----------------

### C-E Glass; Tampa, Florida

SGCC-385	3/16	inch	tempered	transparent glass	Unlimited size
SGCC- 47	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-201	7/32	inch	tempered	pattern glass (shallow patterns)	Unlimited size

# CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

## C-E Glass; Warrenton, Missouri

SGCC-360	1/8	inch	tempered transparent glass	Unlimited size
SGCC-336	3/16	inch	tempered transparent glass	Unlimited size
SGCC-361	1/4	inch	tempered transparent glass	Unlimited size
SGCC-511	1/8	inch	tempered pattern glass (shallow patterns)	30" by 70"
SGCC-344	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

## Cal-Temp; Santa Fe Springs, California

SGCC-637	3/16	inch	tempered transparent glass	Unlimited size
SGCC-638	1/4	inch	tempered transparent glass	Unlimited size
SGCC-639	3/8	inch	tempered transparent glass	Unlimited size
SGCC-640	1/2	inch	tempered transparent glass	Unlimited size
SGCC-641	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

## Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada

SGCC-251	1/8	inch	tempered transparent glass	Unlimited size
SGCC-209	3/16	inch	tempered transparent glass	Unlimited size

## Central Glass Company, Ltd.; Tokyo, Japan

SGCC-553	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-508	1/4	inch	polished wired glass (3/4 inch diamond mesh)	Unlimited size
SGCC-543	1/4	inch	polished wired glass (1/2 inch square mesh)	Unlimited size
SGCC-624	1/4	inch	polished wired glass (1 inch parallel mesh)	Unlimited size

## Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania

SGCC-526	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
SGCC-378	7/32	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-379	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-380	3/8	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-381	1/2	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size

## Doulton Tempered Glass, Ltd.; Bradford, England

SGCC-600	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC-601	1/4	inch	tempered transparent glass	Unlimited size

## Downey Glass Company; Downey, California

SGCC-603	1/8	inch	tempered transparent glass	Unlimited size
SGCC-606	3/16	inch	tempered transparent glass	Unlimited size
SGCC-609	1/4	inch	tempered transparent glass	Unlimited size
SGCC-604	1/8	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-605	1/8	inch	tempered pattern glass (medium patterns)	Unlimited size
SGCC-607	3/16	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-608	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

## Downey Glass Company; Los Angeles, California

SGCC-630	3/16	inch	tempered transparent glass	Unlimited size
SGCC-514	1/4	inch	tempered transparent glass	Unlimited size
SGCC-515	3/8	inch	tempered transparent glass	Unlimited size
SGCC-516	1/2	inch	tempered transparent glass	Unlimited size

## Downey Glass Company; Taipei, Taiwan

SGCC-623	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
----------	-----	------	--	----------------

# CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

Falconer Plate Glass Corporation; Falconer, New York

SGCC-308	1/4	inch	tempered transparent glass	Unlimited size
SGCC-612	3/8	inch	tempered transparent glass	Unlimited size
SGCC-311	1/2	inch	tempered transparent glass	Unlimited size

Feather-lite Manufacturing Company; Malvern, Arkansas

SGCC-586	1/8	inch	tempered transparent glass	Unlimited size
SGCC-610	3/16	inch	tempered transparent glass	Unlimited size

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

SGCC-118	0.080	inch	through 0.125 inch smooth extruded acrylic	Unlimited size
----------	-------	------	--	----------------

Ford Motor Company; Dearborn, Michigan

SGCC-341	1/8	inch	tempered transparent glass	Unlimited size
SGCC-396	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC-342	3/16	inch	tempered transparent glass	Unlimited size
SGCC-397	1/4	inch	tempered transparent glass	Unlimited size

Fourco Glass Company; Clarksburg, West Virginia

SGCC-297	1/8	inch	tempered transparent glass	Unlimited size
SGCC-291	3/16	inch	tempered transparent glass	Unlimited size
SGCC-293	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- 34	1/4	inch	tempered transparent glass	Unlimited size

General Electric Company; Mt. Vernon, Indiana

SGCC-649	0.080	inch	and greater thicknesses smooth extruded polycarbonate	Unlimited size
SGCC-655	0.125	inch	pattern extruded polycarbonate (Protect-A-Glaze)	Unlimited size

General Glass Imports Corporation; Medias, Romania

SGCC-613	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC-590	3/16	inch	tempered transparent glass	Unlimited size

Globe-Amerada Glass Company; Elk Grove Village, Illinois

SGCC-554	0.145	inch	laminated transparent glass (0.015 inch plastic)	34" by 40"
SGCC-445	7/32	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-552	3/8	inch	laminated transparent glass (0.030 inch plastic)	Unlimited size

Guardian Industries Corporation; Carleton, Michigan

SGCC-631	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-633	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-617	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

# CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

## Guardian Industries Corporation; Torrance, California

SGCC-409	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-425	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 (shallow patterns)	Unlimited size

## Guardian Industries Corporation; Upper Sandusky, Ohio

SGCC-458	7/32	inch	laminated	transparent glass (0.015 inch plastic)	Unlimited size
SGCC-487	1/4	inch	laminated	transparent glass (0.015 inch plastic)	Unlimited size
SGCC-484	3/8	inch	laminated	transparent glass (0.015 inch plastic)	Unlimited size

## Guardian Industries Corporation; Webster, Massachusetts

SGCC-300	1/8	inch	tempered	transparent glass	Unlimited size
SGCC-104	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-602	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-471	3/8	inch	tempered	transparent glass	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- 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-621	1/8	inch	tempered	pattern glass (shallow patterns)	28" by 67"
SGCC-129	7/32	inch	tempered	pattern glass (shallow patterns)	Unlimited size

## ICP Industries, Inc.; Miami, Florida

SGCC- 17	0.090	inch	through 3/16 inch	pattern extruded plastic (Indoor use only) (Seafair)	Unlimited size
----------	-------	------	-------------------	--	----------------

## K-S-H, Inc.; Crestwood, Missouri

SGCC- 99	0.100	inch	through 3/16 inch	pattern extruded plastic (Indoor use only) (Glacial, Calypso, Roundel)	Unlimited size
----------	-------	------	-------------------	--	----------------

## K-S-H, Inc.; Tustin, California

SGCC-573	0.080	inch	through 0.125 inch	smooth extruded acrylic	Unlimited size
SGCC-221	0.100	inch	through 3/16 inch	pattern extruded plastic (Indoor use only) (Calypso, Glacial, Starlite, Roundel)	Unlimited size

## K-S-H, Inc.; Xenia, Ohio

SGCC-136	0.060	inch	through 0.125 inch	smooth extruded acrylic	Unlimited size
----------	-------	------	--------------------	-------------------------	----------------

## LOF Glass, Inc.; Laurinburg, North Carolina

SGCC-350	1/8	inch	tempered	transparent glass	Unlimited size
SGCC-545	5/32	inch	tempered	transparent glass (32 ounce)	Unlimited size
SGCC-351	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-352	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-373	5/16	inch	tempered	transparent glass	Unlimited size
SGCC-374	3/8	inch	tempered	transparent glass	Unlimited size
SGCC-375	1/2	inch	tempered	transparent glass	Unlimited size

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

Laminated Glass Corporation; Detroit, Michigan

SGCC- 88 7/32 inch laminated transparent glass (0.015 inch plastic) Unlimited size

Libbey-Owens-Ford Company; East Toledo, Ohio

SGCC-450 SS/SS laminated transparent glass (0.015 inch plastic) Unlimited size

SGCC-451 SS/DS laminated transparent glass (0.015 inch plastic) Unlimited size

SGCC- 82 1/4 inch laminated transparent glass (0.015 inch plastic) Unlimited size

SGCC-614 1/2 inch laminated transparent glass (0.030 inch plastic) Unlimited size

Libbey-Owens-Ford Company; Rossford, Ohio

SGCC-386 3/16 inch tempered transparent glass Unlimited size

SGCC- 19 1/4 inch tempered transparent glass Unlimited size

SGCC-464 5/16 inch tempered transparent glass Unlimited size

SGCC-449 3/8 inch tempered transparent glass Unlimited size

SGCC-150 1/2 inch tempered transparent glass Unlimited size

SGCC-544 5/8 inch tempered transparent glass Unlimited size

SGCC-151 3/4 inch tempered transparent glass Unlimited size

SGCC-444 7/8 inch tempered transparent glass Unlimited size

Manchester Products Company; Chatsworth, California

SGCC-567 0.100 inch smooth extruded acrylic Unlimited size

Minex-Poland; Jaroszwiec, Poland

SGCC-140 7/32 inch tempered pattern glass (shallow patterns) Unlimited size

Minex-Poland; Sandomierz, Poland

SGCC-634 1/8 inch tempered transparent glass Unlimited size

SGCC-646 3/16 inch tempered transparent glass Unlimited size

Mitsubishi Rayon Company, Ltd.; Ohtake, Japan

SGCC-496 0.080 inch and greater thicknesses smooth cast acrylic Unlimited size

Northwestern Industries, Inc.; Seattle, Washington

SGCC-478 1/8 inch tempered transparent glass Unlimited size

SGCC-479 3/16 inch tempered transparent glass Unlimited size

SGCC-481 1/4 inch tempered transparent glass Unlimited size

SGCC-500 3/8 inch tempered transparent glass Unlimited size

SGCC-501 1/2 inch tempered transparent glass Unlimited size

SGCC-502 7/32 inch tempered pattern glass (shallow patterns) Unlimited size

Ohio Plate Glass Company; Lewisburg, Ohio

SGCC-187 1/8 inch tempered transparent glass Unlimited size

SGCC-185 3/16 inch tempered transparent glass Unlimited size

SGCC-279 7/32 inch tempered transparent glass Unlimited size

SGCC-186 1/4 inch tempered transparent glass Unlimited size

SGCC-203 1/8 inch tempered pattern glass (shallow patterns) Unlimited size

SGCC-654 1/8 inch tempered pattern glass (medium patterns) Unlimited size

SGCC-188 3/16 inch tempered pattern glass (shallow patterns) Unlimited size

SGCC-328 3/16 inch tempered pattern glass (deep patterns) Unlimited size

SGCC-562 7/32 inch tempered pattern glass (shallow patterns) Unlimited size

SGCC-626 7/32 inch tempered pattern glass (medium patterns) Unlimited size

# CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

## PPG Industries, Inc.; Baltimore, Maryland

SGCC-454	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-455	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-474	3/8	inch	tempered	transparent glass	Unlimited size
SGCC-475	1/2	inch	tempered	transparent glass	Unlimited size
SGCC-456	7/32	inch	tempered	pattern glass (shallow patterns)	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
SGCC-382	1/4	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-647	3/8	inch	tempered	transparent glass	Unlimited size
SGCC-648	1/2	inch	tempered	transparent glass	Unlimited size
SGCC-653	7/32	inch	tempered	pattern glass (shallow patterns)	Unlimited size

## PPG Industries, Inc.; Creighton, Pennsylvania

SGCC-114	1/4	inch	laminated	transparent glass (0.015 inch plastic)	Unlimited size
----------	-----	------	-----------	--	----------------

## PPG Industries, Inc.; Crestline, Ohio

SGCC- 60	1/8	inch	tempered	transparent glass	Unlimited size
SGCC- 65	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-102	1/4	inch	tempered	transparent glass	26 3/4" by 72"
SGCC-446	3/16	inch	tempered	pattern glass (deep patterns)	Unlimited size

## PPG Industries, Inc.; Dallas, Texas

SGCC-400	3/16	inch	tempered	transparent glass	Unlimited size
SGCC-402	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-405	3/8	inch	tempered	transparent glass	Unlimited size
SGCC-403	1/2	inch	tempered	transparent glass	Unlimited size
SGCC-404	7/32	inch	tempered	pattern glass (shallow patterns)	Unlimited size

## PPG Industries, Inc.; Ford City, Pennsylvania

SGCC- 61	3/16	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-295	1/8	inch	tempered	transparent glass	Unlimited size
SGCC- 64	3/16	inch	tempered	transparent glass	Unlimited size
SGCC- 73	1/4	inch	tempered	transparent glass	Unlimited size
SGCC-384	1/8	inch	tempered	pattern glass (medium patterns)	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 (shallow patterns)	Unlimited size



# CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

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

PPG Industries, Inc.; Westboro, Massachusetts

SGCC-427 3/16 inch tempered transparent glass

Unlimited size

SGCC-426 1/4 inch tempered transparent glass

Unlimited size

SGCC-429 3/8 inch tempered transparent glass

Unlimited size

SGCC-430 1/2 inch tempered transparent glass

Unlimited size

SGCC-431 7/32 inch tempered pattern glass (shallow patterns)

Unlimited size

Plaskolite, Inc.; Columbus, Ohio

SGCC-152 0.080 inch through 0.125 inch smooth extruded acrylic

Unlimited size

Robeco Products, Inc.; Tainan, Taiwan

SGCC-210 0.080 inch and greater thicknesses smooth cast acrylic

Unlimited size

Rohm and Haas Company; Kensington, Connecticut

SGCC-558 0.090 inch and greater thicknesses smooth extruded polycarbonate

Unlimited size

Rohm and Haas Company; Knoxville, Tennessee

SGCC-153 0.080 inch and greater thicknesses smooth cast acrylic

Unlimited size

Rohm and Haas Company; Louisville, Kentucky

SGCC-154 0.080 inch and greater thicknesses smooth cast acrylic

Unlimited size

Rotuba Extruders, Inc.; Linden, New Jersey

SGCC-316 0.080 inch and greater thicknesses smooth extruded acrylic

Unlimited size

Safelite Industries; Denver, Colorado

SGCC-237 1/4 inch laminated transparent glass (0.015 inch plastic)

Unlimited size

Safelite Industries; Wichita, Kansas

SGCC-225 1/8 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

SGCC-359 0.060 inch and greater thicknesses smooth extruded

polycarbonate

Unlimited size

Sun Valley Tempered Glass Company; Oxnard, California

SGCC-642 3/16 inch tempered transparent glass

Unlimited size

SGCC-643 1/4 inch tempered transparent glass

Unlimited size

Swedcast Corporation, Florence, Kentucky

SGCC-560 0.080 inch and greater thicknesses smooth cast acrylic (SWEDGLAZE SG-B)

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 7/32 inch tempered pattern glass (shallow patterns)

Unlimited size

# CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

## Tempered Glass Corporation; Tampa, Florida

SGCC-629	3/16	inch	tempered transparent glass	Unlimited size
SGCC-337	1/4	inch	tempered transparent glass	Unlimited size
SGCC-348	3/8	inch	tempered transparent glass	Unlimited size
SGCC-338	1/2	inch	tempered transparent glass	Unlimited size
SGCC-421	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

## Tempglass, Inc.; Perrysburg, Ohio

SGCC-592	3/16	inch	tempered transparent glass	Unlimited size
SGCC-593	1/4	inch	tempered transparent glass	Unlimited size
SGCC-594	3/8	inch	tempered transparent glass	Unlimited size
SGCC-595	1/2	inch	tempered transparent glass	Unlimited size
SGCC-627	5/8	inch	tempered transparent glass	Unlimited size
SGCC-628	3/4	inch	tempered transparent glass	Unlimited size
SGCC-597	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size

## Temp-Safe, Inc.; Edmond, Oklahoma

SGCC-440	3/16	inch	tempered transparent glass	Unlimited size
SGCC-441	1/4	inch	tempered transparent glass	Unlimited size
SGCC-532	3/8	inch	tempered transparent glass	Unlimited size
SGCC-488	1/2	inch	tempered transparent glass	Unlimited size

## Texas Tempered Glass Company; Houston, Texas

SGCC-110	3/16	inch	tempered transparent glass	Unlimited size
SGCC-137	1/4	inch	tempered transparent glass	Unlimited size
SGCC-570	7/32	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size

## Tuf-flex Glass, Inc.; Atlanta, Georgia

SGCC-320	3/16	inch	tempered transparent glass	Unlimited size
SGCC-321	1/4	inch	tempered transparent glass	Unlimited size
SGCC-322	3/8	inch	tempered transparent glass	Unlimited size
SGCC-323	1/2	inch	tempered 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

## Tuf-flex Glass, Inc.; Irving, Texas

SGCC-389	3/16	inch	tempered transparent glass	Unlimited size
SGCC-390	1/4	inch	tempered transparent glass	Unlimited size
SGCC-391	3/8	inch	tempered transparent glass	Unlimited size
SGCC-392	1/2	inch	tempered transparent glass	Unlimited size

## Tuf-flex Glass, Inc.; Saddle Brook, New Jersey

SGCC-525	3/16	inch	tempered transparent glass	Unlimited size
SGCC-298	1/4	inch	tempered transparent glass	Unlimited size
SGCC-314	3/8	inch	tempered transparent glass	Unlimited size
SGCC-315	1/2	inch	tempered transparent glass	Unlimited size

## Tuf-flex Glass, Inc.; Union City, California

SGCC-490	3/16	inch	tempered transparent glass	Unlimited size
SGCC-491	1/4	inch	tempered transparent glass	Unlimited size
SGCC-482	3/8	inch	tempered transparent glass	Unlimited size
SGCC-483	1/2	inch	tempered transparent glass	Unlimited size

# CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 21

## 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 (shallow patterns)	Unlimited size

## Vidrierias De Llodio, S. A.; Alava, Spain

SGCC-286	1/8	inch	tempered transparent glass	Unlimited size
SGCC-448	5/32	inch	tempered transparent glass (32 ounce)	Unlimited size
SGCC- 38	3/16	inch	tempered transparent glass	Unlimited size
SGCC- 37	7/32	inch	tempered transparent glass	Unlimited size

## Vidrios Securit, S. A.; Barranquilla, Colombia

SGCC-574	1/8	inch	tempered transparent glass	Unlimited size
SGCC-575	3/16	inch	tempered transparent glass	Unlimited size
SGCC-576	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-463	7/32	inch	tempered pattern glass (shallow patterns)	Unlimited size
SGCC-233	SS/DS		laminated transparent glass (0.015 inch plastic)	Unlimited size
SGCC-232	1/4	inch	laminated transparent glass (0.015 inch plastic)	Unlimited size

## Virginia Glass Products Corporation; Martinsville, Virginia

SGCC- 12	3/16	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 (shallow patterns)	Unlimited size

## Visador Company; Jasper, Texas

SGCC-470	1/8	inch	leaded transparent glass	25" by 67"
			4.20 by 9.89 inch and 3.76 by 7.95 inch diamonds	
SGCC-509	1/8	inch	leaded annealed pattern glass (Cathedral)	25" by 67"
			3.76 by 7.95 inch and 4.35 by 9.85 inch diamonds	
			3.24 by 8.04 inch diamond	22" by 72"
SGCC-510	3/16	inch	leaded annealed pattern glass (Flemish)	25" by 67"
			3.76 by 7.95 inch and 4.32 by 9.86 inch diamonds	
			3.24 by 8.01 inch diamond	22" by 72"

\* \* \* \* \*

## CLASSIFIED TEMPERED GLASS PATTERNS

### 1/8 inch shallow

(01) P-516	(02) Luxlite	(03) Factrolite	(09) Spray Lite
(32) Muralex	(34) Velvex	(36) Ribbed	(37) Aquatex
(38) Finetex	(39) Industrex		

### 1/8 inch medium

(04) Rattan	(05) Cotswold	(06) Patchwork	(07) Burlap
(08) Smooth Rough	(11) Flemish	(31) Skytex	(33) Seashell
(35) Flax	(52) Pattern 73	(56) Syenite	(57) Pattern 229

### 1/8 inch deep

(10) Autumn

### 3/16 inch shallow

(50) Pattern 62	(51) P-516	(54) Shower lite
-----------------	------------	------------------

### 3/16 inch medium

(58) Pattern 76

### 3/16 inch deep

(12) Oceanic	(13) Roundel	(41) Lozenge
--------------	--------------	--------------

### 7/32 inch shallow

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

### 7/32 inch medium

(43) Seashell	(45) Beadex	(47) Syenite	(48) Flemish
(49) Textured Linex			

### 7/32 inch deep

(29) Lozenge	(53) Broad lite
--------------	-----------------

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## TEMPERED TRANSPARENT GLASS

### 1/8 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-598	Unlimited size
Anglass Industries, Inc.; San Fernando, California	SGCC-520	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-583	16" by 19"
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-415	Unlimited size
C-E Glass; Carson, California	SGCC-453	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-489	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-184	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-360	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario	SGCC-251	Unlimited size
Downey Glass Company; Downey, California	SGCC-603	Unlimited size
Feather-lite Manufacturing Company; Malvern, Arkansas	SGCC-586	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC-341	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia	SGCC-297	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC-300	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC- 54	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-350	Unlimited size
Minex-Poland; Sandomierz, Poland	SGCC-634	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-478	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	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC-295	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC- 59	Unlimited size
Safelite Industries; Wichita, Kansas	SGCC-225	Unlimited size
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC-286	Unlimited size
Vidrios Securit, S. A.; Barranquilla, Colombia	SGCC-574	Unlimited size

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

C-E Glass; Cinnaminson, New Jersey	SGCC-503	Unlimited size
Doulton Tempered Glass, Ltd.; Bradford, England	SGCC-600	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC-396	Unlimited size
General Glass Imports Corporation; Medias, Romania	SGCC-613	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-545	Unlimited size
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC-448	Unlimited size

### 3/16 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-220	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC- 28	Unlimited size
Armour Laminated Glass Company, Inc.; Santa Fe Springs, California	SGCC-625	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-584	18" by 24"
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-274	Unlimited size
C-E Glass; Bensenville, Illinois	SGCC-569	Unlimited size
C-E Glass; Carson, California	SGCC-410	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-245	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-145	Unlimited size
C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-330	30" by 39"
C-E Glass; Miami, Florida	SGCC- 76	Unlimited size
C-E Glass; Tampa, Florida	SGCC-385	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-336	Unlimited size
Cal Temp; Santa Fe Springs, California	SGCC-637	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario	SGCC-209	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC-526	Unlimited size

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## 3/16 inch tempered transparent glass - continued

Downey Glass Company; Downey, California	SGCC-606	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC-630	Unlimited size
Feather-lite Manufacturing Company; Malvern, Arkansas	SGCC-610	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC-342	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia	SGCC-291	Unlimited size
Fourco Glass Company; Fort Smith, Arkansas	SGCC- 36	Unlimited size
General Glass Imports Corporation; Medias, Romania	SGCC-590	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC-631	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-633	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC-409	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC-104	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC- 56	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-351	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-386	Unlimited size
Minex-Poland; Sandomierz, Poland	SGCC-646	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-479	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-185	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC-454	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	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC-400	Unlimited size
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. Zion, Illinois	SGCC- 63	Unlimited size
PPG Industries, Inc.; Westboro, Massachusetts	SGCC-427	Unlimited size
Sun Valley Tempered Glass Company; Oxnard, California	SGCC-642	Unlimited size
Taylor Products, Inc.; Payne, Ohio	SGCC-190	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-629	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-592	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC-440	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC-110	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-320	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-257	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-389	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-525	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC-490	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC-252	Unlimited size
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC- 38	Unlimited size
Vidrios Securit, S. A.; Barranquilla, Colombia	SGCC-575	Unlimited size
Viracon, Inc.; Owatonna, Minnesota	SGCC-227	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 12	Unlimited size

## 7/32 inch tempered transparent glass

C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-331	30" by 39"
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 39	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC-425	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-279	Unlimited size

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## 7/32 inch tempered transparent glass - continued

Taylor Products, Inc.; Payne, Ohio	SGCC-192	Unlimited size
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC- 37	Unlimited size
Vidrios Securit, S. A.; Barranquilla, Colombia	SGCC-576	Unlimited size

## 1/4 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC- 89	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC- 24	Unlimited size
Armour Laminated Glass Company, Inc.; Brooklyn, New York	SGCC-650	Unlimited size
Armour Laminated Glass Company, Inc.; Santa Fe Springs, California	SGCC-205	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-585	18" by 24"
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-615	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-108	Unlimited size
C-E Glass; Bensenville, Illinois	SGCC-318	Unlimited size
C-E Glass; Carson, California	SGCC-411	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-246	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-146	Unlimited size
C-E Glass; Miami, Florida	SGCC- 49	Unlimited size
C-E Glass; Tampa, Florida	SGCC- 47	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-361	Unlimited size
Cal Temp; Santa Fe Springs, California	SGCC-638	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC-157	Unlimited size
Doulton Tempered Glass, Ltd.; Bradford, England	SGCC-601	Unlimited size
Downey Glass Company; Downey, California	SGCC-609	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC-514	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York	SGCC-308	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC-397	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia	SGCC-293	Unlimited size
Fourco Glass Company; Fort Smith, Arkansas	SGCC- 34	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC-131	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 40	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 43	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC-602	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC- 57	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-352	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC- 19	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-481	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-186	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC-455	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC-382	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.; Dallas, Texas	SGCC-402	Unlimited size
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.; Westboro, Massachusetts	SGCC-426	Unlimited size
Sun Valley Tempered Glass Company; Oxnard, California	SGCC-643	Unlimited size
Taylor Products, Inc.; Payne, Ohio	SGCC-189	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-337	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-593	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC-441	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC-137	Unlimited size



# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## 1/4 inch tempered transparent glass - continued

Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-321	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-229	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-390	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-298	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC-491	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

## 5/16 inch tempered transparent glass

LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-373	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-464	Unlimited size

## 3/8 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC- 90	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-371	Unlimited size
C-E Glass; Carson, California	SGCC-412	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-345	Unlimited size
Cal Temp; Santa Fe Springs, California	SGCC-639	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC-181	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC-515	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York	SGCC-612	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC-160	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 41	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 97	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC-471	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-127	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-374	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-449	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-500	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC-474	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-647	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC-405	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 74	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC-196	Unlimited size
PPG Industries, Inc.; Westboro, Massachusetts	SGCC-429	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-348	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-594	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC-532	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-322	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-258	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-391	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-314	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC-482	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
Armour Laminated Glass Company, Inc.; Brooklyn, New York	SGCC-651	Unlimited size
C-E Glass; Carson, California	SGCC-413	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-346	Unlimited size
Cal Temp; Santa Fe Springs, California	SGCC-640	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC-182	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC-516	Unlimited size

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## 1/2 inch tempered transparent glass - continued

Falconer Plate Glass Corporation; Falconer, New York	SGCC-311	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
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-375	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-150	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-501	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC-475	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-648	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC-403	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 75	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC-200	Unlimited size
PPG Industries, Inc.; Westboro, Massachusetts	SGCC-430	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-338	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-595	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC-488	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-323	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-270	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-392	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-315	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC-483	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC-255	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 94	Unlimited size

## 5/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-544	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-627	Unlimited size

## 3/4 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-547	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-151	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC-248	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-628	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 95	Unlimited size

## 7/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-444	Unlimited size
---	----------	----------------

## TEMPERED PATTERN GLASS

### 1/8 inch tempered pattern glass (shallow patterns)

ASG Industries, Inc.; Greenland, Tennessee	SGCC-587	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC-141	Unlimited size
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-644	Unlimited size
C-E Glass; Carson, California	SGCC-452	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-511	30" by 70"
Downey Glass Company; Downey, California	SGCC-604	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-621	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-203	Unlimited size

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## 1/8 inch tempered pattern glass (medium patterns)

C-E Glass; Carson, California	SGCC-618	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-563	27" by 69"
Downey Glass Company; Downey, California	SGCC-605	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-654	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC-384	Unlimited size

## 3/16 inch tempered pattern glass (shallow patterns)

C-E Glass; Carson, California	SGCC-414	Unlimited size
Downey Glass Company; Downey, California	SGCC-607	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-188	Unlimited size

## 3/16 inch tempered pattern glass (deep patterns)

Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-328	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC-446	Unlimited size

## 7/32 inch tempered pattern glass (shallow patterns)

ASG Industries, Inc.; Greenland, Tennessee	SGCC-588	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC- 31	Unlimited size
Armour Laminated Glass Company, Inc.; Santa Fe Springs, California	SGCC-206	Unlimited size
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-589	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-125	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-265	Unlimited size
C-E Glass; Carson, California	SGCC-619	Unlimited size
C-E Glass; Miami, Florida	SGCC- 50	Unlimited size
C-E Glass; Tampa, Florida	SGCC-201	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-344	Unlimited size
Cal Temp; Santa Fe Springs, California	SGCC-641	Unlimited size
Downey Glass Company; Downey, California	SGCC-608	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-617	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC-264	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-129	Unlimited size
Minex-Poland; Jaroszwieć, Poland	SGCC-140	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC-502	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-562	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC-456	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-653	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC-404	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC-219	Unlimited size
PPG Industries, Inc.; Westboro, Massachusetts	SGCC-431	Unlimited size
Taylor Products, Inc.; Payne, Ohio	SGCC-191	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-421	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-597	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC-256	Unlimited size
Viracon, Inc.; Owatonna, Minnesota	SGCC-463	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 92	Unlimited size

## 7/32 inch tempered pattern glass (medium patterns)

C-E Glass; Carson, California	SGCC-620	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-626	Unlimited size

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## LAMINATED TRANSPARENT GLASS

### 0.145 inch laminated transparent glass

Globe-Amerada Glass Company; Elk Grove Village, Illinois (0.015 inch plastic)	SGCC-554	34" by 40"
--	----------	------------

### SS/SS laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic)	SGCC-450	Unlimited size
---	----------	----------------

### SS/DS laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic)	SGCC-451	Unlimited size
Viracon, Inc.; Owatonna, Minnesota (0.015 inch plastic)	SGCC-233	Unlimited size

### 7/32 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee (0.015 inch plastic)	SGCC- 27	Unlimited size
Buchmin Industries; Reedley, California (0.015 inch plastic)	SGCC-561	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania (0.015 inch plastic)	SGCC-378	Unlimited size
Globe-Amerada Glass Company; Elk Grove Village, Illinois (0.015 inch plastic)	SGCC-445	Unlimited size
Guardian Industries Corporation; Upper Sandusky, Ohio (0.015 inch plastic)	SGCC-458	Unlimited size
Laminated Glass Corporation; Detroit, Michigan (0.015 inch plastic)	SGCC- 88	Unlimited size
Texas Tempered Glass Company; Houston, Texas (0.015 inch plastic)	SGCC-570	Unlimited size

### 1/4 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee (0.015 inch plastic)	SGCC- 26	Unlimited size
Armour Laminated Glass Company, Inc.; Brooklyn, New York (0.015 inch plastic)	SGCC-533	Unlimited size
Armour Laminated Glass Company, Inc.; Santa Fe Springs, California (0.030 inch plastic)	SGCC-357	Unlimited size
Buchmin Industries; Reedley, California (0.015 inch plastic)	SGCC-564	Unlimited size
Central Glass Company, Ltd.; Tokyo, Japan (0.015 inch plastic)	SGCC-553	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania (0.015 inch plastic)	SGCC-379	Unlimited size
Downey Glass Company; Taipei, Taiwan (0.015 inch plastic)	SGCC-623	Unlimited size
Guardian Industries Corporation; Upper Sandusky, Ohio (0.015 inch plastic)	SGCC-487	Unlimited size
Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic)	SGCC- 82	Unlimited size
PPG Industries, Inc.; Creighton, Pennsylvania (0.015 inch plastic)	SGCC-114	Unlimited size
Safelite Industries; Denver, Colorado (0.015 inch plastic)	SGCC-237	Unlimited size
Viracon, Inc.; Owatonna, Minnesota (0.015 inch plastic)	SGCC-232	Unlimited size

### 3/8 inch laminated transparent glass

Armour Laminated Glass Company, Inc.; Brooklyn, New York (0.015 inch plastic)	SGCC-652	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania (0.015 inch plastic)	SGCC-380	Unlimited size
Globe-Amerada Glass Company; Elk Grove Village, Illinois (0.030 inch plastic)	SGCC-552	Unlimited size
Guardian Industries Corporation; Upper Sandusky, Ohio (0.015 inch plastic)	SGCC-484	Unlimited size

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## 1/8:1/4 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee (0.015 inch plastic) SGCC-499 Unlimited size

## 1/2 inch laminated transparent glass

Armour Laminated Glass Company, Inc.; Brooklyn, New York  
(0.015 inch plastic) SGCC-534 Unlimited size

Armour Laminated Glass Company, Inc.; Santa Fe Springs, California  
(0.030 inch plastic) SGCC-358 Unlimited size

Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania  
(0.015 inch plastic) SGCC-381 Unlimited size

Libbey-Owens-Ford Company; East Toledo, Ohio (0.030 inch plastic) SGCC-614 Unlimited size

## TRANSPARENT WIRED GLASS

### 1/4 inch polished wired glass

ASG Industries, Inc.; Kingsport, Tennessee (3/4 inch diamond) SGCC-632 Unlimited size

ASG Industries, Inc.; Kingsport, Tennessee (pinstripe) SGCC-645 Unlimited size

C-E Glass; St. Louis, Missouri (3/4 inch diamond mesh) SGCC-636 Unlimited size

Central Glass Company Ltd.; Tokyo, Japan (3/4 inch diamond mesh) SGCC-508 Unlimited size

Central Glass Company Ltd.; Tokyo, Japan (1/2 inch square mesh) SGCC-543 Unlimited size

Central Glass Company, Ltd.; Tokyo, Japan (1 inch parallel mesh) SGCC-624 Unlimited size

## PATTERN WIRED GLASS

### 7/32 inch pattern wired glass

ASG Industries, Inc.; Kingsport, Tennessee SGCC-622 Unlimited size

## SAFETY PLASTIC SHEET

### 0.060 inch and greater thicknesses polycarbonate

Sheffield Plastics, Inc.; Sheffield, Massachusetts  
(extruded; smooth) SGCC-359 Unlimited size

### 0.060 inch through 0.125 inch acrylic

K-S-H, Inc.; Xenia, Ohio (extruded; smooth) SGCC-136 Unlimited size

### 0.080 inch and greater thicknesses acrylic

Mitsubishi Rayon Company, Ltd.; Ohtake, Japan (cast, smooth) SGCC-496 Unlimited size

Robeco Products, Inc.; Tainan, Taiwan (cast; smooth) SGCC-210 Unlimited size

Rohm and Haas Company; Knoxville, Tennessee (cast; smooth) SGCC-153 Unlimited size

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

Rotuba Extruders, Inc.; Linden, New Jersey (extruded; smooth) SGCC-316 Unlimited size

Swedcast Corporation; Florence, Kentucky (cast; smooth)  
(SWEDGLAZE SG-B) SGCC-560 Unlimited size

### 0.080 and greater thicknesses polycarbonate

General Electric Company; Mt. Vernon, Indiana (extruded; smooth) SGCC-649 Unlimited size

### 0.125 inch pattern polycarbonate

General Electric Company; Mt. Vernon, Indiana SGCC-655 Unlimited size

# CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

## 0.080 inch through 0.125 inch acrylic

Flex-O-Glass, Inc.; Dixon, Illinois (extruded; smooth)

SGCC-118 Unlimited size

K-S-H, Inc.; Tustin, California (extruded; smooth)

SGCC-573 Unlimited size

Plaskolite, Inc.; Columbus, Ohio (extruded; smooth)

SGCC-152 Unlimited size

Sheffield Plastics, Inc.; Sheffield, Massachusetts  
(extruded; smooth)

SGCC-173 Unlimited size

## 0.090 inch and greater thicknesses polycarbonate

Rohm and Haas Company; Kensington, Connecticut (extruded; smooth)

SGCC-558 Unlimited size

## 0.100 inch acrylic

Manchester Products Company; Chatsworth, California  
(extruded; smooth)

SGCC-567 Unlimited size

## LEADED GLASS

### 1/8 inch annealed transparent glass

Visador Company; Jasper, Texas

4.20 by 9.89 inch and 3.76 by 7.95 inch diamonds

SGCC-470 25" by 67"

### 1/8 inch annealed pattern glass

Visador Company; Jasper, Texas (Cathedral)

3.76 by 7.95 and 4.35 by 9.85 inch diamonds

3.24 by 8.04 inch diamond

SGCC-509

25" by 67"

22" by 72"

### 3/16 inch annealed pattern glass

Visador Company; Jasper, Texas (Flemish)

3.76 by 7.95 and 4.32 by 9.86 inch diamonds

3.24 by 8.01 inch diamond

SGCC-510

25" by 67"

22" by 72"

## SAFETY PLASTIC SHEET FOR INDOOR USE ONLY

### 0.090 inch through 3/16 inch plastic

ICP Industries, Inc.; Miami, Florida (pattern extruded;  
indoor use only) (Seaflair)

SGCC- 17 Unlimited size

### 0.100 inch through 3/16 inch plastic

K-S-H, Inc.; Crestwood, Missouri (pattern; extruded;  
indoor use only) (Glacial, Calypso, Roundel)

SGCC- 99 Unlimited size

K-S-H, Inc.; Tustin, California (pattern; extruded;  
indoor use only; (Calypso, Glacial, Starlite, Roundel)

SGCC-221 Unlimited size

\* \* \* \* \*

## 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 on each piece of safety glazing material.

The permanent label must contain the SGCC number, ANSI Z97.1-1975, nominal thickness, and the letter U or L indicating certified size.

Safety plastic sheet for indoor use only must indicate the wording "Indoor Use Only", SGCC number, nominal thickness, and the letter U or L indicating certified size.

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 participant's 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 participant's certified production.

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

\* \* \* \* \*



EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

**ASG INDUSTRIES, INC.**  
P. O. Box 88  
Kingsport, Tennessee 37662

**BUCHMIN INDUSTRIES**  
1485 East Curtis Avenue  
Reedley, California 93654

▲▲  
TIRU-TEMP  
TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1975  
1/8U SGCC 598  
ASG

Tentative label  
ANSI Z97.1-1975  
SGCC-561 7/32U

**ANGLASS INDUSTRIES, INC.**  
12364 Gladstone Avenue  
San Fernando, California 91342

**M. L. BURKE COMPANY**  
33204 Western Avenue  
Union City, California 94587

TEMPERED  
SAFETY GLASS  
**ANGLASS**  
CALIFORNIA, USA  
ANSI Z97.1-1975  
SGCC-520 1/8U

**MLB TEMP**  
SAFETY TEMPERED  
GLASS  
ANSI-Z97.1-1975  
SGCC-274 3/16U

**ARMOUR LAMINATED GLASS COMPANY, INC.**  
9401 Ann Street  
Santa Fe Springs, California 90670

**C-E GLASS**  
825 Hylton Road  
Pennsauken, New Jersey 08110

Tentative label  
ANSI Z97.1-1975  
SGCC-533 1/4U

ARM-R-CLAD  
®  
**CE** GLASS  
SAFETY TEMPERED  
ANSI Z97.1-1975 1070  
SGCC 410 CDA

**ARTISTIC GLASS PRODUCTS COMPANY**  
P. O. Box 38  
Quakertown, Pennsylvania 18951

**CAL-TEMP; CALIFORNIA GLASS DISTRIBUTORS**  
9010 South Norwalk Boulevard  
Santa Fe Springs, California 90670

AGP 1-4 L  
ANSI-Z97.1 1975  
SGCC 585

Tentative label  
ANSI Z97.1-1975  
SGCC-637 3/16U

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

**CANADIAN PITTSBURGH INDUSTRIES, LTD.**  
1299 20th Street, East  
Owen Sound, Ontario, Canada

Tentative label  
ANSI Z97.1-1975  
SGCC-251 1/8U

**DOWNEY GLASS COMPANY**  
5631 Ferguson Drive  
Los Angeles, California 90022

Tentative label  
ANSI Z97.1-1975  
SGCC-514 1/4U

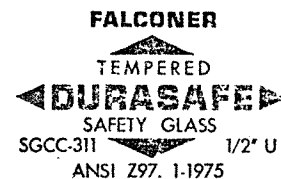
**CENTRAL GLASS COMPANY, LTD.**  
One World Trade Center  
Suite 3947  
New York, New York 10048

**POLISHED WIRED GLASS**



**CENTRAL GLASS CO., LTD**  
Wired Safety Glass  
ANSI Z97.1-1975 1/4U  
SGCC-624

**FALCONER PLATE GLASS CORPORATION**  
500 South Work Street  
Falconer, New York 14733



**CHROMALLOY-SAFETEE GLASS DIVISION**  
250 King Manor Drive  
King of Prussia, Pennsylvania 19406



**FEATHER-LITE MANUFACTURING COMPANY**  
1210 East Maple Road  
Troy, Michigan 48084

**FEATHER-LITE**  
**SAFETY**  
**PANE**  
TEMPERED SAFETY GLASS  
ANSI Z 97.1-1975  
SGCC-586 1/8 U 126

**DOULTON TEMPERED GLASS, LTD.**  
Ripley Road  
Bradford, West Yorkshire BD47TP  
England

Tentative label  
ANSI Z97.1-1975  
SGCC-601 1/4U

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

**Warp's**  
FLEX - O - GLAZE TM  
SGCC - 118  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1 - 1975 .100 U  
WARP BROS. CHGO. 60651

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

**FORD MOTOR COMPANY  
GLASS DIVISION**  
1 Parklane Boulevard  
Dearborn, Michigan 48126



FORD TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1975  
SGCC 341 1/8 U  
6E

**GLOBE-AMERADA GLASS COMPANY**  
2001 Greenleaf Avenue  
Elk Grove Village, Illinois 60007

LAMINATED SAFETY GLASS

SGCC-445 

G
A
G
C

 7/32 U

ANSI Z97.1.1975

**FOURCO GLASS COMPANY**  
P. O. Box 4147; Station B  
Fort Smith, Arkansas 72901



HEAT TEMPERED  
GLASS 1/8 U  
ANSI Z97.1-1975  
SGCC-297

**GUARDIAN INDUSTRIES CORPORATION**  
43043 West Nine Mile Road  
Northville, Michigan 48167

Tentative label  
ANSI Z97.1-1975  
SGCC-160 3/8U

**GENERAL ELECTRIC COMPANY**  
One Plastics Avenue  
Pittsfield, Massachusetts 01201

Tentative label  
ANSI Z97.1-1975  
SGCC-655 0.125U

**HAMILTON OF INDIANA, INC.**  
2000 Chestnut Street  
Vincennes, Indiana 47591

TEMPER-TUF  
HAMILTON OF INDIANA  
ANSI Z97.1-1975 1/8U SGCC-54  
TEMPERED SAFETY GLASS

**GENERAL GLASS IMPORTS CORPORATION**  
270 North Avenue  
New Rochelle, New York 10801

Tentative label  
ANSI Z97.1-1975  
SGCC-590 3/16U

**ICP INDUSTRIES, INC.**  
7411 N. E. Third Avenue  
Miami, Florida 33138

Tentative label  
ANSI Z97.1-1975  
SGCC-17 090U

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

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

MANCHESTER PRODUCTS COMPANY  
8966 Mason Avenue  
Chatsworth, California 91311

ANSI Z97.1-1975  
080U SGCC 573

Tentative label  
ANSI Z97.1-1975  
SGCC-567 0.100U

LOF GLASS, INC.  
P. O. Box 830  
Laurinburg, North Carolina 28352

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



TEMPERED SAFETY GLASS  
MINEX  
ANSI Z97.1 - 1975  
SGCC - 140 .210 U

LAMINATED GLASS CORPORATION  
9797 Erwin Avenue  
Detroit, Michigan 48213

MITSUBISHI RAYON COMPANY, LIMITED  
c/o Sentinel Enterprises  
2138 Biscayne Boulevard  
Miami, Florida 33137



Tentative label  
ANSI Z97.1-1975  
SGCC-496 0.080U

LIBBEY-OWENS-FORD COMPANY  
811 Madison Avenue  
Toledo, Ohio 43695

NORTHWESTERN INDUSTRIES, INC.  
2501 West Commodore Way  
Seattle, Washington 98199



TEMPERED  
SAFETY GLASS  
  
ANSI Z97.1-1975  
CGSB-12-GP-1  
SGCC-479  
5/16-U

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

**OHIO PLATE GLASS COMPANY**  
P. O. Box 671  
Lewisburg, Ohio 45338

SAFETY  
TEMPERED  
1/8"-U SGCC  
187  
OHIO  
PLATE  
ANSI Z-97.1-1975

**ROHM AND HAAS COMPANY**  
Independence Mall West  
Philadelphia, Pennsylvania 19105

Tentative label  
ANSI Z97.1-1975  
SGCC-154 .080U

**PPG INDUSTRIES, INC.**  
1000 RIDC Plaza  
P. O. Box 2811  
Pittsburgh, Pennsylvania 15230

**ppg** HERCULITE K  
ANSI Z-97.1-1975 1/8"-U  
TEMPERED SAFETY GLASS  
SGCC-295 15976


**ROTUBA EXTRUDERS, INC.**  
1401 Park Avenue South  
Linden, New Jersey 07036

ROTUBAGLAZ®  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1975  
SGCC-316 .080U

**PLASKOLITE, INC.**  
1770 Joyce Avenue  
Columbus, Ohio 43219

plaskolite  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1975  
SGCC-152 .100U

**SAFELITE INDUSTRIES**  
P. O. Box 1879  
Wichita, Kansas 67201

SOLID TEMPERED  
SAFE LITE  
  
ANSI Z97.1-1975  
1/32 SGCC 225

**ROBEKO PRODUCTS, INC.**  
99 Park Avenue  
New York, New York 10016

ACRYPOLY  
CAST ACRYLIC  
SAFETY GLAZING  
ANSI Z97.1-1975  
SGCC-210 080 U

**SHEFFIELD PLASTICS, INC.**  
Salisbury Road  
Sheffield, Massachusetts 01257

ACRY-PANE  
ACRYLIC SAFETY GLAZING  
ANSI Z 97.1-1975  
SGCC-173 .080U

EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

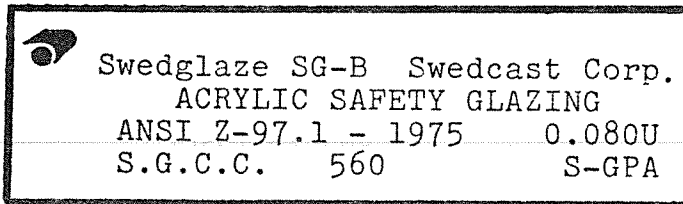
**SUN VALLEY TEMPERED GLASS COMPANY**  
906 Factory Lane  
Oxnard, California 93032

Tentative label  
ANSI Z97.1-1975  
SGCC-642 3/16U

**TEMPGLASS, INC.**  
Willis Day Industrial Park  
291 "M" Street  
Perrysburg, Ohio 43551

**TEMPGLASS®**  
ANSI Z97.1-1975  
SGCC 592 3/16"-U

**SWEDCAST CORPORATION**  
7350 Empire Drive  
Florence, Kentucky 41042



**TEMP-SAFE, INC.**  
3000 South Kelly  
Edmond, Oklahoma 73034

TEMP-SAFE  
TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1975  
SGCC-440-3/16 U

**TAYLOR PRODUCTS, INC.**  
Laura Avenue  
Payne, Ohio 45880

Tentative label  
ANSI Z97.1-1975  
SGCC-190 3/16U

**TEXAS TEMPERED GLASS COMPANY**  
1331 West Belt Drive  
Houston, Texas 77043

Tentative label  
ANSI Z97.1-1975  
SGCC-110 0.187U

**TEMPERED GLASS CORPORATION**  
6900 Adamo Drive  
Tampa, Florida 33619

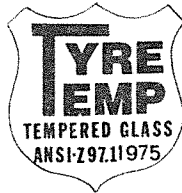
**TEMPERED  
GLASS CORP.**  
SGCC-337 .250U  
ANSI Z97.1 1975

**TUF-FLEX GLASS, INC.**  
2735 Washington Avenue  
Vincennes, Indiana 47591

Tuf-flex Glass Inc.  
TEMPERED SAFETY GLASS  
1/4"-U ANSI Z97.1-1975  
SGCC 229

# EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

**TYRE BROTHERS GLASS COMPANY**  
3008 South San Pedro Street  
Los Angeles, California 90051



SGCC-253 .250U

**VIRACON, INC.**  
800 Park Drive  
Owatonna, Minnesota 55060

**VIRACON**  
TEMPERED GLASS  
ANSI Z97.1-1975  
SGCC-227 188-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 Z 97.1-1.975

**VIRGINIA GLASS PRODUCTS CORPORATION**  
P. O. Box 5431  
Martinsville, Virginia 24112



**VIDRIOS SECURIT S.A.**  
A.A. 437  
Barranquilla, Colombia



TEMPERED SGCC-576  
7/ 32 U ANSI Z 97.1-1975

**VISADOR COMPANY**  
940 Visador Road  
Jasper, Texas 75951

Safe-T-Leaded  
ANSI Z97.1 - 1975  
SGCC 509 1/8 L  
VISADOR





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*.

After receipt of *all* of the above 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 inches 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 Glazing Material* from the participant's 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 by 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 \$250 per man day *plus* the reasonable costs of travel and the maintenance entailed in resolving such incidents. Refunds of part or all of the surety deposit will be made when applicable. All costs involved will be paid from the complainant's surety deposit, *unless* the investigation proves non-compliance, *in which case all costs will be borne by the 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 a January 1 to July 1 and July 1 to January 1 basis.

*Program Costs:*

\$485.00 per six months for the first product at a plant.

\$130.00 per six months for each additional product at the same plant.

CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS

*Licensee 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 or 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 date of expiration that cancellation is requested or unless revoked by SGCC for causes set forth in the document.

Upon proper execution and acceptance by SGCC the *Preissued Certification Number Bond* informs a participant of the exact mark of an item to be certified in the future. Thus he can purchase the proper marking equipment before the item is actually certified. If the participant marks this number upon production prior to actual certification the bond is forfeited to SGCC.

Upon proper execution and acceptance by SGCC the *Test Release Bond* permits the continuation of certification of an item even though the production facilities are shut down. If the participant does not notify SGCC within one week of the resumption of production the bond is forfeited to SGCC.

*Administrative Service Agreement.*

This agreement, entered into by SGCC and 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 (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

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

SGCC Board of Directors  
Richard L. Morrison, Chairman  
Ford Motor Company  
Glass Division; 9th Floor  
Parklane Towers East  
One Parklane Boulevard  
Dearborn, Michigan 48126  
Telephone (313) 322-1385

SGCC Certification Committee  
Gene Gilbert, Chairman  
Ohio Plate Glass Company  
P. O. Box 671  
Lewisburg, Ohio 45338  
Telephone (513) 962-2696

SGCC  
Robert A. Nance, P.E.  
Administrative Manager  
1640 West 32 Place  
Hialeah, Florida 33012  
Telephone (305) 558-1352

SGCC  
Ms. Shirley Stafford  
Assistant Secretary  
1640 West 32 Place  
Hialeah, Florida 33012  
Telephone (305) 558-1352

\* \* \* \*

*SGCC APPROVED TESTING LABORATORIES*

Approved Engineering Test Laboratories  
1536 East Valencia Drive  
Fullerton, California 92631  
Attention: Mr. Richard Short  
Telephone (714) 879-6110

Miami Testing Laboratory, Inc.  
1640 West 32 Place  
Hialeah, Florida 33012  
Attention: Mr. James W. Bailey  
Telephone (305) 822-1141

Bowser-Morner Testing Laboratories, Inc.  
420 Davis Avenue; Box 51  
Dayton, Ohio 45401  
Attention: Mr. Jack Delaney  
Telephone (513) 253-8805

Patzig Testing Laboratories, Inc.  
3922 Delaware Avenue  
Des Moines, Iowa 50313  
Attention: Mr. Byron A. Marks  
Telephone (515) 266-5101

Electrical Testing Laboratories, Inc.  
2 East End Avenue  
New York, New York 10021  
Attention: Mr. Claude Robb  
Telephone (212) 288-2600

Southwestern Laboratories  
2900 Cullen Street  
Fort Worth, Texas 76101  
Attention: Mr. Wayne Tessener  
Telephone (817) 332-5181

Electrical Testing Laboratories, Inc.  
1960 Will Ross Court  
Chamblee, Georgia 30341  
Attention: Mr. Harry Fry  
Telephone (404) 458-7763

Twin City Testing and  
Engineering Laboratory, Inc.  
662 Cromwell Avenue  
St. Paul, Minnesota 55114  
Attention: Mr. Ward Blandin  
Telephone (612) 645-3601

\* \* \* \*



## CERTIFICATION GUIDELINES AND INTERPRETATIONS

For guidance in certifying safety glazing materials the SGCC Certification Committee has adopted the following:

### GENERAL

#### G.1

Participation in the certification program will be on a January 1 to July 1 and July 1 to January 1 basis. Charges will be prorated to the nearest whole month based on the date of approval of certification.

#### G.2

Tests for initial compliance of safety glazing materials to ANSI Z97.1-1975 will be accepted from any testing laboratory approved by the SGCC certification committee.

#### G.3

Paragraph (1) Section 4.1.3 of ANSI Z97.1-1975 is intended to apply to laminated, wired and organic coated glass only. Paragraph (2) is intended to apply to tempered glass only. Paragraph (3) is intended to apply to plastics only. Paragraph (4) is intended to apply to any safety glazing material.

#### G.4

A safety insulating unit can be certified per se, or each layer of safety glazing material can be a certified item.

#### G.5

The SGCC item number when used as part of a permanent label designates the name of the licensee (participant) and also the location of the manufacturing plant since the Certified Products Directory which lists the item number and pertinent data is published twice a year.

#### G.6

a) All test specimens except for prototype samples, must be marked with the correct SGCC permanent label prior to testing in order to be considered a valid sample. The administrator shall construe the absence of a correct permanent label as a failure to comply with the Specifications. In such cases of noncompliance, Sections a, c, and e of G.11 shall be followed.

b) The laboratory shall verify that the label has the correct SGCC number, designation of the ANSI standard, nominal thickness, and certified size designation (U or L).

c) The testing laboratory is to advise the administrator of any specimen that does not in fact bear the correct SGCC permanent label and will be instructed by the administrator not to test but hold the sample.

d) The administrator will inform the participant of the situation and direct (by letter) the testing laboratory to commence testing no later than 30 days hence. Until that time the testing laboratory is instructed to make these specimens available to the participant at their convenience (the specimens are to remain at the testing laboratory) in order that the participant may point out or show them that in fact the SGCC permanent label is correct or agree that in fact the correct SGCC permanent label is not present. (In cases of any dispute between the participant and the testing laboratory the decision of the administrator shall be final). The participant shall not mark specimens after receipt at the testing laboratory.

#### G.7

Safety glazing materials for which certification is requested for indoor use only shall be subjected to the provisions of section 4.1 (impact tests) and 4.5 (aging tests) of ANSI Z97.1-1975 irrespective of the composition or construction of the glazing material. Like products and materials produced in the same manner as samples submitted for test shall be legibly and permanently marked in one corner with the words "Indoor Use Only" and the SGCC identification number.

#### G.8

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 Z97.1-1975 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:

a) The participant be permitted 6 weeks in which to effect delivery of said specimens to the administrator's designated testing laboratory.

b) Failure to act as specified above shall be construed by the administrator as failure of the said specimens to comply with the Specifications and the administrator shall act as provided for in License Agreement A.6.

#### G.11

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

a) Written notice shall be sent to the participant by the administrator that within 30 days the participant must submit a retest sample to the testing laboratory designated by the administrator.

Certification shall be removed if the sample is not received within the allotted 30 days or if the sample submitted fails to comply with the Specifications.

b) Within 3 months the administrator shall obtain an additional random sample for evaluation (in addition to the routine evaluation sample obtained twice a year.) The administrator shall be certain that this additional sample is of recent production.

c) At the option of the administrator, specimens submitted under (a) above shall be either prototype size and pattern or identical to those previously sampled and of recent production.

d) Certification shall be removed if the additional random sample obtained in (b) above fails to comply with the Specifications.

e) All costs related to G.11 are to be borne by the participant.

#### 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.11, he should notify the administrator. The administrator will then contact the Chairman of the Certification Committee for a decision as to what action is to be taken.

#### G.13

In cases where a certified item is produced infrequently or in small quantities so as to make it difficult for the administrator to obtain routine evaluation samples, the 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 nominal thickness designations in SGCC authorized permanent labels for safety glazing materials may be shown in metric units. The thickness will be expressed in millimeters, limited to two decimal places, and will have the suffix "mm".

#### G.17

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

#### G.18

Certified and permanently labeled safety glazing materials such as laminated glass, wired glass, rigid plastic or organic coated glass may be

cut into smaller pieces by a distributor or installer after manufacture and it is not practical for each such smaller piece to bear a 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.

#### G.19

The semi-annual invoicing date for certification fees shall be April 1 and October 1 of each year and the administrator is instructed to take those steps necessary to remove certification from participants for failure of payment prior to closing date of the certified products directory.

#### G.20

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

#### G.21

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

#### G.22

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

a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.

b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1975 for each alternate pattern proposed.

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

After admission under blanket certification covering patterned products, any such patterns available may be selected by the administrator for routine sampling and testing.

In the case where a routine evaluation sample covered under a blanket certification fails to comply with the specifications, the situation requires that that particular product be submitted for the retest sample required by Guideline G.11a and also that that particular product be sampled by the administrator for the additional sample required by Guideline G.11b.

#### G.23

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

a) Prior to or within 2 weeks, after the shutdown the participant shall inform the SGCC administrator by registered mail.

b) The SGCC administrator will immediately supply the participant with test release bond forms for submission by the participant.

c) Within 2 weeks after receipt of the bond forms, the participant shall submit them to the SGCC administrator. A separate bond shall be submitted for each certified product affected.

d) During the period covered by the bond the participant shall retain certification, contingent upon payment of normal certification fees and meeting all other participant obligations. Bonds will terminate 90 days

after application but may be renewed by the participant any number of times. Renewal is an obligation of the participant and requires all steps listed herein.

e) Within one week after re-activation of the production facility the participant shall 1) notify the SGCC administrator by registered mail and 2) submit samples from the first weeks production to an SGCC approved laboratory for testing. In cases where more than one certified product is produced with the same equipment samples of each must be furnished for testing within the first month. These will be considered as the routine samples for retesting for the six months period during which they are submitted.

f) Failure by the participant to comply with any of the preceding shall be the basis for removal of certification from the affected products.

#### G.24

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

#### G.25

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

#### G.26

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

#### G.27

When the ownership of a manufacturing plant changes, SGCC will require a new license agreement, new prototype test reports and issue new SGCC numbers for those products that the new owner may wish to certify (See 10.1.75.2). For all plastics requiring weathering tests, an infrared spectrogram shall be obtained. This spectrogram shall be compared with preceding owners material. If this spectrogram shows no difference in the material and the owner certifies that no change in composition or process is being made, then the requirements of weathering test for the new product shall be waived.

#### G.28

The administrator shall construe noncompliance with thickness tolerances as a failure to comply with the Specifications. In such cases of non-compliance, Sections a, c, and e of G.11 shall be followed.

## 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. Glasses of the same nominal thickness with a ceramic material applied as a continuous or partial coating to one or more surfaces prior to tempering are also covered.

### T.4

In cases where certified tempered 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.

#### 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 Specifications 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.

#### T.6

For certification purposes the nominal thickness of 32 ounce tempered transparent glass shall be 4 mm and thickness tolerance shall be 3.8 mm (0.150 inches) minimum and 4.2 mm (0.165 inches) maximum.

#### T.7

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

### TEMPERED PATTERN GLASS

#### TP.1

For purposes of certification, the nominal thicknesses of patterned, figured, or rough rolled glass are the common fractions found in DD-G-451c which describes the maximum thickness. The permanent label must contain this fraction or a metric or decimal dimension within the tolerance of this thickness as published in DD-G-451c.

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

<i>Pattern depth class</i>	<i>Ratio</i>
Shallow pattern glass	0.90 or above
Medium pattern glass	0.80 to 0.89
Deep pattern glass	0.79 or below

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

New or unlisted patterns must be submitted to the pattern subcommittee for classification and file, prior to certification. After measurement, the new pattern will be assigned to a pattern depth class. If the participant has a certified product in that thickness and class, the new pattern may, at the request of the participant, be included under the same SGCC certification number.

#### TP.2

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

#### TP.3

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 Z97.1-1975 test purposes.

### LAMINATED GLASS

#### L.1

Certification of regular laminated glass will also cover tinted, heat absorbing and coated glasses, both flat and bent of the same nominal thickness.

#### 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 vice versa.

#### L.4

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

#### L.5

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

#### L.6

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

### WIRED GLASS

#### W.1

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

- The glass thickness of the candidate glass is nominally equal to the thickness of the glass that is certified.
- The wire diameter of 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 ANSI Z97.1-1975 impact testing has been made.

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

### PLASTICS — GENERAL

#### P.1

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

#### P.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

The following thickness tolerances shall be used for certification purposes:

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

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

Outdoor use plastic materials Class 3. As specified in Federal Specification P-46144, latest issue.

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

#### P.4

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

**P.5**

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

**PLASTICS – EXTERIOR USE**

**PE.1**

Sheet plastics for exterior use must comply with paragraph 4.3 of the ANSI Z97.1-1975. (UV Weathering).

**PE.2**

Certification of plastics for exterior use shall be permitted prior to completion of ANSI Z97.1-1975. Weathering Tests (paragraph 4.3) provided that a considered expert opinion states that the infrared spectrogram indicates that the plastic is an acrylic or UV inhibited polycarbonate of proven weatherability. Certification shall be removed if compliance with the weathering test is not demonstrated within six months of the certification date.

**PE.3**

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

**PE.4**

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

**PLASTICS – INDOOR USE ONLY**

**PI.1**

Sheet plastics used in indoor applications only, do not have to comply with paragraph 4.3 of ANSI Z97.1-1975 (UV Weathering) but must comply with paragraph 4.5.

**PI.2**

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

**LEADED PATTERNED ANNEALED GLASS**

**LG.1**

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

a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.

b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1975 for each alternate pattern proposed.

c) The certification committee is provided with a 6 by 6 inch sample of

each proposed alternate for its record and file. This must be sent to the administrator of the certification program.

d) After admission under blanket certification covering leaded patterned annealed glass, any such patterns available may be selected by the administrator for routine testing.

**LG.2**

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

a) All aspects of the product except diamond size is the same as the certified product.

b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1 - 1975 for each alternate size diamond proposed.

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

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

**LG.3**

For leaded diamond patterned annealed glass the tolerance for diagonal came center dimensions shall be plus or minus 10 percent.

Prototype sample must have diagonal came center dimensions at the upper limit of the dimensional tolerance. Diamond size listed in the certified products directory shall be nominal dimensions.

Prototype diamond dimension equals 1.10 times nominal diamond dimension.

**ORGANIC COATED GLASS**

**AG.1**

Thickness of the applied plastic coating shall be measured by the SGCC standard method.

**AG.2**

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

**AG.3**

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

\* \* \* \* \*

\* \* \* \* \*

**ANSI Z97.1-1975 Safety Performance Specifications and Methods of Test  
for Safety Glazing Material Used in Buildings**

The purpose of Z97.1-1975 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 Z97.1-1975  
may be  
obtained at \$4.00  
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 Z97.1-1975.

Name \_\_\_\_\_

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

Street \_\_\_\_\_

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



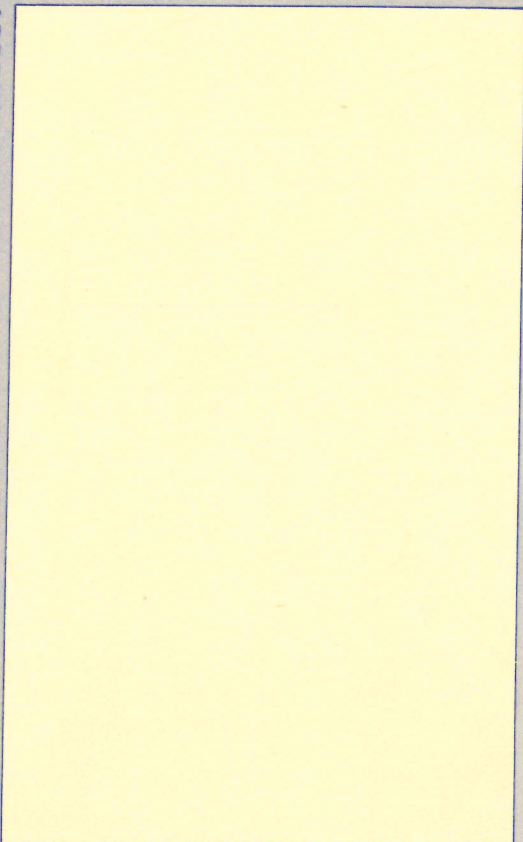


safety glazing certification council

1640 west 32 place  
hialeah, florida 33012

future editions of this certified products directory  
will be sent to individuals making a request on their  
corporate letterhead.

to



ADDRESS CORRECTION REQUESTED

**THIRD CLASS MAIL**

BULK RATE  
U.S. POSTAGE  
PAID  
HIALEAH, FLA.  
Permit No. 69