

JANUARY 1, 1985



safety glazing certification council

certified products directory  
safety glazing material used in buildings

## TABLE OF CONTENTS

Meetings this year.....	page 4
Roster.....	page 5
Board of Directors.....	page 6
Pattern Glass Classification.....	page 7
Program Concept.....	page 9 (ANSI)
Certified Products (Numerically).....	page 10 (ANSI)
Certified Products (By Plant).....	page 12 (ANSI)
Certified Products (By Product).....	page 21 (ANSI)
SGCC Label Requirements.....	page 28 (ANSI)
Licensees and their typical labels.....	page 29 (ANSI)
SGCC Approved Laboratories.....	page 36 (ANSI)
Procedural Guide.....	page 37 (ANSI)
Guidelines for Certification.....	page 42 (ANSI)
ANSI Z97.1-1984.....	page 52 (ANSI)
January 1, 1985 Update.....	page 53 (ANSI)
*****	
Program Concept.....	page 55 (CPSC)
Certified Products (Numerically).....	page 56 (CPSC)
Certified Products (By Plant).....	page 58 (CPSC)
Certified Products (By Product).....	page 65 (CPSC)
SGCC Label Requirements.....	page 71 (CPSC)
Licensees and their typical labels.....	page 72 (CPSC)
SGCC Approved Laboratories.....	page 78 (CPSC)
Procedural Guide.....	page 79 (CPSC)
Guidelines for Certification.....	page 84 (CPSC)
16 CFR 1201.....	page 93 (CPSC)
January 1, 1985 Update.....	page 94 (CPSC)

© Safety Glazing Certification Council, 1985

JANUARY 1, 1985; SGCC 3

### MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Safety Glazing Certification Council met on April 10 and October 16, 1984. 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, 1985; 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 questions or comments should be directed to:

Mr. Robert A. Nance, P. E.  
Administrative Manager  
Safety Glazing Certification Council  
1640 West 32 Place  
Hialeah, Florida 33012

Telephone 305-558-1352

\* \* \* \* \*

# ROSTER

October 1984

## SGCC BOARD OF DIRECTORS

Representing Public Interest  
Mario Cellarosi, NBS  
Mrs. Jean Cornwell, Consumer  
Phil Dykstra, Consumer  
George L. Graf, Jr., Consumer  
Mrs. Sylvia Lav, Consumer  
Joseph E. Minor, Texas Tech University

Representing Industry  
Robert L. Brown, Virginia Glass Products Corporation  
Tom Coyne, Southern Wholesale Glass, Inc.  
Hugh France, Texas Tempered Glass Company  
Henry Gorry, Guardian Industries Corp.  
Robert P. Randall, Traco  
Paul Toltz, General Glass Corporation  
Honorary Non-voting Member:  
Norman Nitschke, Glasstech, Inc.

## SGCC Officers

Richard L. Morrison, President  
Tom Coyne, First Vice President  
George L. Graf, Jr., Second Vice President  
Joseph E. Minor, Secretary  
William C. Cooke, Treasurer

## SGCC CERTIFICATION COMMITTEE

Robert A. Moss, Chairman

Henry A. Gorry, Vice-Chairman

### Licensee

AFG Industries, Inc.  
Advanced Coating Technology, Inc.  
Ardco, Inc.  
J. E. Berkowitz, Inc.  
Chamberlain Manufacturing Corporation

### Primary Member

William C. Cooke  
Paul Gripshover  
Andrew G. Menke  
Robert Litzinger  
Howard R. Turner

### First Alternate

Billie G. Nichols  
James W. Seeser  
Edwin J. Berkowitz  
Bob Gentry

### Second Alternate

Thomas C. Carson  
William Watson

Downey Glass Company, Inc.  
Dlubak Studios, Inc.  
Elgin Precision Glass Company, Inc.  
Falconer-Lewistown, Inc.  
Falconer Glass Industries, Inc.

Jim Pinsky  
Frank C. Dlubak  
Gene W. Rutkowski  
Richard E. Turner, Jr.  
Richard E. Turner

### Bernard Puttler

Thom E. Davies  
Rob Jaynes  
David J. Herz  
Leigh T. Yates

### Ned Skoog

Joseph D. Pinsky  
Richard P. Joyce  
Dan Cuklerski  
Mark Hill  
Richard Stout

Flex-O-Glass, Inc.  
Ford Motor Company  
Fulton Glass Industries, Inc.  
General Glass Corporation  
Glass Tempering Service, Inc.

Harold G. Warp  
Richard L. Morrison  
Paul F. Tumey  
Paul Toltz  
Virgil S. Taylor

### Delbert Christensen

C. D. Goodman  
David Farley  
Randy Toltz

### Howard Bienenfeld

Glasstemp, Inc.  
Guardian Industries Corp.  
Hamilton Glass Products, Inc.  
Lear Siegler, Inc.  
Libbey-Owens-Ford Company

Steve Lacey  
Henry A. Gorry  
Robert A. Moss  
Gary Harris  
Anthony R. Shaw

Jim Johnsen  
R. L. Alonzo  
Gary L. Tate  
Robert Avers  
Mark S. Suffron

### Lannie Cunningham

### Ronald Purdue

Northwestern Industries, Inc.  
Ohio Plate Glass Company  
PPG Industries, Inc.  
PPG Industries Canada, Ltd.  
Rotuba Extruders, Inc.

Stan Saulnier  
Gene Gilbert  
Richard T. McGuire  
D. A. Clarke  
Albert M. Bell

Rick Nelson  
John Barr  
Charles R. Sutermeister  
W. C. Clananahan  
Eugene E. Drood

John M. Schlueter  
Richard T. McGuire

Sheffield Plastics, Inc.  
Southern Wholesale Glass, Inc.  
Sunglas Products, Inc.  
Tempered Glass Corporation  
Tempglass, Inc.

Thomas Kradel  
Tom Coyne  
Richard L. Morrison  
Paul F. Tumey  
Irvin D. Fintel

Bernard W. Brooks  
Douglas A. Long  
Bart Jones  
Robert L. Nader

### Freddie Michael

### Howard Bienenfeld

Tempglass Eastern, Inc.  
Temp-Tech Industries, Inc.  
Texas Tempered Glass Company  
Traco  
Virginia Glass Products Corporation

John C. Mulvanerty  
Bart Semeraro  
Hugh France  
Robert P. Randall  
Robert L. Brown

Robert D. Lauter  
John Kalakos  
Brooks R. Leavitt

### A. P. Stillman

Virginia Mirror Company, Inc.

W. C. Beeler, Jr.

Robert L. Brown

## Member by virtue of being a director:

National Bureau of Standards  
Consumer  
Consumer  
Consumer  
Consumer  
Texas Tech University  
Glasstech, Inc.

Mario Cellarosi  
Mrs. Jean Cornwell  
Phil Dykstra  
George L. Graf, Jr.  
Mrs. Sylvia Lav  
Joseph E. Minor  
Norman Nitschke

## Members from those without certified products:

Deposition Technology, Inc.

Martin I. Cohen

## Legal Counsel:

Samuel Steen, Esquire

## Auditor:

McClain and Company

## Administrative Manager:

Robert A. Nance, P. E.

## Administrative Staff:

Andy Nance  
Shirley Nelson

## SGCC BOARD OF DIRECTORS

### Representing Public Interest

Mr. Mario J. Cellarosi  
National Bureau of Standards  
Materials Building; Room B-322  
Washington, D. C. 20234  
Telephone 301-921-2817

Mrs. Jean Cornwell  
225 Swan Lake Road  
Stockbridge, Georgia 30281  
Telephone 404-474-4278

Mr. Phil Dykstra  
1904 Myrtle Beach Way  
Ocala, Florida 32672  
Telephone 904-694-3378

Dr. George L. Graf, Jr.  
2642 Longwood Drive  
Wilmington, Delaware 19810  
Telephone 302-475-3723

Mrs. Sylvia Lav  
c/o R. Hamamoto -#419  
8600 Tuscany  
Playa Del Rey, California 70291

Dr. Joseph E. Minor, P. E.  
Institute for Disaster Research  
Texas Tech University  
P. O. Box 4089  
Lubbock, Texas 79409  
Telephone 806-742-3476

### Representing Industry

Mr. Robert L. Brown  
Virginia Glass Products Corporation  
P. O. Box 5431  
Martinsville, Virginia 24115  
Telephone 703-956-3131

Mr. Tom Coyne  
Southern Wholesale Glass, Inc.  
3200 Austell Road  
Marietta, Georgia 30060  
Telephone 404-434-2041

Mr. Hugh France  
Texas Tempered Glass Company  
1331 W. Belt Drive North; P. O. 79306  
Houston, Texas 77279  
Telephone 713-464-5611

Mr. Henry A. Gorry  
Guardian Industries Corp.  
43043 West Nine Mile Road  
Northville, Michigan 48167  
Telephone 313-349-6700

Mr. Robert P. Randall  
Traco (Three Rivers Aluminum Company)  
P. O. Box 805  
Warrendale, Pennsylvania 15095  
Telephone 412-776-7000

Mr. Paul Toltz  
General Glass Corporation  
P. O. Box 38711  
Denver, Colorado 80238  
Telephone 303-371-5511

Honorary Non-Voting  
Life Time Member  
Mr. Norman Nitschke  
Glasstech, Inc.  
Ampoint Industrial Park  
995 Fourth Street  
Perrysburg, Ohio 43551  
Telephone 419-661-9500

# CLASSIFIED TEMPERED GLASS PATTERNS

## 1/8 inch shallow

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

## 1/8 inch medium

(04) Rattan	(05) Cotswold	(06) Patchwork	(07) Burlap	(08) Smooth Rough
(11) Flemish	(31) Skytex	(33) Seashell	(35) Flax	(52) Pattern 73
(56) Syenite	(57) Pattern 229	(154) Rain	(160) Model 10	(163) Model 11
(164) Model 12				

## 1/8 inch deep

(10) Autumn

## 5/32 inch shallow

(59) Luxlite	(60) Factrolite	(64) Spraylite	(70) Muralux	(72) Velvex
(74) Ribbed	(75) Aquatex	(76) Finetex	(81) Pattern 6	(88) Pattern 100
(118) Solatex	(121) Sunadex	(123) P-516	(124) Heliolite	(126) Pattern 62
(127) Mistron Ace	(128) Showerlite	(148) Solatex I	(151) Solatex II	(153) Flax
(156) Clar 104	(157) Model 10	(158) Pontilhado	(161) Model 11	(162) Model 12

## 5/32 inch medium

(61) Cotswold	(62) Burlap	(63) Smooth Rough	(66) Flemish	(69) Skytex
(71) Seashell	(73) Flax	(77) Pattern 73	(78) Syenite	(79) Pattern 229
(80) Pattern 76	(130) Cathedral	(146) Pattern 28	(155) Rain	

## 5/32 inch deep

(65) Autumn	(67) Oceanic	(68) Roundel
-------------	--------------	--------------

## 3/16 inch shallow

(50) Pattern 62	(51) P-516	(54) Showerlite	(116) Heliolite	(119) Solatex
(122) Sunadex	(125) Spraylite	(131) Industrex	(132) Velvex	(133) Aquatex
(134) Pattern 100	(135) Pattern 6	(136) Burlap	(137) Factrolite	(138) Satinlite
(139) Pluralite	(140) Flax	(141) Skytex	(142) Chinchilla	(149) Solatex I
(152) Solatex II	(159) Model 10			

## 3/16 inch medium

(58) Pattern 76	(143) Seashell	(144) Syenite	(145) Flemish
-----------------	----------------	---------------	---------------

## 3/16 inch deep

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

## 210 shallow

(89) Velvex	(90) Muralux	(91) Industrex	(92) Aquatex	(93) Pattern 100
(94) Pattern 6	(95) Pattern 62	(96) Spraylite	(97) Burlap	(98) Factrolite
(99) Satinlite	(100) Luxlite	(101) J-3	(102) P-516	(103) Smooth Rough
(105) Cascade	(106) Pluralite	(108) Flax	(110) Skytex	(115) Chinchilla

## 210 medium

(107) Seashell	(109) Beadex	(111) Syenite	(112) Flemish	(113) Textured Linex
----------------	--------------	---------------	---------------	----------------------

## 210 deep

(104) Lozenge	(114) Broadlite
---------------	-----------------

## 7/32 inch shallow

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

## 7/32 inch medium

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

## 7/32 inch deep

(29) Lozenge	(53) Broadlite
--------------	----------------



## 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) in 1971.

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 Z97.1-1984, 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 Z97.1-1984 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 operates an independent third party certification and testing program.

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 Z97.1-1984. 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 a 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 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.



# CERTIFIED PRODUCTS - NUMERICAL SEQUENCE

SGCC- 12 Virginia Glass	SGCC- 348 Tempered Glass	SGCC- 639 ACI Glass Products
SGCC- 14 Virginia Glass	SGCC- 350 LOF Glass	SGCC- 640 ACI Glass Products
SGCC- 19 LOF Glass	SGCC- 351 LOF Glass	SGCC- 641 ACI Glass Products
SGCC- 24 AFG Industries	SGCC- 352 LOF Glass	SGCC- 654 Ohio Plate Glass
SGCC- 28 AFG Industries	SGCC- 373 LOF Glass	SGCC- 662 Guardian Industries
SGCC- 40 Guardian Industries	SGCC- 374 LOF Glass	SGCC- 669 Texas Tempered
SGCC- 41 Guardian Industries	SGCC- 375 LOF Glass	SGCC- 675 PPG Industries
SGCC- 54 Hamilton Glass	SGCC- 382 PPG Industries	SGCC- 676 PPG Industries
SGCC- 57 Hamilton Glass	SGCC- 390 Flex-Temp	SGCC- 678 Downey Glass
SGCC- 60 PPG Industries	SGCC- 391 Flex-Temp	SGCC- 709 Falconer Glass
SGCC- 61 PPG Industries	SGCC- 392 Flex-Temp	SGCC- 711 Falconer Glass
SGCC- 64 PPG Industries	SGCC- 396 Ford Motor Company	SGCC- 712 Falconer Glass
SGCC- 70 PPG Industries	SGCC- 397 Ford Motor Company	SGCC- 921 Flex-Temp
SGCC- 89 AFG Industries	SGCC- 400 PPG Industries	SGCC- 927 PPG Industries
SGCC- 90 AFG Industries	SGCC- 402 PPG Industries	SGCC- 933 Guardian Industries
SGCC- 93 Virginia Glass	SGCC- 449 LOF Glass	SGCC- 934 Guardian Industries
SGCC- 94 Virginia Glass	SGCC- 454 PPG Industries	SGCC- 935 Downey Glass
SGCC- 95 Virginia Glass	SGCC- 455 PPG Industries	SGCC- 949 AFG Industries
SGCC- 102 PPG Industries	SGCC- 458 Guardian Industries	SGCC- 952 PPG Industries
SGCC- 118 Flex-O-Glass	SGCC- 464 LOF Glass	SGCC- 955 AFG Industries
SGCC- 131 Guardian Industries	SGCC- 471 Guardian Industries	SGCC- 968 Guardian Industries
SGCC- 137 Texas Tempered	SGCC- 474 PPG Industries	SGCC- 969 Guardian Industries
SGCC- 141 AFG Industries	SGCC- 475 PPG Industries	SGCC- 970 Guardian Industries
SGCC- 150 LOF Glass	SGCC- 482 Tuf-flex Glass	SGCC- 971 Guardian Industries
SGCC- 151 LOF Glass	SGCC- 483 Tuf-flex Glass	SGCC- 979 Tempglass Eastern
SGCC- 160 Guardian Industries	SGCC- 487 Guardian Industries	SGCC- 981 Tempglass Eastern
SGCC- 173 Sheffield Plastics	SGCC- 514 Downey Glass	SGCC- 982 Tempglass Eastern
SGCC- 185 Ohio Plate Glass	SGCC- 515 Downey Glass	SGCC- 986 Temp-Tech
SGCC- 186 Ohio Plate Glass	SGCC- 516 Downey Glass	SGCC- 999 Anglass Industries
SGCC- 188 Ohio Plate Glass	SGCC- 520 Anglass Industries	SGCC-1000 Anglass Industries
SGCC- 194 PPG Industries	SGCC- 544 LOF Glass	SGCC-1002 Downey Glass
SGCC- 195 PPG Industries	SGCC- 545 LOF Glass	SGCC-1004 Guardian Industries
SGCC- 209 PPG Industries Canada	SGCC- 562 Ohio Plate Glass	SGCC-1034 Shaw Glass
SGCC- 219 PPG Industries	SGCC- 586 Chamberlain	SGCC-1035 Shaw Glass
SGCC- 220 AFG Industries	SGCC- 587 AFG Industries	SGCC-1036 Shaw Glass
SGCC- 249 PPG Industries	SGCC- 592 Tempglass	SGCC-1037 Shaw Glass
SGCC- 250 PPG Industries	SGCC- 593 Tempglass	SGCC-1039 Tempglass
SGCC- 251 PPG Industries Canada	SGCC- 594 Tempglass	SGCC-1041 Ardco
SGCC- 263 Guardian Industries	SGCC- 595 Tempglass	SGCC-1042 Ardco
SGCC- 295 PPG Industries	SGCC- 598 AFG Industries	SGCC-1044 Tempglass Southern
SGCC- 300 Guardian Industries	SGCC- 603 Downey Glass	SGCC-1045 Tempglass Southern
SGCC- 316 Rotuba Extruders	SGCC- 604 Downey Glass	SGCC-1046 Tempglass Southern
SGCC- 320 Tempered Glass, Inc.	SGCC- 605 Downey Glass	SGCC-1049 Ardco
SGCC- 321 Tempered Glass, Inc.	SGCC- 606 Downey Glass	SGCC-1050 Ohio Plate Glass
SGCC- 322 Tempered Glass, Inc.	SGCC- 607 Downey Glass	SGCC-1058 Tempglass Eastern
SGCC- 323 Tempered Glass, Inc.	SGCC- 608 Downey Glass	SGCC-1059 Tempglass Eastern
SGCC- 328 Ohio Plate Glass	SGCC- 609 Downey Glass	SGCC-1062 Hehr International
SGCC- 337 Tempered Glass	SGCC- 630 Downey Glass	SGCC-1067 PPG Industries
SGCC- 338 Tempered Glass	SGCC- 631 Guardian Industries	SGCC-1071 Shaw Glass
SGCC- 341 Ford Motor Company	SGCC- 633 Guardian Industries	SGCC-1073 Spectrum Glass
SGCC- 342 Ford Motor Company	SGCC- 638 ACI Glass Products	SGCC-1074 Spectrum Glass

# CERTIFIED PRODUCTS - NUMERICAL SEQUENCE

SGCC-1075 Spectrum Glass	SGCC-1250 Guardian Industries	SGCC-1341 Colonial
SGCC-1076 Spectrum Glass	SGCC-1251 Guardian Industries	SGCC-1342 Advanced Glass
SGCC-1077 Spectrum Glass	SGCC-1252 Guardian Industries	SGCC-1343 Lear Siegler
SGCC-1078 Spectrum Glass	SGCC-1253 Guardian Industries	SGCC-1344 Howe-Martz
SGCC-1079 Spectrum Glass	SGCC-1259 Tempglass Eastern	SGCC-1345 Accutemp Glass
SGCC-1107 PPG Industries	SGCC-1260 Advanced Glass	SGCC-1346 Asahi Glass
SGCC-1108 PPG Industries	SGCC-1265 Howe-Martz	SGCC-1347 Dlubak Studios
SGCC-1110 PPG Industries	SGCC-1266 Howe-Martz	SGCC-1348 Dlubak Studios
SGCC-1111 PPG Industries	SGCC-1268 Howe-Martz	SGCC-1349 Dlubak Studios
SGCC-1112 PPG Industries	SGCC-1269 Howe-Martz	SGCC-1350 Dlubak Studios
SGCC-1113 PPG Industries	SGCC-1270 Howe-Martz	SGCC-1352 Falconer Glass
SGCC-1118 Tempered Glass	SGCC-1275 Virginia Glass	SGCC-1355 Gateway Industries
SGCC-1120 PPG Industries Canada	SGCC-1277 Advanced Coating Tech.	SGCC-1356 Gateway Industries
SGCC-1123 Fulton Glass	SGCC-1280 Falconer Glass	SGCC-1357 Gateway Industries
SGCC-1124 Fulton Glass	SGCC-1281 Ohio Plate Glass	SGCC-1358 Gateway Industries
SGCC-1125 Fulton Glass	SGCC-1282 Falconer-Lewistown	SGCC-1359 Gateway Industries
SGCC-1126 Fulton Glass	SGCC-1284 Falconer-Lewistown	SGCC-1360 Lear Siegler
SGCC-1127 Fulton Glass	SGCC-1286 Ohio Plate Glass	SGCC-1361 Sunglas Products
SGCC-1139 AFG Industries	SGCC-1287 Ohio Plate Glass	SGCC-1362 Sunglas Products
SGCC-1143 AFG Industries	SGCC-1292 San Jacinto	SGCC-1363 Sunglas Products
SGCC-1157 ACI Glass Products	SGCC-1293 San Jacinto	SGCC-1369 Elgin Precision Glass
SGCC-1159 Texas Tempered	SGCC-1294 San Jacinto	SGCC-1370 Elgin Precision Glass
SGCC-1161 Guardian Industries	SGCC-1295 San Jacinto	SGCC-1371 Elgin Precision Glass
SGCC-1165 Colonial	SGCC-1296 San Jacinto	SGCC-1372 Elgin Precision Glass
SGCC-1166 Colonial	SGCC-1298 PPG Industries	SGCC-1374 Sunglas Products
SGCC-1167 Colonial	SGCC-1299 Shaw Glass	SGCC-1376 Chamberlain
SGCC-1173 Lear Siegler	SGCC-1301 Guardian Industries	SGCC-1377 Chamberlain
SGCC-1176 ACI Glass Products	SGCC-1303 Guardian Industries	SGCC-1378 Chamberlain
SGCC-1180 General Glass	SGCC-1304 Guardian Industries	SGCC-1379 Hordis Brothers
SGCC-1181 General Glass	SGCC-1308 Traco	SGCC-1380 Hordis Brothers
SGCC-1182 General Glass	SGCC-1310 Traco	SGCC-1381 Glasstemp
SGCC-1192 Texas Tempered	SGCC-1311 Traco	SGCC-1382 Glasstemp
SGCC-1200 Hamilton Glass	SGCC-1312 Traco	SGCC-1383 Glasstemp
SGCC-1201 Gemtron	SGCC-1313 Traco	SGCC-1384 Glasstemp
SGCC-1204 Tuf-flex Glass	SGCC-1314 Guardian Industries	SGCC-1385 Hamilton Glass
SGCC-1216 Guardian Industries	SGCC-1315 Falconer-Lewistown	SGCC-1386 Hamilton Glass
SGCC-1219 Tempglass Southern	SGCC-1316 Falconer-Lewistown	SGCC-1387 Hamilton Glass
SGCC-1221 PPG Industries	SGCC-1318 Guardian Industries	SGCC-1388 Ohio Plate Glass
SGCC-1224 Tuf-flex Glass	SGCC-1321 Flex-Temp	SGCC-1389 Glass Tempering Service
SGCC-1225 PPG Industries	SGCC-1323 Ardco	SGCC-1390 AFG Industries
SGCC-1226 ACI Glass Products	SGCC-1324 Falconer Glass	SGCC-1393 Saint Gobain
SGCC-1230 Southern Wholesale	SGCC-1325 PPG Industries	SGCC-1394 Gateway Industries
SGCC-1231 Southern Wholesale	SGCC-1326 Fulton Glass	SGCC-1395 Tempered Glass
SGCC-1232 Southern Wholesale	SGCC-1328 Tempered Glass	SGCC-1397 Empire Glass
SGCC-1235 Guardian Industries	SGCC-1330 Falconer Glass	SGCC-1398 Empire Glass
SGCC-1236 Virginia Glass	SGCC-1332 Gemtron	SGCC-1399 Empire Glass
SGCC-1238 Glass Tempering Service	SGCC-1334 Gemtron	SGCC-1400 Empire Glass
SGCC-1241 Tuf-flex Glass	SGCC-1336 PPG Industries	SGCC-1401 Empire Glass
SGCC-1247 PPG Industries Canada	SGCC-1338 Tempglass Eastern	SGCC-1402 Empire Glass
SGCC-1248 Guardian Industries	SGCC-1339 Falconer Glass	SGCC-1403 Viracon
SGCC-1249 Guardian Industries	SGCC-1340 Glass Tempering Service	SGCC-1404 Viracon

**CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**

**MAXIMUM CERTIFIED SIZE**

<b>ACI Glass Products, Inc.; Santa Fe Springs, California</b>				
SGCC-1176	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1157	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 638	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 639	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 640	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1226	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC- 641	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size
<b>AFG Industries, Inc.; Greenland, Tennessee</b>				
SGCC- 598	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 955	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 220	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 89	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 90	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 587	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1139	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
<b>AFG Industries, Inc.; Kingsport, Tennessee</b>				
SGCC-1390	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 949	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 28	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 24	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 141	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1143	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
<b>Accutemp Glass Company; San Antonio, Texas</b>				
SGCC-1345	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
<b>Advanced Coating Technology, Inc.; Franklin, Tennessee</b>				
SGCC-1277	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
<b>Advanced Glass Corporation; Renedo, Spain</b>				
SGCC-1342	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1260	5/32	inch (4.0 mm)	tempered pattern glass (m)	Unlimited size
<b>Anglass Industries, Inc.; San Fernando, California</b>				
SGCC- 520	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 999	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1000	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
<b>Ardco, Inc.; Chicago, Illinois</b>				
SGCC-1041	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1323	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1042	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1049	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
<b>Asahi Glass Company, Ltd.; Tokyo, Japan</b>				
SGCC-1346	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
<b>Chamberlain Manufacturing Corporation; Malvern, Arkansas</b>				
SGCC- 586	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1376	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1377	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1378	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**
**MAXIMUM CERTIFIED SIZE**

<b>Colonial Mirror and Glass Corporation; Brooklyn, New York</b>				
SGCC-1165	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1166	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1167	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1341	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size

<b>Dlubak Studios, Inc.; Freeport, Pennsylvania</b>				
SGCC-1348	3/16	inch (5.0 mm)	laminated transparent glass (0.030)	34" by 48"
SGCC-1347	1/4	inch (6.0 mm)	laminated transparent glass (0.030)	Unlimited size
SGCC-1349	3/8	inch (10.0 mm)	laminated transparent glass (0.030)	Unlimited size
SGCC-1350	1/2	inch (12.0 mm)	laminated transparent glass (0.030)	Unlimited size

<b>Downey Glass Company, Inc.; Downey, California</b>				
SGCC- 603	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1002	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 606	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 609	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 604	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC- 605	1/8	inch (3.2 mm)	tempered pattern glass (m)	Unlimited size
SGCC- 607	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
SGCC- 608	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

<b>Downey Glass Company, Inc.; Los Angeles, California</b>				
SGCC- 630	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 514	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 515	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 516	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC- 935	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
SGCC- 678	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

<b>Elgin Precision Glass Company, Inc.; Elgin, Illinois</b>				
SGCC-1369	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1370	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1371	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1372	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

<b>Empire Glass, Inc.; Bronx, New York</b>				
SGCC-1397	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1398	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1399	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1400	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1401	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1402	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size

<b>Falconer-Lewistown, Inc.; Lewistown, Pennsylvania</b>				
SGCC-1282	7/32	inch (5.5 mm)	laminated transparent glass (0.015)	Unlimited size
SGCC-1284	1/4	inch (6.0 mm)	laminated transparent glass (0.015)	Unlimited size
SGCC-1315	3/8	inch (10.0 mm)	laminated transparent glass (0.015)	Unlimited size
SGCC-1316	1/2	inch (12.0 mm)	laminated transparent glass (0.015)	Unlimited size

<b>Falconer Glass Industries, Inc.; Falconer, New York</b>				
SGCC-1339	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1352	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 709	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

Continued next page.

# CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT

# MAXIMUM CERTIFIED SIZE

SGCC-1280	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 711	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1324	5/8	inch (16.0 mm)	tempered transparent glass	Unlimited size
SGCC- 712	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size
SGCC-1330	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

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

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

## Flex-Temp, Inc.; Irving, Texas

SGCC- 921	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 390	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 391	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 392	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1321	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

## Ford Motor Company; Dearborn, Michigan

SGCC- 341	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 396	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 342	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 397	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

## Fulton Glass Industries, Inc.; Red Oak, Georgia

SGCC-1123	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1124	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1125	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1126	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1127	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1326	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

## Gateway Industries; Rogers, Arkansas

SGCC-1355	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1356	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1357	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1358	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1359	5/32	inch (4.0 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1394	3/16	inch (4.8 mm)	tempered pattern glass (d)	Unlimited size

## Gemtron Corporation; Sweetwater, Tennessee

SGCC-1334	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1332	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1201	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size

## General Glass Corporation; Denver, Colorado

SGCC-1180	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1181	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1182	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

## Glass Tempering Service, Inc.; Detroit, Michigan

SGCC-1389	1/8	inch (3.0 mm)	tempered transparent glass	30" by 76"
SGCC-1238	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1340	3/16	inch (4.8 mm)	tempered pattern glass (s)	34" by 72"

**CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**

**MAXIMUM CERTIFIED SIZE**

**Glasstemp, Inc.; Bensenville, Illinois**

SGCC-1381	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1382	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1383	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1384	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**Guardian Industries Corp.; Carleton, Michigan**

SGCC- 933	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 934	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 631	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 131	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 160	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 267	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**Guardian Industries Corp.; Corsicana, Texas**

SGCC-1248	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1249	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1250	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1251	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1252	5/16	inch (8.0 mm)	tempered transparent glass	Unlimited size
SGCC-1253	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1314	5/32	inch (4.0 mm)	tempered pattern glass (s)	Unlimited size

**Guardian Industries Corp.; Fort Lauderdale, Florida**

SGCC-1161	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 633	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 40	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 41	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1004	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1318	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

**Guardian Industries Corp.; Kingsburg, California**

SGCC- 968	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 969	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 970	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 971	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1303	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1301	5/32	inch (4.0 mm)	tempered pattern glass (m)	Unlimited size
SGCC-1304	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

**Guardian Industries Corp.; Upper Sandusky, Ohio**

SGCC- 458	7/32	inch (5.5 mm)	laminated transparent glass (0.030)	Unlimited size
SGCC- 487	1/4	inch (6.0 mm)	laminated transparent glass (0.030)	Unlimited size

**Guardian Industries Corp.; Webster, Massachusetts**

SGCC- 300	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1216	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 662	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 471	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1235	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**Hamilton Glass Products, Inc.; Vincennes, Indiana**

SGCC- 54	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1385	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size

Continued next page.

# **CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**

# **MAXIMUM CERTIFIED SIZE**

SGCC-1200	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 57	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1386	5/32	inch (4.0 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1387	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
<b>Hehr International, Inc.; Chesaning, Michigan</b>				
SGCC-1062	1/8	inch (3.0 mm)	tempered transparent glass	32" by 60"
<b>Hordis Brothers, Inc.; Warrenton, Missouri</b>				
SGCC-1379	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1380	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
<b>Howe-Martz Glass Company; Detroit, Michigan</b>				
SGCC-1265	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1266	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1268	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1269	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1270	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1344	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
<b>LOF Glass; Laurinburg, North Carolina</b>				
SGCC- 350	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 545	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 351	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 352	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 373	5/16	inch (8.0 mm)	tempered transparent glass	Unlimited size
SGCC- 374	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 375	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
<b>LOF Glass; Rossford, Ohio</b>				
SGCC- 19	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 464	5/16	inch (8.0 mm)	tempered transparent glass	Unlimited size
SGCC- 449	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 150	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC- 544	5/8	inch (16.0 mm)	tempered transparent glass	Unlimited size
SGCC- 151	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size
<b>Lear Siegler, Inc.; Wichita, Kansas</b>				
SGCC-1360	3/16	inch (5.0 mm)	laminated transparent glass (0.030)	Unlimited size
SGCC-1173	7/32	inch (5.5 mm)	laminated transparent glass (0.015)	Unlimited size
SGCC-1343	3/16	inch (5.0 mm)	laminated pattern glass (0.030) (s)	Unlimited size
<b>Ohio Plate Glass Company; Jefferson, Texas</b>				
SGCC-1281	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1286	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1287	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1388	1/8	inch (3.2 mm)	tempered pattern glass (m)	Unlimited size
<b>Ohio Plate Glass Company; Lewisburg, Ohio</b>				
SGCC-1050	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 185	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 186	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 654	1/8	inch (3.2 mm)	tempered pattern glass (m)	Unlimited size
SGCC- 188	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

Continued next page.

**CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**
**MAXIMUM CERTIFIED SIZE**

SGCC- 328	3/16	inch (4.8 mm)	tempered pattern glass (d)	Unlimited size
SGCC- 562	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

**PPG Industries, Inc.; Carlisle, Pennsylvania**

SGCC- 250	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 675	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 249	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 382	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Crestline, Ohio**

SGCC- 60	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 927	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 102	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Dallas, Texas**

SGCC- 400	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 402	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1221	5/16	inch (8.0 mm)	tempered transparent glass	Unlimited size
SGCC-1107	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1108	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1225	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size

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

SGCC- 61	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 70	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Fresno, California**

SGCC- 295	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 676	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 64	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Hunt Valley, Maryland**

SGCC- 454	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 455	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 474	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 475	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC- 952	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size
SGCC-1325	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

**PPG Industries, Inc.; Miami, Florida**

SGCC- 195	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 194	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1067	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1336	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1298	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
SGCC- 219	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

**PPG Industries, Inc.; Wichita Falls, Texas**

SGCC-1110	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1111	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1112	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1113	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size



# **CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**

## **MAXIMUM CERTIFIED SIZE**

<b>PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada</b>				
SGCC- 251	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1120	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 209	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1247	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
<b>Rotuba Extruders, Inc.; Linden, New Jersey</b>				
SGCC- 316	0.080	inch and greater thicknesses	smooth extruded acrylic	Unlimited size
<b>Saint Gobain; Gent, Netherland</b>				
SGCC-1393	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
<b>San Jacinto Glass Company; Houston, Texas</b>				
SGCC-1292	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1293	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1294	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1295	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1296	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
<b>Shaw Glass Company, Inc.; South Easton, Massachusetts</b>				
SGCC-1034	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1035	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1036	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1037	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1299	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1071	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size
<b>Sheffield Plastics, Inc.; Sheffield, Massachusetts</b>				
SGCC- 173	0.080	inch through 0.125 inch	smooth extruded acrylic	Unlimited size
<b>Southern Wholesale Glass, Inc.; Marietta, Georgia</b>				
SGCC-1230	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1231	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1232	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
<b>Spectrum Glass Company; Clinton, North Carolina</b>				
SGCC-1073	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1074	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1075	5/16	inch (8.0 mm)	tempered transparent glass	Unlimited size
SGCC-1076	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1077	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1078	5/8	inch (16.0 mm)	tempered transparent glass	Unlimited size
SGCC-1079	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size
<b>Sunglas Products, Inc.; Claremore, Oklahoma</b>				
SGCC-1361	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1362	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1363	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1374	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
<b>Temp-Tech Industries, Inc.; Chicago, Illinois</b>				
SGCC- 986	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**

**MAXIMUM CERTIFIED SIZE**

**Tempered Glass, Inc.; Atlanta, Georgia**

SGCC- 320	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 321	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 322	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 323	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**Tempered Glass Corporation; Tampa, Florida**

SGCC-1395	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 337	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 348	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 338	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1328	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1118	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

**Tempglass, Inc.; Perrysburg, Ohio**

SGCC-1039	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 592	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 593	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 594	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 595	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**Tempglass Eastern, Inc.; Norcross, Georgia**

SGCC- 979	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1259	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 981	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 982	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1058	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1059	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1338	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

**Tempglass Southern, Inc.; Grand Prairie, Texas**

SGCC-1219	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1044	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1045	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1046	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**Texas Tempered Glass Company; Houston, Texas**

SGCC-1192	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 137	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 669	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1159	7/32	inch (5.5 mm)	laminated transparent glass (0.030)	Unlimited size

**Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania**

SGCC-1308	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1310	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1311	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1312	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1313	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**Tuf-flex Glass; Union City, California**

SGCC-1241	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1204	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 482	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 483	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1224	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

# CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT

# MAXIMUM CERTIFIED SIZE

## Viracon, Inc.; Owatonna, Minnesota

SGCC-1403	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1404	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

## Virginia Glass Products Corporation; Martinsville, Virginia

SGCC-1236	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 12	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 14	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 93	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 94	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC- 95	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size
SGCC-1275	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

\* \* \* \* \*

# CERTIFIED PRODUCTS - BY PRODUCT TYPE

# MAXIMUM CERTIFIED SIZE

## TEMPERED TRANSPARENT GLASS

### 1/8 inch tempered transparent glass

AFG Industries, Inc.; Greenland, Tennessee	SGCC- 598	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC-1390	Unlimited
Anglass Industries, Inc.; San Fernando, California	SGCC- 520	Unlimited
Ardco, Inc.; Chicago, Illinois	SGCC-1041	Unlimited
Chamberlain Manufacturing Corporation; Malvern, Arkansas	SGCC- 586	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 603	Unlimited
Elgin Precision Glass Company, Inc.; Elgin, Illinois	SGCC-1369	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1397	Unlimited
Ford Motor Company; Dearborn, Michigan	SGCC- 341	Unlimited
Gateway Industries; Rogers, Arkansas	SGCC-1355	Unlimited
Gemtron Corporation; Sweetwater, Tennessee	SGCC-1334	Unlimited
Glass Tempering Service, Inc.; Detroit, Michigan	SGCC-1389	30 by 76"
Guardian Industries Corp.; Carleton, Michigan	SGCC- 933	Unlimited
Guardian Industries Corp.; Corsicana, Texas	SGCC-1248	Unlimited
Guardian Industries Corp.; Fort Lauderdale, Florida	SGCC-1161	Unlimited
Guardian Industries Corp.; Kingsburg, California	SGCC- 968	Unlimited
Guardian Industries Corp.; Webster, Massachusetts	SGCC- 300	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC- 54	Unlimited
Hehr International, Inc.; Chesaning, Michigan	SGCC-1062	32 by 60"
Hordis Brothers, Inc.; Warrenton, Missouri	SGCC-1379	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 350	Unlimited
Ohio Plate Glass Company; Jefferson, Texas	SGCC-1281	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-1050	Unlimited
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 250	Unlimited
PPG Industries, Inc.; Crestline, Ohio	SGCC- 60	Unlimited
PPG Industries, Inc.; Fresno, California	SGCC- 295	Unlimited
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1110	Unlimited
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	SGCC- 251	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1292	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC-1039	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 979	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1308	Unlimited

### 5/32 inch tempered transparent glass

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC-1176	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 955	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 949	Unlimited
Advanced Glass Corporation; Renedo, Spain	SGCC-1342	Unlimited
Ardco, Inc.; Chicago, Illinois	SGCC-1323	Unlimited
Chamberlain Manufacturing Corporation; Malvern, Arkansas	SGCC-1376	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC-1002	Unlimited
Elgin Precision Glass Company, Inc.; Elgin, Illinois	SGCC-1370	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1339	Unlimited
Ford Motor Company; Dearborn, Michigan	SGCC- 396	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1123	Unlimited
Gemtron Corporation; Sweetwater, Tennessee	SGCC-1332	Unlimited
General Glass Corporation; Denver, Colorado	SGCC-1180	Unlimited
Guardian Industries Corp.; Carleton, Michigan	SGCC- 934	Unlimited
Guardian Industries Corp.; Corsicana, Texas	SGCC-1249	Unlimited
Guardian Industries Corp.; Kingsburg, California	SGCC- 969	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC-1385	Unlimited
Hordis Brothers, Inc.; Warrenton, Missouri	SGCC-1380	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1265	Unlimited

**CERTIFIED PRODUCTS - BY PRODUCT TYPE**
**MAXIMUM CERTIFIED SIZE**
**5/32 inch tempered transparent glass - continued**

LOF Glass; Laurinburg, North Carolina	SGCC- 545	Unlimited
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 675	Unlimited
PPG Industries, Inc.; Fresno, California	SGCC- 676	Unlimited
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1111	Unlimited
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	SGCC-1120	Unlimited
Sunglas Products, Inc.; Claremore, Oklahoma	SGCC-1361	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1259	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-1236	Unlimited

**3/16 inch tempered transparent glass**

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC-1157	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 220	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 28	Unlimited
Anglass Industries, Inc.; San Fernando, California	SGCC- 999	Unlimited
Ardco, Inc.; Chicago, Illinois	SGCC-1042	Unlimited
Chamberlain Manufacturing Corporation; Malvern, Arkansas	SGCC-1377	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 606	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 630	Unlimited
Elgin Precision Glass Company, Inc.; Elgin, Illinois	SGCC-1371	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1398	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1352	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC- 921	Unlimited
Ford Motor Company; Dearborn, Michigan	SGCC- 342	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1124	Unlimited
Gateway Industries; Rogers, Arkansas	SGCC-1356	Unlimited
Gemtron Corporation; Sweetwater, Tennessee	SGCC-1201	Unlimited
General Glass Corporation; Denver, Colorado	SGCC-1181	Unlimited
Glasstemp, Inc.; Bensenville, Illinois	SGCC-1381	Unlimited
Guardian Industries Corp.; Carleton, Michigan	SGCC- 631	Unlimited
Guardian Industries Corp.; Corsicana, Texas	SGCC-1250	Unlimited
Guardian Industries Corp.; Fort Lauderdale, Florida	SGCC- 633	Unlimited
Guardian Industries Corp.; Kingsburg, California	SGCC- 970	Unlimited
Guardian Industries Corp.; Webster, Massachusetts	SGCC-1216	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC-1200	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1266	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 351	Unlimited
Ohio Plate Glass Company; Jefferson, Texas	SGCC-1286	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 185	Unlimited
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 249	Unlimited
PPG Industries, Inc.; Crestline, Ohio	SGCC- 927	Unlimited
PPG Industries, Inc.; Dallas, Texas	SGCC- 400	Unlimited
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 61	Unlimited
PPG Industries, Inc.; Fresno, California	SGCC- 64	Unlimited
PPG Industries, Inc.; Hunt Valley, Maryland	SGCC- 454	Unlimited
PPG Industries, Inc.; Miami, Florida	SGCC- 195	Unlimited
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1112	Unlimited
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	SGCC- 209	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1293	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1034	Unlimited
Southern Wholesale Glass, Inc.; Marietta, Georgia	SGCC-1230	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1073	Unlimited
Sunglas Products, Inc.; Claremore, Oklahoma	SGCC-1362	Unlimited
Tempered Glass, Inc.; Atlanta, Georgia	SGCC- 320	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC-1395	Unlimited

# **CERTIFIED PRODUCTS - BY PRODUCT TYPE**

# **MAXIMUM CERTIFIED SIZE**

## **3/16 inch tempered transparent glass - continued**

Tempglass, Inc.; Perrysburg, Ohio	SGCC- 592	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 981	Unlimited
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1219	Unlimited
Texas Tempered Glass Company; Houston, Texas	SGCC-1192	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1310	Unlimited
Tuf-flex Glass; Union City, California	SGCC-1241	Unlimited
Viracon, Inc.; Owatonna, Minnesota	SGCC-1403	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 12	Unlimited

## **1/4 inch tempered transparent glass**

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC- 638	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 89	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 24	Unlimited
Accutemp Glass Company; San Antonio, Texas	SGCC-1345	Unlimited
Advanced Coating Technology, Inc.; Franklin, Tennessee	SGCC-1277	Unlimited
Anglass Industries, Inc.; San Fernando, California	SGCC-1000	Unlimited
Ardco, Inc.; Chicago, Illinois	SGCC-1049	Unlimited
Chamberlain Manufacturing Corporation; Malvern, Arkansas	SGCC-1378	Unlimited
Colonial Mirror and Glass Corporation; Brooklyn, New York	SGCC-1165	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 609	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 514	Unlimited
Elgin Precision Glass Company, Inc.; Elgin, Illinois	SGCC-1372	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1399	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 709	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC- 390	Unlimited
Ford Motor Company; Dearborn, Michigan	SGCC- 397	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1125	Unlimited
Gateway Industries; Rogers, Arkansas	SGCC-1357	Unlimited
General Glass Corporation; Denver, Colorado	SGCC-1182	Unlimited
Glass Tempering Service, Inc.; Detroit, Michigan	SGCC-1238	Unlimited
Glasstemp, Inc.; Bensenville, Illinois	SGCC-1382	Unlimited
Guardian Industries Corp.; Carleton, Michigan	SGCC- 131	Unlimited
Guardian Industries Corp.; Corsicana, Texas	SGCC-1251	Unlimited
Guardian Industries Corp.; Fort Lauderdale, Florida	SGCC- 40	Unlimited
Guardian Industries Corp.; Kingsburg, California	SGCC- 971	Unlimited
Guardian Industries Corp.; Webster, Massachusetts	SGCC- 662	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC- 57	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1268	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 352	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 19	Unlimited
Ohio Plate Glass Company; Jefferson, Texas	SGCC-1287	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 186	Unlimited
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 382	Unlimited
PPG Industries, Inc.; Crestline, Ohio	SGCC- 102	Unlimited
PPG Industries, Inc.; Dallas, Texas	SGCC- 402	Unlimited
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 70	Unlimited
PPG Industries, Inc.; Hunt Valley, Maryland	SGCC- 455	Unlimited
PPG Industries, Inc.; Miami, Florida	SGCC- 194	Unlimited
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1113	Unlimited
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	SGCC-1247	Unlimited
Saint Gobain; Gent, Netherland	SGCC-1393	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1294	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1035	Unlimited
Southern Wholesale Glass, Inc.; Marietta, Georgia	SGCC-1231	Unlimited

**CERTIFIED PRODUCTS - BY PRODUCT TYPE**
**MAXIMUM CERTIFIED SIZE**
**1/4 inch tempered transparent glass - continued**

Spectrum Glass Company; Clinton, North Carolina	SGCC-1074	Unlimited
Sunglas Products, Inc.; Claremore, Oklahoma	SGCC-1363	Unlimited
Temp-Tech Industries, Inc.; Chicago, Illinois	SGCC- 986	Unlimited
Tempered Glass, Inc.; Atlanta, Georgia	SGCC- 321	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC- 337	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 593	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 982	Unlimited
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1044	Unlimited
Texas Tempered Glass Company; Houston, Texas	SGCC- 137	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1311	Unlimited
Tuf-flex Glass; Union City, California	SGCC-1204	Unlimited
Viracon, Inc.; Owatonna, Minnesota	SGCC-1404	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 14	Unlimited

**5/16 inch tempered transparent glass**

Guardian Industries Corp.; Corsicana, Texas	SGCC-1252	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 373	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 464	Unlimited
PPG Industries, Inc.; Dallas, Texas	SGCC-1221	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1075	Unlimited

**3/8 inch tempered transparent glass**

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC- 639	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 90	Unlimited
Asahi Glass Company, Ltd.; Tokyo, Japan	SGCC-1346	Unlimited
Colonial Mirror and Glass Corporation; Brooklyn, New York	SGCC-1166	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 515	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1400	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1280	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC- 391	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1126	Unlimited
Glasstemp, Inc.; Bensenville, Illinois	SGCC-1383	Unlimited
Guardian Industries Corp.; Carleton, Michigan	SGCC- 160	Unlimited
Guardian Industries Corp.; Corsicana, Texas	SGCC-1253	Unlimited
Guardian Industries Corp.; Fort Lauderdale, Florida	SGCC- 41	Unlimited
Guardian Industries Corp.; Webster, Massachusetts	SGCC- 471	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1269	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 374	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 449	Unlimited
PPG Industries, Inc.; Dallas, Texas	SGCC-1107	Unlimited
PPG Industries, Inc.; Hunt Valley, Maryland	SGCC- 474	Unlimited
PPG Industries, Inc.; Miami, Florida	SGCC-1067	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1295	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1036	Unlimited
Southern Wholesale Glass, Inc.; Marietta, Georgia	SGCC-1232	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1076	Unlimited
Sunglas Products, Inc.; Claremore, Oklahoma	SGCC-1374	Unlimited
Tempered Glass, Inc.; Atlanta, Georgia	SGCC- 322	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC- 348	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 594	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1058	Unlimited
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1045	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1312	Unlimited
Tuf-flex Glass; Union City, California	SGCC- 482	Unlimited

# **CERTIFIED PRODUCTS - BY PRODUCT TYPE**

# **MAXIMUM CERTIFIED SIZE**

## **3/8 inch tempered transparent glass - continued**

Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 93	Unlimited
1/2 inch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC- 640	Unlimited
Colonial Mirror and Glass Corporation; Brooklyn, New York	SGCC-1167	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 516	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1401	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 711	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC- 392	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1127	Unlimited
Glasstemp, Inc.; Bensenville, Illinois	SGCC-1384	Unlimited
Guardian Industries Corp.; Carleton, Michigan	SGCC- 263	Unlimited
Guardian Industries Corp.; Fort Lauderdale, Florida	SGCC-1004	Unlimited
Guardian Industries Corp.; Webster, Massachusetts	SGCC-1235	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1270	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 375	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 150	Unlimited
PPG Industries, Inc.; Dallas, Texas	SGCC-1108	Unlimited
PPG Industries, Inc.; Hunt Valley, Maryland	SGCC- 475	Unlimited
PPG Industries, Inc.; Miami, Florida	SGCC-1336	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1296	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1037	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1077	Unlimited
Tempered Glass, Inc.; Atlanta, Georgia	SGCC- 323	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC- 338	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 595	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1059	Unlimited
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1046	Unlimited
Texas Tempered Glass Company; Houston, Texas	SGCC- 669	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1313	Unlimited
Tuf-flex Glass; Union City, California	SGCC- 483	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 94	Unlimited

## **5/8 inch tempered transparent glass**

Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1324	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 544	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1078	Unlimited

## **3/4 inch tempered transparent glass**

Colonial Mirror and Glass Corporation; Brooklyn, New York	SGCC-1341	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1402	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 712	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 151	Unlimited
PPG Industries, Inc.; Dallas, Texas	SGCC-1225	Unlimited
PPG Industries, Inc.; Hunt Valley, Maryland	SGCC- 952	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1079	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 95	Unlimited

## **TEMPERED PATTERN GLASS**

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

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC-1226	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 587	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 141	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 604	Unlimited



# **CERTIFIED PRODUCTS - BY PRODUCT TYPE**

# **MAXIMUM CERTIFIED SIZE**

1/8 inch tempered pattern glass (shallow patterns) - continued		
Gateway Industries; Rogers, Arkansas	SGCC-1358	Unlimited
Guardian Industries Corp.; Kingsburg, California	SGCC-1303	Unlimited
1/8 inch tempered pattern glass (medium patterns)		
Downey Glass Company, Inc.; Downey, California	SGCC- 605	Unlimited
Ohio Plate Glass Company; Jefferson, Texas	SGCC-1388	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 654	Unlimited
5/32 inch tempered pattern glass (shallow patterns)		
Gateway Industries; Rogers, Arkansas	SGCC-1359	Unlimited
Guardian Industries Corp.; Corsicana, Texas	SGCC-1314	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC-1386	Unlimited
5/32 inch tempered pattern glass (medium patterns)		
Advanced Glass Corporation; Renedo, Spain	SGCC-1260	Unlimited
Guardian Industries Corp.; Kingsburg, California	SGCC-1301	Unlimited
3/16 inch tempered pattern glass (shallow patterns)		
AFG Industries, Inc.; Greenland, Tennessee	SGCC-1139	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC-1143	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 607	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 935	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1330	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC-1321	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1326	Unlimited
Glass Tempering Service, Inc.; Detroit, Michigan	SGCC-1340	34 by 72"
Guardian Industries Corp.; Fort Lauderdale, Florida	SGCC-1318	Unlimited
Guardian Industries Corp.; Kingsburg, California	SGCC-1304	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC-1387	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1344	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 188	Unlimited
PPG Industries, Inc.; Hunt Valley, Maryland	SGCC-1325	Unlimited
PPG Industries, Inc.; Miami, Florida	SGCC-1298	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1299	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC-1328	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1338	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-1275	Unlimited
3/16 inch tempered pattern glass (deep patterns)		
Gateway Industries; Rogers, Arkansas	SGCC-1394	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 328	Unlimited
7/32 inch tempered pattern glass (shallow patterns)		
ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC- 641	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 608	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 678	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 562	Unlimited
PPG Industries, Inc.; Miami, Florida	SGCC- 219	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1071	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC-1118	Unlimited
Tuf-flex Glass; Union City, California	SGCC-1224	Unlimited

**CERTIFIED PRODUCTS - BY PRODUCT TYPE**

**MAXIMUM CERTIFIED SIZE**

**LAMINATED GLASS**

3/16 inch laminated transparent glass

Dlubak Studios, Inc.; Freeport, Pennsylvania

Lear Siegler, Inc.; Wichita, Kansas

SGCC-1348 34 by 48"

SGCC-1360 Unlimited

7/32 inch laminated transparent glass

Falconer-Lewistown, Inc.; Lewistown, Pennsylvania

Guardian Industries Corp.; Upper Sandusky, Ohio

Lear Siegler, Inc.; Wichita, Kansas

Texas Tempered Glass Company; Houston, Texas

SGCC-1282 Unlimited

SGCC- 458 Unlimited

SGCC-1173 Unlimited

SGCC-1159 Unlimited

1/4 inch laminated transparent glass

Dlubak Studios, Inc.; Freeport, Pennsylvania

Falconer-Lewistown, Inc.; Lewistown, Pennsylvania

Guardian Industries Corp.; Upper Sandusky, Ohio

SGCC-1347 Unlimited

SGCC-1284 Unlimited

SGCC- 487 Unlimited

3/8 inch laminated transparent glass

Dlubak Studios, Inc.; Freeport, Pennsylvania

Falconer-Lewistown, Inc.; Lewistown, Pennsylvania

SGCC-1349 Unlimited

SGCC-1315 Unlimited

1/2 inch laminated transparent glass

Dlubak Studios, Inc.; Freeport, Pennsylvania

Falconer-Lewistown, Inc.; Lewistown, Pennsylvania

SGCC-1350 Unlimited

SGCC-1316 Unlimited

**LAMINATED PATTERN GLASS**

3/16 inch laminated pattern glass (shallow patterns)

Lear Siegler, Inc.; Wichita, Kansas

SGCC-1343 Unlimited

**SAFETY PLASTIC SHEET**

0.080 inch and greater thicknesses acrylic

Rotuba Extruders, Inc.; Linden, New Jersey

SGCC- 316 Unlimited

0.080 through 0.125 inch acrylic

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

Sheffield Plastics, Inc.; Sheffield, Massachusetts

SGCC- 118 Unlimited

SGCC- 173 Unlimited

★ ★ ★ ★ ★

## SGCC LABEL REQUIREMENTS

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

The permanent label must contain the SGCC number, ANSI Z97.1-1984, the nominal thickness and the letter U or L indicating certified size.

For labeling purposes, a line of demarcation shall separate those standards covered by the SGCC number from any other standards the licensee wishes to reference.

For purposes of Guideline G.6 "SGCC-xxx/yyy" shall be the only correct designation other than "SGCC-xxx" and "SGCC-yyy" when an identical item is in both the ANSI and CPSC programs. (See examples below.)

"After having successfully passed the appropriate tests, like products and materials produced in the same manner as samples submitted per test shall be legibly and permanently marked in one corner with . . . the characters "ANSI Z97.1-1984 - INDOOR USE ONLY" and shall be marked also with the manufacturer's distinctive mark or designation." Quoted from ANSI Z97.1-1984.

"Organic-coated glass materials shall be permanently marked on the organic coating with a label, including the phrase, "GLAZE THIS SIDE IN" to indicate to the installer, inspector or user which side of the organic-coated glass should be exposed to the elements if there is a specific side that should be exposed." Quoted from ANSI Z97.1-1984.

The permanent label must contain identification of the plant in which the product was made and the name or trade mark of the licensee. (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 licensee's own manufacture, which are certified in the SGCC program.

The permanent label must not be sold, transferred or otherwise disposed of in any manner other than being affixed to the licensee's certified production.

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

### EXAMPLES:

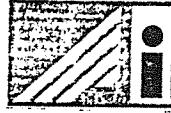
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-123/691 1/4 U

ANSI Z97.1-1984 SGCC-123 1/4 U  
16 CFR 1201 II SGCC-691

ACI GLASS PRODUCTS, INC.  
9010 South Norwalk Boulevard  
Santa Fe Springs, California 90670

**CAL TEMP**  
ANSI-Z 97.1-1975  
16 CFR 1201 CAT. II  
1/4 U—SGCC-638  
SFS-1

ADVANCED GLASS CORPORATION  
P. O. Box 3385  
West Palm Beach, Florida 33402



AIC  
ANSI Z97.1-1975  
SGCC - 1260  
5/32 U

AFG INDUSTRIES, INC.  
P. O. Box 929  
Kingsport, Tennessee 37662

**▲▲▲**  
TEMPERED  
16 CFR 1201.CII  
ANSI Z97.1 1975  
1/4U SGCC-24  
AFG 001

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



ANSI Z97.1-1975  
SGCC-520 1/8U

ACCUTEMP GLASS COMPANY  
Route 10; Box 82P  
San Antonio, Texas 78216

TENTATIVE LABEL

ACCUTEMP  
Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-1345 1/4 U

ARDCO, INC.  
12400 South Laramie Avenue  
Chicago, Illinois 60658

**ardco**  
TEMPER - GARD  
ANSI Z97.1-1975  
SGCC-1041 1/8U

ADVANCED COATING TECHNOLOGY, INC.  
306 Beasley Drive  
Franklin, Tennessee 37064

**ACT**  
ANSI-Z97.1-1975  
16 CFR-1201-II  
S.G.C.C. 1277 1/4"-U

ASAHI GLASS COMPANY, LTD.  
c/o Global Link, Inc.  
548 Rose Avenue  
Venice, California 90291

TENTATIVE LABEL

ASAHI  
Tempered Safety Glass  
ANSI Z97.1-1984  
SGCC-1346 3/8 U

CHAMBERLAIN MANUFACTURING CORPORATION  
P. O. Box H  
Hot Springs, Arkansas 71901

### **SAFETY PANE**

TEMPERED SAFETY GLASS  
ANSI Z97.1-1975 SGCC 586 1/8U  
16 CFR 1201 I & II

COLONIAL MIRROR AND GLASS CORPORATION  
142 19 Street  
Brooklyn, New York 11232

COLONIAL MIRROR & GLASS CORP.  
SAFETY TEMPERED GLASS  
GLAS STEEL 1/2" U  
ANSI-Z-97-1-1975  
16 CFR 1201-I, II, -SGCC-1167

DLUBAK STUDIOS, INC.  
116 Sipes Road  
Freeport, Pennsylvania 16229

**DLUBAK STUDIOS**  
**LAMINATED GLASS**  
**ANSI Z97.1-1975**  
**SGCC-1350 1/2U**

DOWNEY GLASS COMPANY, INC.  
5631 Ferguson Drive  
Los Angeles, California 90022



ELGIN PRECISION GLASS COMPANY, INC.  
1200 Abbott Drive  
Elgin, Illinois 60120


**EPG**  
ANSI Z97.1-1975  
16 CFR 1201 CII  
SGCC 1369 1/8U

EMPIRE GLASS, INC.  
608 East 133 Street  
Bronx, New York 10454

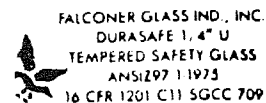
TENTATIVE LABEL

EMPIRE  
Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-1399 1/4 U

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

**FALCONER**  
*Safetec*   
**LAMINATED**  
**ANSI Z97.1-1975**  
**SGCC #1284 1/4U**  
**7-84**

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



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



FLEX-O-GLAZE™  
ACRYLIC SAFETY GLAZING  
16 CFR 1201 CII  
.100U  
ANSI Z97.1-75 SGCC-118

GATEWAY INDUSTRIES  
1414 South First Street  
Rogers, Arkansas 72756

GW  
TEMPERED  
ANSI Z97.1-1975  
16CFR1201-II  
SGCC-1335 1/8U  
DOT 272 AS2 MI

FLEX-TEMP, INC.  
2120 Vanco Drive  
Irving, Texas 75061

GEMTRON CORPORATION  
New Highway 68; P. O. Box 416  
Sweetwater, Tennessee 37874

TENTATIVE LABEL

FLEX-TEMP  
Tempered Safety Glass  
ANSI Z97.1-1984  
SGCC-390 1/4 U


+

TEMPERED  
16CFR 1201 CII  
ANSI Z97.1 1975  
3/16 U - SGCC-1201/1202  
GEMTRON 013 1981

FORD MOTOR COMPANY GLASS DIVISION  
300 Renaissance Center; P. O. Box 43343  
Detroit, Michigan 48243

GENERAL GLASS CORPORATION  
P. O. Box 38711  
Denver, Colorado 80238

  
FORD TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1975  
SGCC-342/729  
16CFR 1201, II  
B6  
3/16 U

  
GENERAL GLASS CORP.  
FLATTEMP™  
DENVER  
3/16"U SGCC-1181  
ANSI Z97.1-1975 16CFR1201-I, II

FULTON GLASS INDUSTRIES, INC.  
5225 Welcome All Road  
Red Oak, Georgia 30272

GLASS TEMPERING SERVICE, INC.  
14285 Wyoming Street  
Detroit, Michigan 48238


FULTONTEMP  
SGCC 1134 1/2" U  
16 CFR 1201-II  
SGCC 1127  
ANSI Z97.1 1975

GT  
SAFETY TEMPERED  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC-1238 1/4 U

GLASSTEMP, INC.  
1001 Foster Avenue  
Bensenville, Illinois 60106

**GLASSTEMP**  
ANSI Z97.1-1975  
16 CFR 1201 C II  
SGCC-1382  
1/4"-U 3


GUARDIAN INDUSTRIES CORP.  
43043 West Nine Mile Road  
Northville, Michigan 48167

 **GUARDIAN**  
CARLETON, MICH.  
ANSI Z97.1-1975  
SAFETY TEMPERED  
SGCC 160 3/8 U  
16 CFR 1201 II  
CGSB 12-GP-1

HAMILTON GLASS PRODUCTS, INC.  
2000 Chestnut Street; P. O. BOX 317  
Vincennes, Indiana 47591

**TEMPER TUF**  
HAMILTON GLASS PRODUCTS  
ANSI Z97.1 - 1975  
1/4 U SGCC - 57  
16 CFR 1201 C II

HEHR INTERNATIONAL, INC.  
1103 West Pearl Street  
Chesaning, Michigan 48616

 **SAFETY**  
DOT 269  
ANSI M491  
SOLID TEMPERED  
.125-L  
ANSI-Z97.1-1975  
16CFR1201-II  
SGCC-1062

HORDIS BROTHERS, INC.  
P. O. Box 368  
Warrenton, Missouri 63383


TENTATIVE LABEL

HORDIS BROTHERS  
Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-1379 1/8 U

HOWE-MARTZ GLASS COMPANY  
14291 Meyers Road  
Detroit, Michigan 48227

**FLO & TUF**  
TEMPERED SAFETY GLASS  
16 CFR 1201 C II  
ANSI Z97.1-1975 1/4 U  
SGCC 1268

LOF GLASS  
LIBBEY-OWENS-FORD COMPANY  
811 Madison Avenue  
P. O. Box 799  
Toledo, Ohio 43695

 **TUF-FLEX® FT 1/4"-U B**  
TEMPERED SAFETY GLASS  
ANSI Z 97.1-1975 SGCC 352  
16 CFR 1201-I, II SGCC 847

LEAR SIEGLER, INC.  
P. O. Box 1879  
Wichita, Kansas 67201

 **SAFELITE® SGCC-1173**  
LAMINATED 7/32 U  
ANSI Z97.1-1975

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

TEMPERED  
SGCC 185  
OHIO PLATE  
3/16" U 16CFR1201-II  
ANSI Z97.1-1975  
12 83 10.

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

PPG HERCULITE K  
TEMPERED SAFETY GLASS  
16CFR1201 CII  
ANSI Z-97.1-1975 1/8" U  
SGCC-295 156H 367H

PPG INDUSTRIES CANADA, LTD.  
1299 20th Street, East  
Owen Sound, Ontario, Canada N4K 2C3

PPG HERCULITE K  
TEMPERED TREMPÉ  
CAN2-12.1 DOT 165  
.....  
16 CFR 1201 C11  
ANSI Z97.1-1975  
SGCC-209 5.0mm U  
840181

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

ROTUBAGLAZ® 16 CFR 1201, I/II  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1975  
SGCC-316 .080U

SAINT GOBAIN  
c/o Euroglass Corporation  
123 Main Street; Suite 920  
White Plains, New York 10601

TENTATIVE LABEL

SAINT GOBAIN  
Tempered Safety Glass  
ANSI Z97.1-1984  
SGCC-1393 1/4 U

SAN JACINTO GLASS COMPANY  
900 Broadway  
Houston, Texas 77012

**Starlite**  
HORIZONTALLY TEMPERED  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC 1292 1/8" U  
SAN JACINTO GLASS CO  
HOUSTON, TEXAS

SHAW GLASS COMPANY, INC.  
55 Bristol Drive  
South Easton, Massachusetts 02375

SOLAR TEMP.  
16 CFR 1201 II

ANSI Z 97.1 1975  
1/4 U SGCC 1035

SHEFFIELD PLASTICS, INC.  
Salisbury Road  
Sheffield, Massachusetts 01257

ACRY-PANE  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC 173  
K2497 .095U



SOUTHERN WHOLESALE GLASS, INC.  
3200 Austell Road  
Marietta, Georgia 30060



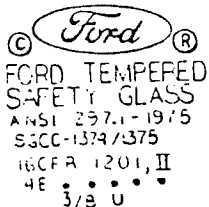
SOUTHERN TEMP.  
ANSI Z97.1-1975  
16 CFR 1201-CII  
SGCC 1230 3/16" U

SPECTRUM GLASS COMPANY  
East Railroad Street; P. O. Box 408  
Clinton, North Carolina 28328

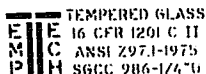
TUF-FLEX® FT 1/4" U  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1975 SGCC-1074  
16 CFR 1201-I, II SGCC-1081



SUNGLAS PRODUCTS, INC.  
c/o Ford Motor Company Glass Division  
300 Renaissance Center; P. O. Box 43343  
Detroit, Michigan 48243



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



TEMPERED GLASS, INC.  
7160 Delta Circle  
Austell, Georgia 30001

- Tuf-flex Glass FT 1/4" U G •
- TEMPERED SAFETY GLASS •
- ANSI Z97.1-1975 16 CFR 1201-I&II
- SGCC-321 SGCC-863 •

TEMPERED GLASS CORPORATION  
6900 Adamo Drive  
Tampa, Florida 33619

TEMCO  
SGCC-338 .500U  
SGCC-834  
16 CFR 1201-II  
ANSI Z97.1 1975

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

TEMPGLASS, INC.  
16 CFR 1201 C II  
ANSI Z97.1-1975  
SGCC 594  
3/8" U (1)

TEMPGLASS EASTERN, INC.  
Blueridge Industrial Park  
P. O. Box 928  
Norcross, Georgia 30071

TEMPGLASS  
EASTERN  
ANSI Z97.1-1975  
16 CFR 1201-II  
SGCC-979 1/8" U  
03 03

TEMPGLASS SOUTHERN, INC.  
1101 Fountain Parkway  
Grand Prairie, Texas 75050

TEMPGLASS SOUTHERN  
ANSI Z97.1 - 1975  
SGCC 1046 1/2" U  
16 CFR 1201 - 11

TUF-FLEX GLASS  
LIBBEY-OWENS-FORD COMPANY  
P. O. Box 799  
Toledo, Ohio 43695

- Tuf-flex Glass FT 1/4"-U H •
- TEMPERED SAFETY GLASS •
- ANSI Z97.1-1984 16 CFR 1201-1&11 •
- SGCC-1204 SGCC-1205 •

TEXAS TEMPERED GLASS COMPANY  
1331 West Belt Drive North  
Houston, Texas 77024

VIRACON, INC.  
800 Park Drive; P. O. Box 248  
Owatonna, Minnesota 55060

TENTATIVE LABEL

TEXAS TEMPERED  
Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-669 1/2 U

VIRACON  
TEMPERED  
16 CFR 1201 II  
SGCC 1404 1/4" U  
ANSI Z97.1 1984  
1 85

TRACO  
Cranberry Industrial Park  
P. O. Box 805  
Warrendale, Pennsylvania 15095

VIRGINIA GLASS PRODUCTS CORPORATION  
P. O. Box 5431  
Martinsville, Virginia 24115



TIRACO VIEW-SAFE  
TEMPERED GLASS  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC-1308 1/8 U



## SGCC APPROVED TESTING LABORATORIES

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

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

ETL Testing Laboratories, Inc.  
5855 P Oakbrook Parkway  
Norcross, Georgia 30093  
Attention: Mr. Burr Bachler  
Telephone 404-446-7294

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

ETL Testing Laboratories, Inc.  
Route 11 Industrial Park  
Cortland, New York 13045  
Attention: Mr. Claude F. Robb  
Telephone 607-753-6711

Southwestern Laboratories  
2900 Cullen Street; P. O. Box 1379  
Fort Worth, Texas 76101  
Attention: Mr. Wayne Tessener  
Telephone 817-332-5181

Inspection and Research Laboratory, Inc.  
4749 West State Street; Building H  
Ontario, California 91761  
Attention: Mr. W. Bradford Smith  
Telephone 714-591-1789

United States Testing Company, Inc.  
1415 Park Avenue  
Hoboken, New Jersey 07030  
Attention: Mr. James E. Fuller  
Telephone 201-792-2400

\* \* \* \* \*

## PROCEDURAL GUIDE

### FOREWORD

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 that provides an independent third party certification and testing program. 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 licensees.

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 licensees 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.

#### WHO CAN BECOME A LICENSEE?

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

#### WHO CONDUCTS THE PROGRAM?

The Safety Glazing Certification Council, a non-profit corporation, is the sponsor of 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 LICENSEE?

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

- a) The manufacturer signs two copies of the SGCC License Agreement (including notarization of the Affidavit, Appendix A) and sends these to SGCC. SGCC will countersign both copies and return one to the manufacturer.
- b) The manufacturer directs the testing laboratory to send to SGCC one copy of a valid test report from an official SGCC recognized 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 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 licensee 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 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 licensee. 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.

Licensees 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 licensee's 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 licensee'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 licensee 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 licensee 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 \$350 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 licensee 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 licensee at any time.

## COSTS

### WHAT DOES THE PROGRAM COST?

The licensee pays all projected fees to SGCC on a six-month basis, in advance. A licensee 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 licensee 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:

\$610 administrative fee plus \$30 contingency fund fee per six months plus necessary laboratory fees for the first item at a plant for the ANSI program.

\$86 administrative fee plus \$15 contingency fund fee per six months plus necessary laboratory fees for each subsequent item at the same plant for the ANSI program.

\$751 administrative fee plus \$30 contingency fund fee per six months plus necessary laboratory fees for the first item at a plant for the composite program.

\$103 administrative fee plus \$15 contingency fund fee per six months plus necessary laboratory fees for each subsequent item at the same plant for the composite program.

## CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS

### LICENSE AGREEMENT

This agreement, incorporating independent program administration and routine, periodic independent sampling and evaluation, governs the relationship between SGCC and the licensee.

Future amendments or revisions to the license agreement will be recommended by the SGCC certification committee and enacted by the SGCC board of directors.

### EFFECTIVE DATE, DURATION AND TERMINATION

The license agreement 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 the 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 licensee 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 licensee 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 licensee does not notify SGCC within one week of the resumption of production the bond is forfeited to SGCC.

### ADMINISTRATIVE SERVICE AGREEMENT

This agreement, entered into by SGCC and 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 required by the program
- 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 licensees, 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 administrative service agreement, for the guidance of those concerned with the procedural details of the certification program. It covers the steps to be taken in any given procedural situation in the interest of equitable and uniform treatment of licensees 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 licensee.

## CERTIFICATION LABEL

This certification mark is permanently affixed to each piece of certified safety glazing material by the licensee. It contains a number 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 corporate legal 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 licensee 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:

Mr. Richard L. Morrison, SGCC President  
c/o Ford Motor Company Glass Division  
300 Renaissance Center; P. O. Box 43343  
Detroit, Michigan 48243  
Telephone 716-665-6422

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

Mr. Robert A. Moss, Chairman  
SGCC Certification Committee  
c/o Hamilton Glass Products, Inc.  
2000 Chestnut Street  
P. O. Box 317  
Vincennes, Indiana 47591  
Telephone 812-882-2680



## CERTIFICATION GUIDELINES AND INTERPRETATIONS

For guidance in certifying safety glazing materials the SGCC certification committee has adopted the following:

### GENERAL

#### G.1

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

#### G.2

Tests for initial compliance of safety glazing materials to ANSI Z97.1-1984 will be accepted from any testing laboratory approved by the SGCC certification committee.

#### G.3

Paragraph (1) Section 5.1.3 of ANSI Z97.1-1984 is intended to apply to laminated, wired and organic coated glass only. Paragraph (2) is intended to apply to tempered glass only. Paragraph (3) is intended to apply to plastics only. Paragraph (4) is intended to apply to any safety glazing material.

#### G.4

For insulating glass units to be considered safety glazing material, each light in the construction must be of safety glazing material.

#### G.5

The SGCC item number when used as part of a permanent label designates the name of the licensee (participant) and also the location of the manufacturing plant 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).

For labeling purposes, a demarcation line shall separate those standards covered by the SGCC number from any other standards the licensee wishes to reference.

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

e) As of July 1, 1985 the SGCC permanent label must contain ANSI Z97.1-1984 in order to be considered a correct permanent label for purposes of Guideline G.6.

#### G.7

Safety glazing materials for which certification is requested for indoor use only shall be subjected to the provisions of section 5.1 (impact tests) and 5.4 (aging tests) of ANSI Z97.1-1984 irrespective of the composition or construction of the glazing material. Like products and materials produced in the same manner as samples submitted for test shall be legibly and permanently marked in one corner with the words "Indoor Use Only" and the SGCC identification number.

#### G.8

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 Z97.1-1984 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 licensee's premises or requests licensee's samples when none are available at the time of sampling:

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

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

#### G.11

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

a) Written notice and an invoice shall be sent to the licensee by the administrator stating that within 30 days from the date of such notice the licensee must submit a retest sample to the testing laboratory designated by the administrator.

Certification shall be removed if the sample and payment are not received within the allotted 30 days or if the sample submitted fails to comply with the specifications.

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

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

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

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

#### G.12

If a licensee who manufactures a certified product outside the 48 contiguous states feels that in a particular instance that he will be unable to act as provided for in

paragraph a) of SGCC Guideline G.11, he should notify the administrator. The administrator will then contact the chairman of the certification committee for a decision as to what action is to be taken.

#### G.13

In cases where a certified item is produced infrequently or in small quantities so as to make it difficult for the administrator to obtain routine evaluation samples, the licensee shall notify the administrator at least two weeks in advance of any production of such item.

#### G.14

The administrator shall remove certification from all of any licensee's products for failure to pay any monies due to SGCC within 30 days of invoice date. (Reference license agreement A.2, A.12 and B.6.)

#### G.15

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

#### G.16

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

#### G.17

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

#### G.18

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

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

#### G.19

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

#### G.20

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

#### G.21

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

#### G.22

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

- a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.
- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1984 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 licensee may desire to retain certification during the shutdown period. This shall be done as follows:

- a) Prior to or within 2 weeks after the shutdown, the licensee shall inform the SGCC administrator by certified mail.
- b) The SGCC administrator will immediately supply the licensee with test release bond forms for submission by the licensee. A separate bond shall be submitted for each certified product affected.
- c) Within 2 weeks after receipt of the bond forms, the licensee shall submit them to the SGCC administrator.
- d) During the period covered by the bond the licensee shall retain certification, contingent upon payment of normal certification fees and meeting all other licensee obligations. Bonds will terminate 90 days after acceptance by SGCC but may be renewed by the licensee any number of times. Renewal is an obligation of the licensee and requires all steps listed herein.
- e) Within one week after re-activation of the production facility the licensee shall 1) notify the SGCC administrator by certified mail and 2) submit samples from the first weeks production to an SGCC approved laboratory for testing. In cases where more than one certified product is produced with the same equipment, samples of each must be furnished for testing within the first month. These will be considered as the routine samples for retesting for the six months period during which they are submitted.
- f) Failure of the licensee to comply with any of the preceding shall be the basis for removal of certification from the affected products.

G.24

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

G.25

When a licensee specifically and voluntarily desires to use a SGCC permanent label on their product that denotes compliance with ANSI Z97.1-1966, ANSI Z97.1-1972, ANSI Z97.1-1975 and ANSI Z97.1-1984 or combination thereof, that they notify SGCC in writing of the certified item that they desire to so mark. SGCC will, at the request of the licensee, conduct compliance tests to ANSI Z97.1-1966, ANSI Z97.1-1972, ANSI Z97.1-1975 and ANSI Z97.1-1984 or combination thereof. A single set of four test specimens will be impacted to determine impact test requirements of all standards. Upon successful completion of compliance tests the safety glazing materials are permanently labeled and listed in the SGCC certified products directory as having met the requirements of 1966, 1972, 1975 and 1984 versions or combination thereof of the ANSI Z97.1 standard. Any costs involved shall be paid by the licensee.

G.26

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

G.27

A licensee, by executing a supplementary license agreement, can elect to be in both 16 CFR 1201 and ANSI Z97.1-1984 programs under one SGCC number provided the licensee submits four specimens to be impact tested to ANSI Z97.1-1984 and one specimen to be impact tested to 16 CFR 1201 (all safety glazing materials that are not symmetrical from surface to surface, shall be impacted one specimen on one side and one specimen on the other side for 16 CFR 1201). If any one specimen of the composite sample fails, the entire composite sample will be considered to have failed to comply with both specifications.

G.28

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

G.29

For the purposes of certification, the thickness requirements of Federal Specification DD-G-451d shall apply.

G.30

For certification purposes, the minimum thickness shall be 0.092 and the maximum thickness shall be 0.108 inches for 0.100 inch glass.

G.31

For certification purposes, the nominal thickness of single strength pattern glass shall be 0.094 inches and thickness tolerances shall be plus 0.047 inches and minus 0.015 inches.

G.32        None

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

T.5

Certification of any nominal thickness of tempered safety plate, float or sheet glass will also cover the other two types. ANSI Z97.1 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.

T.6

Prototype test shall be conducted on bent specimens sampled from normal production run. The specimen size shall have a surface area of at least 50 percent of the maximum size for which certification is desired. Routine tests 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 the purposes of certification, the nominal thickness of patterned, figured, or rough rolled glass are the common fractions found in DD-G-451d. The permanent label must contain this fraction or a metric or decimal dimension within the tolerance of this thickness as published in DD-G-451d.

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

<u>Pattern depth class</u>	<u>Ratio</u>
Shallow pattern glass	0.90 or above
Medium pattern glass	0.80 through 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.

In the case of 5/32 inch tempered pattern glass refer to DD-G-1403b because this thickness is not included in DD-G-451d.

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

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

TP.2

The maximum thickness shall be recorded when measuring the thickness of 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 test purposes.

TP.4

For certification purposes, the nominal thickness of 210 tempered pattern glass shall be 0.210 inches and thickness tolerances shall be plus 0.031 inches and minus 0.016 inches.

TP.5

When medium pattern glass is not available for routine sampling, the licensee submitted specimens must be a medium pattern (a shallow pattern is not acceptable).

TP.6

When deep pattern glass is not available for routine sampling, the licensee submitted specimens must be a deep pattern (shallow or medium patterns are not acceptable).

## LAMINATED GLASS

L.1

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

L.2

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

L.3

Certification of 7/32 inch laminated glass also covers SS/DS and vice versa.

L.4

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

L.5

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

L.6

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

L.7

For certification purposes the following thickness tolerances shall be used: Thickness tolerance shall apply only to the overall thickness. The plus tolerance shall be the sum of all the individual plus tolerances of each layer of the laminate. The minus tolerance shall be the sum of all of the individual minus tolerances of each layer of the laminate. Polyurethane interlayer shall have a thickness tolerance of plus or minus 0.015 inches.

The tolerance of the polyvinylbutyral (PVB) shall be based on the nominal thickness of the interlayer with a plus tolerance of 0.002 and a minus tolerance of 0.004 inches.

L.8  
When a laminated annealed glass is certified, other laminated glasses having the same thickness or thicknesses of heat strengthened or tempered glass and the same or greater thickness of plastic interlayer of the same chemical composition will be considered to be included in the certification.

L.9  
When laminated glass is not available for routine sampling, the licensee submitted specimens must contain the identical thickness plastic interlayer that was contained in the prototype specimens.

#### WIRED GLASS

W.1  
Certification of one polished wired glass may be applied to other polished wired glasses provided:

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

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

#### PLASTICS - GENERAL

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

P.2  
For certifying all plastics covering a range of thicknesses, prototype impact tests are required of the minimum thickness and also of the maximum thickness (except that 0.250 inch thickness would be tested if the maximum thickness exceeds 0.250 inches). Only one certification number will be issued and shall be marked upon all thicknesses. Routine evaluation samples are to be selected by the administrator from any of the certified thicknesses.

P.3  
The following thickness tolerances shall be used for certification purposes:

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

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



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

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

P.4

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

P.5

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

PLASTICS - EXTERIOR USE

PE.1

Sheet plastics for exterior use must comply with ANSI Z97.1-1984.

PE.2

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

PE.3

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

PE.4

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

PLASTICS - INDOOR USE ONLY

PI.1

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

PI.2

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

PI.3

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

LEADED PATTERNED ANNEALED GLASS

LG.1

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

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

#### LG.2

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

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

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

#### LG.3

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

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

### ORGANIC COATED GLASS

#### AG.1

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

#### 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 for the curved edges. Two specimens shall have organic coating on the concave surface and two on the convex surface. Impact shall be on the convex surface.

**ANSI Z97.1-1984 Safety Performance Specifications and Methods of Test  
for Safety Glazing Materials Used in Buildings**

The purpose of ANSI Z97.1-1984 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 important document is designed to provide a basis for standards that may be incorporated in federal, state and local regulations.

Copies of ANSI Z97.1-1984 may be obtained from:

American National Standards Institute  
1430 Broadway  
New York, New York 10018

\* \* \* \* \*

## ADDITIONS:

## Empire Glass, Inc.; Bronx, New York

SGCC-1397	1/8	inch tempered transparent glass	Unlimited size
SGCC-1398	3/16	inch tempered transparent glass	Unlimited size
SGCC-1399	1/4	inch tempered transparent glass	Unlimited size
SGCC-1400	3/8	inch tempered transparent glass	Unlimited size
SGCC-1401	1/2	inch tempered transparent glass	Unlimited size
SGCC-1402	3/4	inch tempered transparent glass	Unlimited size

## Hamilton Glass Products, Inc.; Vincennes, Indiana

SGCC-1385	5/32	inch tempered transparent glass	Unlimited size
SGCC-1386	5/32	inch tempered pattern glass (s)	Unlimited size
SGCC-1387	3/16	inch tempered pattern glass (s)	Unlimited size

## Tempered Glass Corporation; Tampa, Florida

SGCC-1395	3/16	inch tempered transparent glass	Unlimited size
-----------	------	---------------------------------	----------------

## Viracon, Inc.; Owatonna, Minnesota

SGCC-1403	3/16	inch tempered transparent glass	Unlimited size
SGCC-1404	1/4	inch tempered transparent glass	Unlimited size

## DELETIONS:

## Advanced Glass Corporation; Sao Paulo, Brazil

SGCC-1337	5/32	inch tempered pattern glass	Unlimited size
-----------	------	-----------------------------	----------------

## J. E. Berkowitz, Inc.; Westville, New Jersey

SGCC-1276	1/8	inch tempered transparent glass	Unlimited size
SGCC-1272	1/4	inch tempered transparent glass	Unlimited size
SGCC-1273	3/8	inch tempered transparent glass	Unlimited size
SGCC-1274	1/2	inch tempered transparent glass	Unlimited size

## Guardian Industries Corp.; Fort Lauderdale, Florida

SGCC- 617	7/32	inch tempered pattern glass (s)	Unlimited size
-----------	------	---------------------------------	----------------

## Hamilton Glass Products, Inc.; Vincennes, Indiana

SGCC-1179	210	inch tempered pattern glass (s)	Unlimited size
-----------	-----	---------------------------------	----------------

## Northwestern Industries, Inc.; Seattle, Washington

SGCC- 701	1/8	inch tempered transparent glass	Unlimited size
SGCC- 702	5/32	inch tempered transparent glass	Unlimited size
SGCC- 703	3/16	inch tempered transparent glass	Unlimited size
SGCC- 704	1/4	inch tempered transparent glass	Unlimited size
SGCC-1257	3/8	inch tempered transparent glass	Unlimited size
SGCC-1258	1/2	inch tempered transparent glass	Unlimited size
SGCC- 920	5/32	inch tempered pattern glass (m)	Unlimited size
SGCC- 707	7/32	inch tempered pattern glass (s)	Unlimited size

## Saint Gobain; Porz, Germany

SGCC-1351	3/8	inch tempered transparent glass	Unlimited size
-----------	-----	---------------------------------	----------------

## Tempglass, Ltd.; Weston, Ontario, Canada

SGCC-1354	1/8	inch tempered transparent glass	Unlimited size
SGCC-1095	1/4	inch tempered transparent glass	Unlimited size
SGCC-1089	3/8	inch tempered transparent glass	Unlimited size
SGCC-1090	1/2	inch tempered transparent glass	Unlimited size
SGCC-1373	5/32	inch tempered pattern glass (s)	Unlimited size

## Tempglass Eastern, Inc.; Norcross, Georgia

SGCC- 987	1/8	inch tempered pattern glass (s)	Unlimited size
-----------	-----	---------------------------------	----------------



## 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) in 1971.

The Safety Glazing Certification Council is a non-profit organization which has established and maintains a program to administer periodic testing to the 16 CFR 1201 standard, a 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 16 CFR 1201 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 operates an independent third party certification and testing program.

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 16 CFR 1201. 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 a 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 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.

# CERTIFIED PRODUCTS - NUMERICAL SEQUENCE

SGCC- 12 Virginia Glass  
SGCC- 14 Virginia Glass  
SGCC- 24 AFG Industries  
SGCC- 28 AFG Industries  
SGCC- 54 Hamilton Glass

SGCC- 57 Hamilton Glass  
SGCC- 60 PPG Industries  
SGCC- 61 PPG Industries  
SGCC- 64 PPG Industries  
SGCC- 70 PPG Industries

SGCC- 89 AFG Industries  
SGCC- 90 AFG Industries  
SGCC- 93 Virginia Glass  
SGCC- 94 Virginia Glass  
SGCC- 95 Virginia Glass

SGCC- 118 Flex-O-Glass  
SGCC- 137 Texas Tempered  
SGCC- 141 AFG Industries  
SGCC- 173 Sheffield Plastics  
SGCC- 185 Ohio Plate Glass

SGCC- 186 Ohio Plate Glass  
SGCC- 194 PPG Industries  
SGCC- 195 PPG Industries  
SGCC- 209 PPG Industries Canada  
SGCC- 220 AFG Industries

SGCC- 249 PPG Industries  
SGCC- 250 PPG Industries  
SGCC- 251 PPG Industries Canada  
SGCC- 295 PPG Industries  
SGCC- 316 Rotuba Extruders

SGCC- 400 PPG Industries  
SGCC- 402 PPG Industries  
SGCC- 454 PPG Industries  
SGCC- 455 PPG Industries  
SGCC- 586 Chamberlain

SGCC- 587 AFG Industries  
SGCC- 592 Tempglass  
SGCC- 593 Tempglass  
SGCC- 594 Tempglass  
SGCC- 595 Tempglass

SGCC- 598 AFG Industries  
SGCC- 638 ACI Glass Products  
SGCC- 639 ACI Glass Products  
SGCC- 640 ACI Glass Products  
SGCC- 641 ACI Glass Products

SGCC- 669 Texas Tempered  
SGCC- 675 PPG Industries  
SGCC- 676 PPG Industries  
SGCC- 709 Falconer Glass  
SGCC- 711 Falconer Glass

SGCC- 712 Falconer Glass  
SGCC- 727 Ford Motor Company  
SGCC- 728 Ford Motor Company  
SGCC- 729 Ford Motor Company  
SGCC- 730 Ford Motor Company

SGCC- 805 Downey Glass  
SGCC- 806 Downey Glass  
SGCC- 807 Downey Glass  
SGCC- 808 Downey Glass  
SGCC- 809 Downey Glass

SGCC- 810 Downey Glass  
SGCC- 811 Downey Glass  
SGCC- 812 Downey Glass  
SGCC- 813 Downey Glass  
SGCC- 814 Downey Glass

SGCC- 815 Downey Glass  
SGCC- 817 Downey Glass  
SGCC- 832 Tempered Glass  
SGCC- 833 Tempered Glass  
SGCC- 834 Tempered Glass

SGCC- 844 LOF Glass  
SGCC- 845 LOF Glass  
SGCC- 846 LOF Glass  
SGCC- 847 LOF Glass  
SGCC- 848 LOF Glass

SGCC- 849 LOF Glass  
SGCC- 850 LOF Glass  
SGCC- 855 LOF Glass  
SGCC- 856 LOF Glass  
SGCC- 857 LOF Glass

SGCC- 858 LOF Glass  
SGCC- 859 LOF Glass  
SGCC- 860 LOF Glass  
SGCC- 862 Tempered Glass, Inc.  
SGCC- 863 Tempered Glass, Inc.

SGCC- 865 Tempered Glass, Inc.  
SGCC- 866 Tempered Glass, Inc.  
SGCC- 872 Flex-Temp  
SGCC- 873 Flex-Temp  
SGCC- 874 Flex-Temp

SGCC- 879 Tuf-flex Glass  
SGCC- 881 Tuf-flex Glass  
SGCC- 882 Tuf-flex Glass  
SGCC- 927 PPG Industries  
SGCC- 949 AFG Industries

SGCC- 955 AFG Industries  
SGCC- 979 Tempglass Eastern  
SGCC- 981 Tempglass Eastern  
SGCC- 982 Tempglass Eastern  
SGCC- 986 Temp-Tech

SGCC-1003 Downey Glass  
SGCC-1010 Flex-Temp  
SGCC-1034 Shaw Glass  
SGCC-1035 Shaw Glass  
SGCC-1036 Shaw Glass

SGCC-1037 Shaw Glass  
SGCC-1039 Tempglass  
SGCC-1044 Tempglass Southern  
SGCC-1045 Tempglass Southern  
SGCC-1046 Tempglass Southern

SGCC-1050 Ohio Plate Glass  
SGCC-1058 Tempglass Eastern  
SGCC-1059 Tempglass Eastern  
SGCC-1062 Hehr International  
SGCC-1071 Shaw Glass

SGCC-1080 Spectrum Glass  
SGCC-1081 Spectrum Glass  
SGCC-1082 Spectrum Glass  
SGCC-1083 Spectrum Glass

# CERTIFIED PRODUCTS - NUMERICAL SEQUENCE

SGCC-1084 Spectrum Glass  
SGCC-1085 Spectrum Glass  
SGCC-1086 Spectrum Glass  
SGCC-1110 PPG Industries  
SGCC-1111 PPG Industries

SGCC-1112 PPG Industries  
SGCC-1114 Downey Glass  
SGCC-1120 PPG Industries Canada  
SGCC-1130 Fulton Glass  
SGCC-1131 Fulton Glass

SGCC-1132 Fulton Glass  
SGCC-1134 Fulton Glass  
SGCC-1139 AFG Industries  
SGCC-1143 AFG Industries  
SGCC-1149 Tuf-flex Glass

SGCC-1157 ACI Glass Products  
SGCC-1159 Texas Tempered  
SGCC-1165 Colonial  
SGCC-1166 Colonial  
SGCC-1167 Colonial

SGCC-1176 ACI Glass Products  
SGCC-1180 General Glass  
SGCC-1181 General Glass  
SGCC-1182 General Glass  
SGCC-1192 Texas Tempered

SGCC-1200 Hamilton Glass  
SGCC-1202 Gemtron  
SGCC-1205 Tuf-flex Glass  
SGCC-1210 Tempered Glass  
SGCC-1212 Fulton Glass

SGCC-1219 Tempglass Southern  
SGCC-1226 ACI Glass Products  
SGCC-1230 Southern Wholesale  
SGCC-1231 Southern Wholesale  
SGCC-1232 Southern Wholesale

SGCC-1236 Virginia Glass  
SGCC-1238 Glass Tempering Service  
SGCC-1259 Tempglass Eastern  
SGCC-1265 Howe-Martz  
SGCC-1266 Howe-Martz

SGCC-1268 Howe-Martz  
SGCC-1269 Howe-Martz  
SGCC-1270 Howe-Martz  
SGCC-1275 Virginia Glass  
SGCC-1277 Advanced Coating Technology

SGCC-1280 Falconer Glass  
SGCC-1281 Ohio Plate Glass  
SGCC-1286 Ohio Plate Glass  
SGCC-1287 Ohio Plate Glass  
SGCC-1292 San Jacinto

SGCC-1293 San Jacinto  
SGCC-1294 San Jacinto  
SGCC-1295 San Jacinto  
SGCC-1296 San Jacinto  
SGCC-1299 Shaw Glass

SGCC-1305 Virginia Mirror  
SGCC-1306 Virginia Mirror  
SGCC-1307 Virginia Mirror  
SGCC-1308 Traco

SGCC-1310 Traco  
SGCC-1311 Traco  
SGCC-1312 Traco  
SGCC-1313 Traco  
SGCC-1322 Flex-Temp

SGCC-1324 Falconer Glass  
SGCC-1327 Fulton Glass  
SGCC-1329 Tempered Glass  
SGCC-1330 Falconer Glass  
SGCC-1331 Vidrierias De Llodio

SGCC-1333 Gemtron  
SGCC-1335 Gemtron  
SGCC-1338 Tempglass Eastern  
SGCC-1339 Falconer Glass  
SGCC-1340 Glass Tempering Service

SGCC-1341 Colonial  
SGCC-1343 Lear Siegler  
SGCC-1344 Howe-Martz  
SGCC-1345 Accutemp Glass  
SGCC-1352 Falconer Glass

SGCC-1355 Gateway Industries  
SGCC-1356 Gateway Industries  
SGCC-1357 Gateway Industries  
SGCC-1358 Gateway Industries  
SGCC-1359 Gateway Industries

SGCC-1360 Lear Siegler  
SGCC-1365 Sunglas Products  
SGCC-1366 Sunglas Products  
SGCC-1367 Sunglas Products  
SGCC-1369 Elgin Precision Glass

SGCC-1370 Elgin Precision Glass  
SGCC-1371 Elgin Precision Glass  
SGCC-1372 Elgin Precision Glass  
SGCC-1375 Sunglas Products  
SGCC-1376 Chamberlain

SGCC-1377 Chamberlain  
SGCC-1378 Chamberlain  
SGCC-1379 Hordis Brothers  
SGCC-1380 Hordis Brothers  
SGCC-1381 Glasstemp

SGCC-1382 Glasstemp  
SGCC-1383 Glasstemp  
SGCC-1384 Glasstemp  
SGCC-1385 Hamilton Glass  
SGCC-1386 Hamilton Glass

SGCC-1387 Hamilton Glass  
SGCC-1389 Glass Tempering Service  
SGCC-1390 AFG Industries  
SGCC-1394 Gateway Industries  
SGCC-1396 Tempered Glass

SGCC-1397 Empire Glass  
SGCC-1398 Empire Glass  
SGCC-1399 Empire Glass  
SGCC-1400 Empire Glass  
SGCC-1401 Empire Glass

SGCC-1402 Empire Glass  
SGCC-1403 Viracon  
SGCC-1404 Viracon  
SGCC-1407 Vidrierias De Llodio



CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT

MAXIMUM CERTIFIED SIZE

ACI Glass Products, Inc.; Santa Fe Springs, California

SGCC-1176	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1157	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 638	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 639	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 640	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1226	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC- 641	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

AFG Industries, Inc.; Greenland, Tennessee

SGCC- 598	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 955	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 220	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 89	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 90	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 587	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1139	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

AFG Industries, Inc.; Kingsport, Tennessee

SGCC-1390	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 949	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 28	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 24	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 141	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1143	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

Accutemp Glass Company; San Antonio, Texas

SGCC-1345	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
-----------	-----	---------------	----------------------------	----------------

Advanced Coating Technology, Inc.; Franklin, Tennessee

SGCC-1277	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
-----------	-----	---------------	----------------------------	----------------

Chamberlain Manufacturing Corporation; Malvern, Arkansas

SGCC- 586	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1376	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1377	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1378	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

Colonial Mirror and Glass Corporation; Brooklyn, New York

SGCC-1165	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1166	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1167	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1341	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size

Downey Glass Company, Inc.; Downey, California

SGCC- 805	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1003	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 806	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 807	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 808	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC- 809	1/8	inch (3.2 mm)	tempered pattern glass (m)	Unlimited size
SGCC- 810	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

Downey Glass Company, Inc.; Los Angeles, California

SGCC- 812	3/16	inch	(5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 813	1/4	inch	(6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 814	3/8	inch	(10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 815	1/2	inch	(12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1114	3/16	inch	(4.8 mm)	tempered pattern glass (s)	Unlimited size
SGCC- 817	7/32	inch	(5.6 mm)	tempered pattern glass (s)	Unlimited size

Elgin Precision Glass Company, Inc.; Elgin, Illinois

SGCC-1369	1/8	inch	(3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1370	5/32	inch	(4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1371	3/16	inch	(5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1372	1/4	inch	(6.0 mm)	tempered transparent glass	Unlimited size

Empire Glass, Inc.; Bronx, New York

SGCC-1397	1/8	inch	(3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1398	3/16	inch	(5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1399	1/4	inch	(6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1400	3/8	inch	(10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1401	1/2	inch	(12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1402	3/4	inch	(19.0 mm)	tempered transparent glass	Unlimited size

Falconer Glass Industries, Inc.; Falconer, New York

SGCC-1339	5/32	inch	(4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1352	3/16	inch	(5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 709	1/4	inch	(6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1280	3/8	inch	(10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 711	1/2	inch	(12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1324	5/8	inch	(16.0 mm)	tempered transparent glass	Unlimited size
SGCC- 712	3/4	inch	(19.0 mm)	tempered transparent glass	Unlimited size
SGCC-1330	3/16	inch	(4.8 mm)	tempered pattern glass (s)	Unlimited size

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

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

Flex-Temp, Inc.; Irving, Texas

SGCC-1010	3/16	inch	(5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 872	1/4	inch	(6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 873	3/8	inch	(10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 874	1/2	inch	(12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1322	3/16	inch	(4.8 mm)	tempered pattern glass (s)	Unlimited size

Ford Motor Company; Dearborn, Michigan

SGCC- 727	1/8	inch	(3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 728	5/32	inch	(4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 729	3/16	inch	(5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 730	1/4	inch	(6.0 mm)	tempered transparent glass	Unlimited size

Fulton Glass Industries, Inc.; Red Oak, Georgia

SGCC-1130	5/32	inch	(4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1131	3/16	inch	(5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1132	1/4	inch	(6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1212	3/8	inch	(10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1134	1/2	inch	(12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1327	3/16	inch	(4.8 mm)	tempered pattern glass (s)	Unlimited size

**CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**

**MAXIMUM CERTIFIED SIZE**

**Gateway Industries; Rogers, Arkansas**

SGCC-1355	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1356	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1357	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1358	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1359	5/32	inch (4.0 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1394	3/16	inch (4.8 mm)	tempered pattern glass (d)	Unlimited size

**Gemtron Corporation; Sweetwater, Tennessee**

SGCC-1335	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1333	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1202	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size

**General Glass Corporation; Denver, Colorado**

SGCC-1180	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1181	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1182	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**Glass Tempering Service, Inc.; Detroit, Michigan**

SGCC-1389	1/8	inch (3.0 mm)	tempered transparent glass	30" by 76"
SGCC-1238	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1340	3/16	inch (4.8 mm)	tempered pattern glass (s)	34" by 72"

**Glasstemp, Inc.; Bensenville, Illinois**

SGCC-1381	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1382	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1383	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1384	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**Hamilton Glass Products, Inc.; Vincennes, Indiana**

SGCC- 54	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1385	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1200	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 57	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1386	5/32	inch (4.0 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1387	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

**Hehr International, Inc.; Chesaning, Michigan**

SGCC-1062	1/8	inch (3.0 mm)	tempered transparent glass	32" by 60"
-----------	-----	---------------	----------------------------	------------

**Hordis Brothers, Inc.; Warrenton, Missouri**

SGCC-1379	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1380	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size

**Howe-Martz Glass Company; Detroit, Michigan**

SGCC-1265	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1266	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1268	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1269	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1270	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1344	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

**LOF Glass; Laurinburg, North Carolina**

SGCC- 844	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
-----------	-----	---------------	----------------------------	----------------

Continued next page.

**CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**

**MAXIMUM CERTIFIED SIZE**

SGCC- 845	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 846	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 847	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 848	5/16	inch (8.0 mm)	tempered transparent glass	Unlimited size
SGCC- 849	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 850	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

**LOF Glass; Rossford, Ohio**

SGCC- 855	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 856	5/16	inch (8.0 mm)	tempered transparent glass	Unlimited size
SGCC- 857	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 858	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC- 859	5/8	inch (16.0 mm)	tempered transparent glass	Unlimited size
SGCC- 860	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size

**Lear Siegler, Inc.; Wichita, Kansas**

SGCC-1360	3/16	inch (5.0 mm)	laminated transparent glass (0.030)	Unlimited size
SGCC-1343	3/16	inch (5.0 mm)	laminated pattern glass (0.030) (s)	Unlimited size

**Ohio Plate Glass Company; Jefferson, Texas**

SGCC-1281	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1286	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1287	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**Ohio Plate Glass Company; Lewisburg, Ohio**

SGCC-1050	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 185	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 186	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Carlisle, Pennsylvania**

SGCC- 250	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 675	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 249	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Crestline, Ohio**

SGCC- 60	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 927	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Dallas, Texas**

SGCC- 400	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 402	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

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

SGCC- 61	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 70	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Fresno, California**

SGCC- 295	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 676	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 64	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size

**PPG Industries, Inc.; Hunt Valley, Maryland**

SGCC- 454	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 455	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT

MAXIMUM CERTIFIED SIZE

PPG Industries, Inc.; Miami, Florida

SGCC- 195	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 194	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

PPG Industries, Inc.; Wichita Falls, Texas

SGCC-1110	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1111	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1112	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size

PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada

SGCC- 251	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1120	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 209	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size

Rotuba Extruders, Inc.; Linden, New Jersey

SGCC- 316	0.080 inch and greater thicknesses	smooth extruded acrylic	Unlimited size
-----------	------------------------------------	-------------------------	----------------

San Jacinto Glass Company; Houston, Texas

SGCC-1292	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1293	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1294	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1295	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1296	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

Shaw Glass Company, Inc.; South Easton, Massachusetts

SGCC-1034	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1035	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1036	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1037	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1299	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1071	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

Sheffield Plastics, Inc.; Sheffield, Massachusetts

SGCC- 173	0.080 inch through 0.125 inch	smooth extruded acrylic	Unlimited size
-----------	-------------------------------	-------------------------	----------------

Southern Wholesale Glass, Inc.; Marietta, Georgia

SGCC-1230	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1231	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1232	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size

Spectrum Glass Company; Clinton, North Carolina

SGCC-1080	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1081	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1082	5/16	inch (8.0 mm)	tempered transparent glass	Unlimited size
SGCC-1083	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1084	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1085	5/8	inch (16.0 mm)	tempered transparent glass	Unlimited size
SGCC-1086	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size

Sunglas Products, Inc.; Claremore, Oklahoma

SGCC-1365	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC-1366	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1367	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1375	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size

Temp-Tech Industries, Inc.; Chicago, Illinois

SGCC- 986	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
-----------	-----	---------------	----------------------------	----------------

Tempered Glass, Inc.; Atlanta, Georgia

SGCC- 862	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 863	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 865	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 866	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

Tempered Glass Corporation; Tampa, Florida

SGCC-1396	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 832	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 833	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 834	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1329	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1210	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

Tempglass, Inc.; Perrysburg, Ohio

SGCC-1039	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC- 592	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 593	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 594	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 595	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

Tempglass Eastern, Inc.; Norcross, Georgia

SGCC- 979	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1259	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 981	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 982	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1058	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1059	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1338	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

Tempglass Southern, Inc.; Grand Prairie, Texas

SGCC-1219	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1044	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1045	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1046	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

Texas Tempered Glass Company; Houston, Texas

SGCC-1192	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 137	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 669	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1159	7/32	inch (5.5 mm)	laminated transparent glass (0.030)	Unlimited size

Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania

SGCC-1308	1/8	inch (3.0 mm)	tempered transparent glass	Unlimited size
SGCC-1310	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1311	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC-1312	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC-1313	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size

Tuf-flex Glass; Union City, California

SGCC- 879	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
-----------	------	---------------	----------------------------	----------------

Continued next page.

**CERTIFIED PRODUCTS - ALPHABETICAL BY PLANT**

**MAXIMUM CERTIFIED SIZE**

SGCC-1205	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 881	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 882	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC-1149	7/32	inch (5.6 mm)	tempered pattern glass (s)	Unlimited size

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

SGCC-1407	1/8	inch (3.2 mm)	tempered pattern glass (s)	Unlimited size
SGCC-1331	5/32	inch (4.0 mm)	tempered pattern glass (s)	Unlimited size

**Viracon, Inc.; Owatonna, Minnesota**

SGCC-1403	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC-1404	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size

**Virginia Glass Products Corporation; Martinsville, Virginia**

SGCC-1236	5/32	inch (4.0 mm)	tempered transparent glass	Unlimited size
SGCC- 12	3/16	inch (5.0 mm)	tempered transparent glass	Unlimited size
SGCC- 14	1/4	inch (6.0 mm)	tempered transparent glass	Unlimited size
SGCC- 93	3/8	inch (10.0 mm)	tempered transparent glass	Unlimited size
SGCC- 94	1/2	inch (12.0 mm)	tempered transparent glass	Unlimited size
SGCC- 95	3/4	inch (19.0 mm)	tempered transparent glass	Unlimited size
SGCC-1275	3/16	inch (4.8 mm)	tempered pattern glass (s)	Unlimited size

**Virginia Mirror Company, Inc.; Martinsville, Virginia**

SGCC-1305	1/8	inch (3.0 mm)	annealed glass mirror; scrim backed	Unlimited size
SGCC-1306	5/32	inch (4.0 mm)	annealed glass mirror; scrim backed	Unlimited size
SGCC-1307	3/16	inch (5.0 mm)	annealed glass mirror; scrim backed	Unlimited size

\* \* \* \* \*

**CERTIFIED PRODUCTS - BY PRODUCT TYPE**

**MAXIMUM CERTIFIED SIZE**

**TEMPERED TRANSPARENT GLASS**

**1/8 inch tempered transparent glass**

AFG Industries, Inc.; Greenland, Tennessee	SGCC- 598	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC-1390	Unlimited
Chamberlain Manufacturing Corporation; Malvern, Arkansas	SGCC- 586	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 805	Unlimited
Elgin Precision Glass Company, Inc.; Elgin, Illinois	SGCC-1369	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1397	Unlimited
Ford Motor Company; Dearborn, Michigan	SGCC- 727	Unlimited
Gateway Industries; Rogers, Arkansas	SGCC-1355	Unlimited
Gemtron Corporation; Sweetwater, Tennessee	SGCC-1335	Unlimited
Glass Tempering Service, Inc.; Detroit, Michigan	SGCC-1389	30 by 76"
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC- 54	Unlimited
Hehr International, Inc.; Chesaning, Michigan	SGCC-1062	32 by 60"
Hordis Brothers, Inc.; Warrenton, Missouri	SGCC-1379	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 844	Unlimited
Ohio Plate Glass Company; Jefferson, Texas	SGCC-1281	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-1050	Unlimited
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 250	Unlimited
PPG Industries, Inc.; Crestline, Ohio	SGCC- 60	Unlimited
PPG Industries, Inc.; Fresno, California	SGCC- 295	Unlimited
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1110	Unlimited
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	SGCC- 251	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1292	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC-1039	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 979	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1308	Unlimited

**5/32 inch tempered transparent glass**

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC-1176	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 955	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 949	Unlimited
Chamberlain Manufacturing Corporation; Malvern, Arkansas	SGCC-1376	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC-1003	Unlimited
Elgin Precision Glass Company, Inc.; Elgin, Illinois	SGCC-1370	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1339	Unlimited
Ford Motor Company; Dearborn, Michigan	SGCC- 728	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1130	Unlimited
Gemtron Corporation; Sweetwater, Tennessee	SGCC-1333	Unlimited
General Glass Corporation; Denver, Colorado	SGCC-1180	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC-1385	Unlimited
Hordis Brothers, Inc.; Warrenton, Missouri	SGCC-1380	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1265	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 845	Unlimited
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 675	Unlimited
PPG Industries, Inc.; Fresno, California	SGCC- 676	Unlimited
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1111	Unlimited
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	SGCC-1120	Unlimited
Sunglas Products, Inc.; Claremore, Oklahoma	SGCC-1365	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1259	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-1236	Unlimited

**3/16 inch tempered transparent glass**

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC-1157	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 220	Unlimited



**CERTIFIED PRODUCTS - BY PRODUCT TYPE**

**MAXIMUM CERTIFIED SIZE**

**3/16 inch tempered transparent glass - continued**

AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 28	Unlimited
Chamberlain Manufacturing Corporation; Malvern, Arkansas	SGCC-1377	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 806	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 812	Unlimited
Elgin Precision Glass Company, Inc.; Elgin, Illinois	SGCC-1371	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1398	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1352	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC-1010	Unlimited
Ford Motor Company; Dearborn, Michigan	SGCC- 729	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1131	Unlimited
Gateway Industries; Rogers, Arkansas	SGCC-1356	Unlimited
Gemtron Corporation; Sweetwater, Tennessee	SGCC-1202	Unlimited
General Glass Corporation; Denver, Colorado	SGCC-1181	Unlimited
Glasstemp, Inc.; Bensenville, Illinois	SGCC-1381	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC-1200	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1266	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 846	Unlimited
Ohio Plate Glass Company; Jefferson, Texas	SGCC-1286	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 185	Unlimited
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 249	Unlimited
PPG Industries, Inc.; Crestline, Ohio	SGCC- 927	Unlimited
PPG Industries, Inc.; Dallas, Texas	SGCC- 400	Unlimited
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 61	Unlimited
PPG Industries, Inc.; Fresno, California	SGCC- 64	Unlimited
PPG Industries, Inc.; Hunt Valley, Maryland	SGCC- 454	Unlimited
PPG Industries, Inc.; Miami, Florida	SGCC- 195	Unlimited
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1112	Unlimited
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	SGCC- 209	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1293	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1034	Unlimited
Southern Wholesale Glass, Inc.; Marietta, Georgia	SGCC-1230	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1080	Unlimited
Sunglas Products, Inc.; Claremore, Oklahoma	SGCC-1366	Unlimited
Tempered Glass, Inc.; Atlanta, Georgia	SGCC- 862	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC-1396	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 592	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 981	Unlimited
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1219	Unlimited
Texas Tempered Glass Company; Houston, Texas	SGCC-1192	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1310	Unlimited
Tuf-flex Glass; Union City, California	SGCC- 879	Unlimited
Viracon, Inc.; Owatonna, Minnesota	SGCC-1403	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 12	Unlimited

**1/4 inch tempered transparent glass**

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC- 638	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 89	Unlimited
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 24	Unlimited
Accutemp Glass Company; San Antonio, Texas	SGCC-1345	Unlimited
Advanced Coating Technology, Inc.; Franklin, Tennessee	SGCC-1277	Unlimited
Chamberlain Manufacturing Corporation; Malvern, Arkansas	SGCC-1378	Unlimited
Colonial Mirror and Glass Corporation; Brooklyn, New York	SGCC-1165	Unlimited
Downey Glass Company, Inc.; Downey, California	SGCC- 807	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 813	Unlimited

1/4 inch tempered transparent glass - continued		
Elgin Precision Glass Company, Inc.; Elgin, Illinois	SGCC-1372	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1399	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 709	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC- 872	Unlimited
Ford Motor Company; Dearborn, Michigan	SGCC- 730	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1132	Unlimited
Gateway Industries; Rogers, Arkansas	SGCC-1357	Unlimited
General Glass Corporation; Denver, Colorado	SGCC-1182	Unlimited
Glass Tempering Service, Inc.; Detroit, Michigan	SGCC-1238	Unlimited
Glasstemp, Inc.; Bensenville, Illinois	SGCC-1382	Unlimited
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC- 57	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1268	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 847	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 855	Unlimited
Ohio Plate Glass Company; Jefferson, Texas	SGCC-1287	Unlimited
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 186	Unlimited
PPG Industries, Inc.; Dallas, Texas	SGCC- 402	Unlimited
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 70	Unlimited
PPG Industries, Inc.; Hunt Valley, Maryland	SGCC- 455	Unlimited
PPG Industries, Inc.; Miami, Florida	SGCC- 194	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1294	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1035	Unlimited
Southern Wholesale Glass, Inc.; Marietta, Georgia	SGCC-1231	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1081	Unlimited
Sunglas Products, Inc.; Claremore, Oklahoma	SGCC-1367	Unlimited
Temp-Tech Industries, Inc.; Chicago, Illinois	SGCC- 986	Unlimited
Tempered Glass, Inc.; Atlanta, Georgia	SGCC- 863	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC- 832	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 593	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 982	Unlimited
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1044	Unlimited
Texas Tempered Glass Company; Houston, Texas	SGCC- 137	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1311	Unlimited
Tuf-flex Glass; Union City, California	SGCC-1205	Unlimited
Viracon, Inc.; Owatonna, Minnesota	SGCC-1404	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 14	Unlimited
5/16 inch tempered transparent glass		
LOF Glass; Laurinburg, North Carolina	SGCC- 848	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 856	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1082	Unlimited
3/8 inch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC- 639	Unlimited
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 90	Unlimited
Colonial Mirror and Glass Corporation; Brooklyn, New York	SGCC-1166	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 814	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1400	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1280	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC- 873	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1212	Unlimited
Glasstemp, Inc.; Bensenville, Illinois	SGCC-1383	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1269	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 849	Unlimited

**CERTIFIED PRODUCTS - BY PRODUCT TYPE**
**MAXIMUM CERTIFIED SIZE**
**3/8 inch tempered transparent glass - continued**

LOF Glass; Rossford, Ohio	SGCC- 857	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1295	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1036	Unlimited
Southern Wholesale Glass, Inc.; Marietta, Georgia	SGCC-1232	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1083	Unlimited
Sunglas Products, Inc.; Claremore, Oklahoma	SGCC-1375	Unlimited
Tempered Glass, Inc.; Atlanta, Georgia	SGCC- 865	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC- 833	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 594	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1058	Unlimited
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1045	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1312	Unlimited
Tuf-flex Glass; Union City, California	SGCC- 881	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 93	Unlimited

**1/2 inch tempered transparent glass**

ACI Glass Products, Inc.; Santa Fe Springs, California	SGCC- 640	Unlimited
Colonial Mirror and Glass Corporation; Brooklyn, New York	SGCC-1167	Unlimited
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 815	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1401	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 711	Unlimited
Flex-Temp, Inc.; Irving, Texas	SGCC- 874	Unlimited
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1134	Unlimited
Glasstemp, Inc.; Bensenville, Illinois	SGCC-1384	Unlimited
Howe-Martz Glass Company; Detroit, Michigan	SGCC-1270	Unlimited
LOF Glass; Laurinburg, North Carolina	SGCC- 850	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 858	Unlimited
San Jacinto Glass Company; Houston, Texas	SGCC-1296	Unlimited
Shaw Glass Company, Inc.; South Easton, Massachusetts	SGCC-1037	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1084	Unlimited
Tempered Glass, Inc.; Atlanta, Georgia	SGCC- 866	Unlimited
Tempered Glass Corporation; Tampa, Florida	SGCC- 834	Unlimited
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 595	Unlimited
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1059	Unlimited
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1046	Unlimited
Texas Tempered Glass Company; Houston, Texas	SGCC- 669	Unlimited
Traco (Three Rivers Aluminum Company); Warrendale, Pennsylvania	SGCC-1313	Unlimited
Tuf-flex Glass; Union City, California	SGCC- 882	Unlimited
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 94	Unlimited

**5/8 inch tempered transparent glass**

Falconer Glass Industries, Inc.; Falconer, New York	SGCC-1324	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 859	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1085	Unlimited

**3/4 inch tempered transparent glass**

Colonial Mirror and Glass Corporation; Brooklyn, New York	SGCC-1341	Unlimited
Empire Glass, Inc.; Bronx, New York	SGCC-1402	Unlimited
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 712	Unlimited
LOF Glass; Rossford, Ohio	SGCC- 860	Unlimited
Spectrum Glass Company; Clinton, North Carolina	SGCC-1086	Unlimited

# CERTIFIED PRODUCTS - BY PRODUCT TYPE

# MAXIMUM CERTIFIED SIZE

## TEMPERED PATTERN GLASS

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

ACI Glass Products, Inc.; Santa Fe Springs, California  
 AFG Industries, Inc.; Greenland, Tennessee  
 AFG Industries, Inc.; Kingsport, Tennessee  
 Downey Glass Company, Inc.; Downey, California  
 Gateway Industries; Rogers, Arkansas  
 Vidrierias De Llodio, S. A.; Alava, Spain

SGCC-1226 Unlimited  
 SGCC- 587 Unlimited  
 SGCC- 141 Unlimited  
 SGCC- 808 Unlimited  
 SGCC-1358 Unlimited  
 SGCC-1407 Unlimited

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

Downey Glass Company, Inc.; Downey, California

SGCC- 809 Unlimited

### 5/32 inch tempered pattern glass (shallow patterns)

Gateway Industries; Rogers, Arkansas  
 Hamilton Glass Products, Inc.; Vincennes, Indiana  
 Vidrierias De Llodio, S. A.; Alava, Spain

SGCC-1359 Unlimited  
 SGCC-1386 Unlimited  
 SGCC-1331 Unlimited

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

AFG Industries, Inc.; Greenland, Tennessee  
 AFG Industries, Inc.; Kingsport, Tennessee  
 Downey Glass Company, Inc.; Downey, California  
 Downey Glass Company, Inc.; Los Angeles, California  
 Falconer Glass Industries, Inc.; Falconer, New York  
 Flex-Temp, Inc.; Irving, Texas  
 Fulton Glass Industries, Inc.; Red Oak, Georgia  
 Glass Tempering Service, Inc.; Detroit, Michigan  
 Hamilton Glass Products, Inc.; Vincennes, Indiana  
 Howe-Martz Glass Company; Detroit, Michigan  
 Shaw Glass Company, Inc.; South Easton, Massachusetts  
 Tempered Glass Corporation; Tampa, Florida  
 Tempglass Eastern, Inc.; Norcross, Georgia  
 Virginia Glass Products Corporation; Martinsville, Virginia

SGCC-1139 Unlimited  
 SGCC-1143 Unlimited  
 SGCC- 810 Unlimited  
 SGCC-1114 Unlimited  
 SGCC-1330 Unlimited  
 SGCC-1322 Unlimited  
 SGCC-1327 Unlimited  
 SGCC-1340 34 by 72"  
 SGCC-1387 Unlimited  
 SGCC-1344 Unlimited  
 SGCC-1299 Unlimited  
 SGCC-1329 Unlimited  
 SGCC-1338 Unlimited  
 SGCC-1275 Unlimited

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

Gateway Industries; Rogers, Arkansas

SGCC-1394 Unlimited

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

ACI Glass Products, Inc.; Santa Fe Springs, California  
 Downey Glass Company, Inc.; Downey, California  
 Downey Glass Company, Inc.; Los Angeles, California  
 Shaw Glass Company, Inc.; South Easton, Massachusetts  
 Tempered Glass Corporation; Tampa, Florida  
 Tuf-flex Glass; Union City, California

SGCC- 641 Unlimited  
 SGCC- 811 Unlimited  
 SGCC- 817 Unlimited  
 SGCC-1071 Unlimited  
 SGCC-1210 Unlimited  
 SGCC-1149 Unlimited

## LAMINATED GLASS

### 3/16 inch laminated transparent glass

Lear Siegler, Inc.; Wichita, Kansas

SGCC-1360 Unlimited

### 7/32 inch laminated transparent glass

Texas Tempered Glass Company; Houston, Texas

SGCC-1159 Unlimited

## LAMINATED PATTERN GLASS

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

Lear Siegler, Inc.; Wichita, Kansas

SGCC-1343 Unlimited

# CERTIFIED PRODUCTS - BY PRODUCT TYPE

# MAXIMUM CERTIFIED SIZE

## SAFETY PLASTIC SHEET

0.080 inch and greater thicknesses acrylic

Rotuba Extruders, Inc.; Linden, New Jersey

SGCC- 316 Unlimited

0.080 through 0.125 inch acrylic

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

Sheffield Plastics, Inc.; Sheffield, Massachusetts

SGCC- 118 Unlimited

SGCC- 173 Unlimited

## ANNEALED GLASS MIRROR

1/8 inch annealed glass mirror; scrim backed

Virginia Mirror Company, Inc.; Martinsville, Virginia

SGCC-1305 Unlimited

5/32 inch annealed glass mirror; scrim backed

Virginia Mirror Company, Inc.; Martinsville, Virginia

SGCC-1306 Unlimited

3/16 inch annealed glass mirror; scrim backed

Virginia Mirror Company, Inc.; Martinsville, Virginia

SGCC-1307 Unlimited

\* \* \* \* \*

## SGCC LABEL REQUIREMENTS

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

The label shall contain the correct SGCC number, the nominal thickness and reference to the 16 CFR 1201 standard in the following minimum form: 16 CFR 1201 and the category to which it pertains. Acceptable examples include: 16 CFR 1201 I and II, 16 CFR 1201 I or II, 16 CFR 1201 I & II, 16 CFR 1201 CAT I & II, 16 CFR 1201 C I & II, 16 CFR 1201 C I and 16 CFR 1201 C II.

For labeling purposes, a line of demarcation shall separate those standards covered by the SGCC number from any other standards the licensee wishes to reference.

For purposes of Guideline G.6 "SGCC-xxx/yyy" shall be the only correct designation other than "SGCC-xxx" and "SGCC-yyy" when an identical item is in both the ANSI and CPSC programs. (See examples below.)

"Any glazing material that for accelerated environmental durability tests meets only the requirements of 1201.4 (e)(ii)(c) entitled "Plastic (indoor service)" shall bear the statement "INDOOR USE ONLY" as a part of the permanent label." Quoted from 16 CFR 1201.

"Organic-coated glass that has been tested for environmental exposure from one side only must bear a permanent label on the coating stating "GLAZE THIS SIDE IN" and shall bear in the central 50 percent of the surface in letters at least 1/4 inch high: "SEE PERMANENT LABEL FOR IMPORTANT MOUNTING INSTRUCTIONS". The latter message shall be attached to either side of the glazing by any means which shall ensure the message will remain in place until installation." Quoted from 16 CFR 1201.

The permanent label must contain identification of the plant in which the product was made and the name or trade mark of the licensee. (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 licensee's own manufacture, which are certified in the SGCC program.

The permanent label must not be sold, transferred or otherwise disposed of in any manner other than being affixed to the licensee's certified production.

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

### EXAMPLES:

16 CFR 1201 II  
ANSI Z97.1-1984  
SGCC-123/691 1/4 U

ANSI Z97.1-1984 SGCC-123 1/4 U  
16 CFR 1201 II SGCC-691


ACI GLASS PRODUCTS, INC.  
9010 South Norwalk Boulevard  
Santa Fe Springs, California 90670

**CAL TEMP**  
ANSI-Z 97.1-1975  
16 CFR 1201 CAT. II  
1/4 U-SGCC-638  
SFS-1

CHAMBERLAIN MANUFACTURING CORPORATION  
P. O. Box H  
Hot Springs, Arkansas 71901

**SAFETY PANE**  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1975 SGCC 586 1/8U  
16 CFR 1201 I & II

AFG INDUSTRIES, INC.  
P. O. Box 929  
Kingsport, Tennessee 37662

  
**TEMPERED**  
16 CFR 1201.C.II  
ANSI Z97.1 1975  
1/4U SGCC-24  
AFG 001

COLONIAL MIRROR AND GLASS CORPORATION  
142 19 Street  
Brooklyn, New York 11232

COLONIAL MIRROR & GLASS CORP.  
SAFETY TEMPERED GLASS  
GLAS STEEL 1/2' U  
ANSI-Z-97-1-1975  
16 CFR 1201-I, II, -SGCC-1167

ACCUTEMP GLASS COMPANY  
Route 10; Box 82P  
San Antonio, Texas 78216

DOWNEY GLASS COMPANY, INC.  
5631 Ferguson Drive  
Los Angeles, California 90022

TENTATIVE LABEL

**ACCUTEMP**  
Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-1345 1/4 U



ADVANCED COATING TECHNOLOGY, INC.  
306 Beasley Drive  
Franklin, Tennessee 37064

**ACT**  
ANSI-Z97.1-1975  
16 CFR-1201-II  
S.G.C.C. 1277 1/4"-U

ELGIN PRECISION GLASS COMPANY, INC.  
1200 Abbott Drive  
Elgin, Illinois 60120

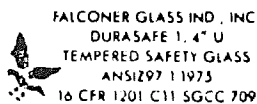
**EPI**  
ANSI Z97.1-1975  
16 CFR 1201 CAT. II  
SGCC 1369 1/8U

EMPIRE GLASS, INC.  
608 East 133 Street  
Bronx, New York 10454

TENTATIVE LABEL

EMPIRE  
Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-1399 1/4 U

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



FORD MOTOR COMPANY GLASS DIVISION  
300 Renaissance Center; P. O. Box 43343  
Detroit, Michigan 48243



FULTON GLASS INDUSTRIES, INC.  
5225 Welcome All Road  
Red Oak, Georgia 30272

FULTONTEMP  
SGCC 1134 1/2" U  
16 CFR 1201-II  
SGCC 1127  
ANSI Z97.1 1975



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



FLEX-O-GLAZE™  
ACRYLIC SAFETY GLAZING  
16 CFR 1201 CII  
.100U  
ANSI Z97.1-75 SGCC-118

GATEWAY INDUSTRIES  
1414 South First Street  
Rogers, Arkansas 72756

GW1  
TEMPERED  
ANSI Z97.1-1975  
16CFR1201-II  
SGCC-1335 1/8 U  
DOT 272 AS2 MI



FLEX-TEMP, INC.  
2120 Vanco Drive  
Irving, Texas 75061

TENTATIVE LABEL

FLEX-TEMP  
Tempered Safety Glass  
16 CFR 1201 II  
SGCC-872 1/4 U

GEMTRON CORPORATION  
New Highway 68; P. O. Box 416  
Sweetwater, Tennessee 37874

+

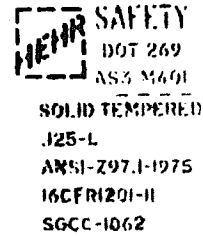
TEMPERED  
16CFR 1201 CII  
ANSI Z97.1 1975  
3/16 U - SGCC-1201/1202  
GEMTRON 013 1981



GENERAL GLASS CORPORATION  
P. O. Box 38711  
Denver, Colorado 80238



HEHR INTERNATIONAL, INC.  
1103 West Pearl Street  
Chesaning, Michigan 48616



GLASS TEMPERING SERVICE, INC.  
14285 Wyoming Street  
Detroit, Michigan 48238

**GTS**  
SAFETY TEMPERED  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC-1238 1/4 U

HORDIS BROTHERS, INC.  
P. O. Box 368  
Warrenton, Missouri 63383

TENTATIVE LABEL

HORDIS BROTHERS  
Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-1379 1/8 U

GLASSTEMP, INC.  
1001 Foster Avenue  
Bensenville, Illinois 60106

**GLASSTEMP**  
ANSI Z97.1-1975  
16 CFR 1201C II  
SGCC-1382  
1/4\"/>

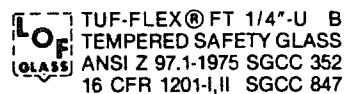
HOWE-MARTZ GLASS COMPANY  
14291 Meyers Road  
Detroit, Michigan 48227

**FLO H TUF**  
TEMPERED SAFETY GLASS  
16 CFR 1201 CII  
ANSI Z97.1-1975 1/4U  
SGCC 1268

HAMILTON GLASS PRODUCTS, INC.  
2000 Chestnut Street; P. O. BOX 317  
Vincennes, Indiana 47591

**TEMPER TUF**  
HAMILTON GLASS PRODUCTS  
ANSI Z97.1 - 1975  
1/4 U SGCC - 57  
16 CFR 1201 C II

LOF GLASS  
LIBBEY-OWENS-FORD COMPANY  
811 Madison Avenue  
P. O. Box 799  
Toledo, Ohio 43695



LEAR SIEGLER, INC.  
P. O. Box 1879  
Wichita, Kansas 67201



SAFELITE® SGCC-1360  
LAMINATED 3/16 U  
ANSI Z97.1-1975  
16CFR1201-II

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

ROTUBAGLAZ® 16 CFR 1201, I/II  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1975  
SGCC-316 .080U

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

TEMPERED  
SGCC 105  
OHIO PLATE  
3/16"-U 16CFR1201-II  
ANSI Z97.1-1975  
12 B3 HL

SAN JACINTO GLASS COMPANY  
900 Broadway  
Houston, Texas 77012

**Starlite**

HORIZONTALLY TEMPERED  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC 1292 1/8"U  
SAN JACINTO GLASS CO  
HOUSTON TEXAS

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

PPG HERCULITE K  
TEMPERED SAFETY GLASS  
16CFR1201 CII  
ANSI Z-97.1-1975 1/8"U  
SGCC-295 B5H 367H

SHAW GLASS COMPANY, INC.  
55 Bristol Drive  
South Easton, Massachusetts 02375

SOLAR TEMP  
16 CFR 1201 II

ANSI Z 97.1 1975  
1/4 U SGCC 1035

PPG INDUSTRIES CANADA, LTD.  
1299 20th Street, East  
Owen Sound, Ontario, Canada N4K 2C3

PPG HERCULITE K  
TEMPERED TREMPÉ  
CAN2-12.1 DOT 165  
.....  
16 CFR 1201 C11  
ANSI Z97.1-1975  
SGCC-209 5.0mm U  
840181

SHEFFIELD PLASTICS, INC.  
Salisbury Road  
Sheffield, Massachusetts 01257

ACRY-PANE  
ANSI Z97.1-1975  
16CFR 1201 II  
SGCC 173  
K2497 .095U

SOUTHERN WHOLESALE GLASS, INC.  
3200 Austell Road  
Marietta, Georgia 30060



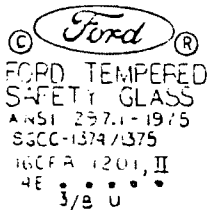
SOUTHERN TEMP.  
ANSI Z97.1-1975  
16 CFR 1201-CII  
SGCC 1230 3/16" U

SPECTRUM GLASS COMPANY  
East Railroad Street; P. O. Box 408  
Clinton, North Carolina 28328

TUF-FLEX® FT 1/4" U  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1975 SGCC-1074  
16 CFR 1201-I, II SGCC-1081

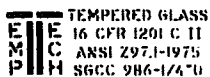


SUNGLAS PRODUCTS, INC.  
c/o Ford Motor Company Glass Division  
300 Renaissance Center; P. O. Box 43343  
Detroit, Michigan 48243



FORD TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1975  
SGCC-1374/1375  
16 CFR 1201, II  
4E 3/8" U

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



TEMPERED GLASS  
16 CFR 1201 C II  
ANSI Z97.1-1975  
SGCC 986-1/4" U

TEMPERED GLASS, INC.  
7160 Delta Circle  
Austell, Georgia 30001

- Tuf-flex Glass FT 1/4" U G •
- TEMPERED SAFETY GLASS •
- ANSI Z97.1-1975 16 CFR 1201-I&II •
- SGCC-321 SGCC-863 •

TEMPERED GLASS CORPORATION  
6900 Adamo Drive  
Tampa, Florida 33619

TEMCO  
SGCC-338 .500U  
SGCC-834  
16 CFR 1201-II  
ANSI Z97.1 1975

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

TEMPGLASS, INC.  
16 CFR 1201 CII  
ANSI Z97.1-1975  
SGCC 594  
3/8" U (1)

TEMPGLASS EASTERN, INC.  
Blueridge Industrial Park  
P. O. Box 928  
Norcross, Georgia 30071

TEMPGLASS  
EASTERN  
ANSI Z97.1-1975  
16 CFR 1201-II  
SGCC-979 1/8" U  
03 83

TEMPGLASS SOUTHERN, INC.  
1101 Fountain Parkway  
Grand Prairie, Texas 75050

TEMPGLASS SOUTHERN  
ANSI Z97.1 - 1975  
SGCC 1046 1/2" U  
16 CFR 1201 - 11

TEXAS TEMPERED GLASS COMPANY  
1331 West Belt Drive North  
Houston, Texas 77024

TENTATIVE LABEL

TEXAS TEMPERED  
Tempered Safety Glass  
ANSI Z97.1-1984  
16 CFR 1201 II  
SGCC-669 1/2 U

TRACO  
Cranberry Industrial Park  
P. O. Box 805  
Warrendale, Pennsylvania 15095



TRACO VIEW-SAFE  
TEMPERED GLASS  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC-1308 1/8U

TUF-FLEX GLASS  
LIBBEY-OWENS-FORD COMPANY  
P. O. Box 799  
Toledo, Ohio 43695

- Tuf-flex Glass FT 1/4"-U H •
- TEMPERED SAFETY GLASS •
- ANSI Z97.1-1984 16 CFR 1201-1&11 •
- SGCC-1204 SGCC-1205 •

VIDRIERIAS DE LLODIO, S. A.  
c/o Guardian Industries Corp.  
43043 West Nine Mile Road  
Northville, Michigan 48167



1/8" U SGCC-1407  
tempered glass  
16 CFR 1201 II  
LLODIO-SPAIN

VIRACON, INC.  
800 Park Drive; P. O. Box 248  
Owatonna, Minnesota 55060

VIRACON  
TEMPERED  
16 CFR 1201 II  
SGCC 1404 1/4" U  
ANSI Z97.1 1984  
1 85

VIRGINIA GLASS PRODUCTS CORPORATION  
P. O. Box 5431  
Martinsville, Virginia 24115



VIRGINIA MIRROR COMPANY, INC.  
P. O. Box 5431  
Martinsville, Virginia 24115

VIRGINIA MIRROR COMPANY, INC.  
SCRIM-BACKED ANNEALED MIRROR  
16 CFR 1201 II  
3/16" U SGCC 1307  
INDOOR USE ONLY  
CLOSET DOOR APPLICATIONS

## SGCC APPROVED TESTING LABORATORIES

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

ETL Testing Laboratories, Inc.  
5855 P Oakbrook Parkway  
Norcross, Georgia 30093  
Attention: Mr. Burr Bachler  
Telephone 404-446-7294

ETL Testing Laboratories, Inc.  
Route 11 Industrial Park  
Cortland, New York 13045  
Attention: Mr. Claude F. Robb  
Telephone 607-753-6711

Inspection and Research Laboratory, Inc.  
4749 West State Street; Building H  
Ontario, California 91761  
Attention: Mr. W. Bradford Smith  
Telephone 714-591-1789

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

Southwestern Laboratories  
2900 Cullen Street; P. O. Box 1379  
Fort Worth, Texas 76101  
Attention: Mr. Wayne Tessener  
Telephone 817-332-5181

United States Testing Company, Inc.  
1415 Park Avenue  
Hoboken, New Jersey 07030  
Attention: Mr. James E. Fuller  
Telephone 201-792-2400

★ ★ ★ ★ ★

## PROCEDURAL GUIDE

### FOREWORD

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 Federal Standard 16 CFR 1201 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 that provides an independent third party certification and testing program. 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 licensees.

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 licensees 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 Federal Standard 16 CFR 1201 covering safety glazing materials used in buildings.

These regulations are covered in a separate certified products directory.

#### WHO CAN BECOME A LICENSEE?

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

#### WHO CONDUCTS THE PROGRAM?

The Safety Glazing Certification Council, a non-profit corporation, is the sponsor of 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 16 CFR 1201.

### 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 LICENSEE?

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

- a) The manufacturer signs two copies of the SGCC License Agreement (including notarization of the Affidavit, Appendix A) and sends these to SGCC. SGCC will countersign both copies and return one to the manufacturer.
- b) The manufacturer directs the testing laboratory to send to SGCC one copy of a valid test report from an official SGCC recognized testing laboratory indicating full and complete compliance with the specifications, namely 16 CFR 1201. (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 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 licensee 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

SGCC recognized independent 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 licensee. 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.

Licensees label safety glazing material with the assigned SGCC number.

## 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 licensee's 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 licensee'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 licensee 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 licensee 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 \$350 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 licensee 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 licensee at any time.

### COSTS

#### WHAT DOES THE PROGRAM COST?

The licensee pays all projected fees to SGCC on a six-month basis, in advance. A licensee 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 licensee 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:

\$610 administrative fee plus \$30 contingency fund fee per six months plus necessary laboratory fees for the first item at a plant for the CPSC program.

\$86 administrative fee plus \$15 contingency fund fee per six months plus necessary laboratory fees for each subsequent item at the same plant for the CPSC program.

\$751 administrative fee plus \$30 contingency fund fee per six months plus necessary laboratory fees for the first item at a plant for the composite program.

\$103 administrative fee plus \$15 contingency fund fee per six months plus necessary laboratory fees for each subsequent item at the same plant for the composite program.



## CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS

### LICENSE AGREEMENT

This agreement, incorporating independent program administration and routine, periodic independent sampling and evaluation, governs the relationship between SGCC and the licensee.

Future amendments or revisions to the license agreement will be recommended by the SGCC certification committee and enacted by the SGCC board of directors.

### EFFECTIVE DATE, DURATION AND TERMINATION

The license agreement 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 the 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 licensee 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 licensee 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 licensee does not notify SGCC within one week of the resumption of production the bond is forfeited to SGCC.

### ADMINISTRATIVE SERVICE AGREEMENT

This agreement, entered into by SGCC and 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 required by the program
- 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 licensees, 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 administrative service agreement, for the guidance of those concerned with the procedural details of the certification program. It covers the steps to be taken in any given procedural situation in the interest of equitable and uniform treatment of licensees 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 licensee.

## CERTIFICATION LABEL

This certification mark is permanently affixed to each piece of certified safety glazing material by the licensee. It contains a number 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 corporate legal 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 licensee 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:

Mr. Richard L. Morrison, SGCC President  
c/o Ford Motor Company Glass Division  
300 Renaissance Center; P. O. Box 43343  
Detroit, Michigan 48243  
Telephone 716-665-6422

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

Mr. Robert A. Moss, Chairman  
SGCC Certification Committee  
c/o Hamilton Glass Products, Inc.  
2000 Chestnut Street  
P. O. Box 317  
Vincennes, Indiana 47591  
Telephone 812-882-2680

## 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 16 CFR 1201 will be accepted from any testing laboratory approved by the SGCC certification committee.

#### G.3       None

#### G.4

For insulating glass units to be considered safety glazing material, each light in the construction must be of safety glazing material.

#### G.5

The SGCC item number when used as part of a permanent label designates the name of the licensee (participant) and also the location of the manufacturing plant 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 label shall contain the correct SGCC number, the nominal thickness, and reference to the 16 CFR 1201 standard in the following minimum form: 16 CFR 1201 and the category to which it pertains.

For labeling purposes, a demarcation line shall separate those standards covered by the SGCC number from any other standards the licensee wishes to reference.

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

#### G.7       None

#### G.8

After initial compliance with a sample size as stated in the standard, testing of other sizes which represent the sizes manufactured may be allowed, provided however that all sizes produced up to the size provided in the standard 16 CFR 1201 are exposed to selection for testing.

#### G.9

Specimen sizes up to 34 inches by 77 inches shall be valid samples when independently obtained by the administrator for purposes of routine evaluation.

#### G.10

In cases where the administrator samples and identifies specimens for routine evaluation on the licensee's premises or requests licensee's samples when none are available at the time of sampling:

- a) The licensee be permitted 6 weeks in which to effect delivery of said specimens to the administrator's designated testing laboratory.
- b) Failure to act as specified above shall be construed by the administrator as failure of the said specimens to comply with the specifications and the administrator shall act as provided for in license agreement A.6.

#### G.11

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

- a) Written notice and an invoice shall be sent to the licensee by the administrator stating that within 30 days from the date of such notice the licensee must submit a retest sample to the testing laboratory designated by the administrator.

Certification shall be removed if the sample and payment are not received within the allotted 30 days or if the sample submitted fails to comply with the specifications.

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

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

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

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

#### G.12

If a licensee who manufactures a certified product outside the 48 contiguous states feels that in a particular instance that he will be unable to act as provided for in paragraph a) of SGCC Guideline G.11, he should notify the administrator. The administrator will then contact the chairman of the certification committee for a decision as to what action is to be taken.

#### G.13

In cases where a certified item is produced infrequently or in small quantities so as to make it difficult for the administrator to obtain routine evaluation samples, the licensee shall notify the administrator at least two weeks in advance of any production of such item.

G.14

The administrator shall remove certification from all of any licensee's products for failure to pay any monies due to SGCC within 30 days of invoice date. (Reference license agreement A.2, A.12 and B.6.)

G.15

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

G.16

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

G.17

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

G.18

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

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

G.19

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

G.20

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

G.21

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

G.22

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

- a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.
- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the test requirements of 16 CFR 1201 for each alternate pattern proposed.

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

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

In the case where a routine evaluation sample covered under a blanket certification fails to comply with the specifications the situation requires that 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 licensee may desire to retain certification during the shutdown period. This shall be done as follows:

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

b) The SGCC administrator will immediately supply the licensee with test release bond forms for submission by the licensee. A separate bond shall be submitted for each certified product affected.

c) Within 2 weeks after receipt of the bond forms, the licensee shall submit them to the SGCC administrator.

d) During the period covered by the bond the licensee shall retain certification, contingent upon payment of normal certification fees and meeting all other licensee obligations. Bonds will terminate 90 days after acceptance by SGCC but may be renewed by the licensee any number of times. Renewal is an obligation of the licensee and requires all steps listed herein.

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

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

#### G.24

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

G.25        None

#### G.26

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

G.27

A licensee, by executing a supplementary license agreement, can elect to be in both 16 CFR 1201 and ANSI Z97.1-1984 programs under one SGCC number provided the licensee submits four specimens to be impact tested to ANSI Z97.1-1984 and one specimen to be impact tested to 16 CFR 1201 (all safety glazing materials that are not symmetrical from surface to surface, shall be impacted one specimen on one side and one specimen on the other side for 16 CFR 1201). If any one specimen of the composite sample fails, the entire composite sample will be considered to have failed to comply with both specifications.

G.28

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

G.29

For the purposes of certification, the thickness requirements of Federal Specification DD-G-451d shall apply.

G.30

For certification purposes, the minimum thickness shall be 0.092 and the maximum thickness shall be 0.108 inches for 0.100 inch glass.

G.31

For certification purposes, the nominal thickness of single strength pattern glass shall be 0.094 inches and thickness tolerances shall be plus 0.047 inches and minus 0.015 inches.

G.32

When testing to category II requirements, the administrator shall select specimens greater than 9 square feet in surface area.

## TEMPERED TRANSPARENT GLASS

T.1

Four specimens shall be used for impact testing as detailed in 16 CFR 1201.4(a)(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 glass is normally not available for sampling, the licensee may make an overrun (of four lights of prototype size that are to be marked with the date of production) when the item is in normal production and these will be accepted by the administrator if other samples are not available. Otherwise, when production samples are not available the administrator shall notify the licensee to submit prototype size samples to the administrator within six weeks.

#### T.5

Certification of any nominal thickness of tempered safety plate, float or sheet glass will also cover the other two types. 16 CFR 1201 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.

### TEMPERED PATTERN GLASS

#### TP.1

Four specimens shall be used for impact testing as detailed in 16 CFR 1201.4(a)(1). For the purposes of certification, the nominal thickness of patterned, figured, or rough rolled glass are the common fractions found in DD-G-451d. The permanent label must contain this fraction or a metric or decimal dimension within the tolerance of this thickness as published in DD-G-451d.

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

<u>Pattern depth class</u>	<u>Ratio</u>
Shallow pattern glass	0.90 or above
Medium pattern glass	0.80 through 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 licensee has a certified product in that thickness and class, the new pattern may, at the request of the licensee, be included under the same SGCC certification number.

In the case of 5/32 inch tempered pattern glass refer to DD-G-1403b because this thickness is not included in DD-G-451d.

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

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

#### TP.2

The maximum thickness shall be recorded when measuring the thickness of 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 16 CFR 1201 test purposes.

#### TP.4

For certification purposes, the nominal thickness of 210 tempered pattern glass shall be 0.210 inches and thickness tolerances shall be plus 0.031 inches and minus 0.016 inches.

#### TP.5

When medium pattern glass is not available for routine sampling, the licensee submitted specimens must be a medium pattern (a shallow pattern is not acceptable).

#### TP.6

When deep pattern glass is not available for routine sampling, the licensee submitted specimens must be a deep pattern (shallow or medium patterns are not acceptable).



## LAMINATED GLASS

### L.1

Four specimens shall be used for impact testing as detailed in 16 CFR 1201.4(a)(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 licensee may make an overrun (of four lights of prototype size that are to be marked with the date of production) when the item is in normal production and these will be accepted by the administrator if other samples are not available. Otherwise, when production samples are not available the administrator shall notify the licensee to submit prototype size samples to the administrator within six weeks.

### L.3

Certification of 7/32 inch laminated glass also covers SS/DS and vice versa.

### L.4

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

### L.5

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

### L.6

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

### L.7

For certification purposes the following thickness tolerances shall be used: Thickness tolerance shall apply only to the overall thickness. The plus tolerance shall be the sum of all the individual plus tolerances of each layer of the laminate. The minus tolerance shall be the sum of all of the individual minus tolerances of each layer of the laminate. Polyurethane interlayer shall have a thickness tolerance of plus or minus 0.015 inches.

The tolerance of the polyvinylbutyral (PVB) shall be based on the nominal thickness of the interlayer with a plus tolerance of 0.002 and a minus tolerance of 0.004 inches.

### L.8

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

### L.9

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

## PLASTICS - GENERAL

### P.1

One piece of at least one square foot area shall be used for testing the hardness and modulus of elasticity. 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 evaluation samples are to be selected by the administrator from any of the certified thicknesses.

P.3

The following thickness tolerances shall be used for certification purposes:

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

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

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

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

P.4

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

P.5

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

PLASTICS - EXTERIOR USE

PE.1

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

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

10 kilo-calories per square centimeter) of irradiation. Evaluate the test results by using the test criteria set forth in the Standard at section 1201.4(e)(2)(ii)(A) or (B), as appropriate.

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

PE.2        None

PE.3

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

PE.4

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

PLASTICS - INDOOR USE ONLY

PI.1

Sheet plastics used in indoor applications only, must comply with Table 1 in the standard.

PI.2

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

PI.3

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

ORGANIC COATED GLASS

AG.1

Four specimens shall be used for impact testing as detailed in 16 CFR 1201.4(a)(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        None

\* \* \* \* \*

Copies of the Standard 16 CFR 1201 may be obtained from:

Consumer Products Safety Commission  
5401 Westbard Avenue  
Bethesda, Maryland 20016

\* \* \* \* \*

## ADDITIONS:

## Empire Glass, Inc.; Bronx, New York

SGCC-1397	1/8	inch tempered transparent glass	Unlimited size
SGCC-1398	3/16	inch tempered transparent glass	Unlimited size
SGCC-1399	1/4	inch tempered transparent glass	Unlimited size
SGCC-1400	3/8	inch tempered transparent glass	Unlimited size
SGCC-1401	1/2	inch tempered transparent glass	Unlimited size
SGCC-1402	3/4	inch tempered transparent glass	Unlimited size

## Hamilton Glass Products, Inc.; Vincennes, Indiana

SGCC-1385	5/32	inch tempered transparent glass	Unlimited size
SGCC-1386	5/32	inch tempered pattern glass (s)	Unlimited size
SGCC-1387	3/16	inch tempered pattern glass (s)	Unlimited size

## Tempered Glass Corporation; Tampa, Florida

SGCC-1396	3/16	inch tempered transparent glass	Unlimited size
-----------	------	---------------------------------	----------------

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

SGCC-1407	1/8	inch tempered pattern glass (s)	Unlimited size
-----------	-----	---------------------------------	----------------

## Viracon, Inc.; Owatonna, Minnesota

SGCC-1403	3/16	inch tempered transparent glass	Unlimited size
SGCC-1404	1/4	inch tempered transparent glass	Unlimited size

## DELETIONS:

## J. E. Berkowitz, Inc.; Westville, New Jersey

SGCC-1276	1/8	inch tempered transparent glass	Unlimited size
SGCC-1272	1/4	inch tempered transparent glass	Unlimited size
SGCC-1273	3/8	inch tempered transparent glass	Unlimited size
SGCC-1274	1/2	inch tempered transparent glass	Unlimited size

## Hamilton Glass Products, Inc.; Vincennes, Indiana

SGCC-1179	210	inch tempered pattern glass (s)	Unlimited size
-----------	-----	---------------------------------	----------------

## Northwestern Industries, Inc.; Seattle, Washington

SGCC- 701	1/8	inch tempered transparent glass	Unlimited size
SGCC- 702	5/32	inch tempered transparent glass	Unlimited size
SGCC- 703	3/16	inch tempered transparent glass	Unlimited size
SGCC- 704	1/4	inch tempered transparent glass	Unlimited size
SGCC-1257	3/8	inch tempered transparent glass	Unlimited size
SGCC-1258	1/2	inch tempered transparent glass	Unlimited size
SGCC- 920	5/32	inch tempered pattern glass (m)	Unlimited size
SGCC- 707	7/32	inch tempered pattern glass (s)	Unlimited size

## Tempglass, Ltd.; Weston, Ontario, Canada

SGCC-1354	1/8	inch tempered transparent glass	Unlimited size
SGCC-1095	1/4	inch tempered transparent glass	Unlimited size
SGCC-1089	3/8	inch tempered transparent glass	Unlimited size
SGCC-1090	1/2	inch tempered transparent glass	Unlimited size
SGCC-1373	5/32	inch tempered pattern glass (s)	Unlimited size

## Tempglass Eastern, Inc.; Norcross, Georgia

SGCC- 987	1/8	inch tempered pattern glass (s)	Unlimited size
-----------	-----	---------------------------------	----------------

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

SGCC- 912	3/16	inch tempered transparent glass	Unlimited size
SGCC- 913	7/32	inch tempered transparent glass	Unlimited size
SGCC-1353	3/16	inch tempered pattern glass (s)	Unlimited size





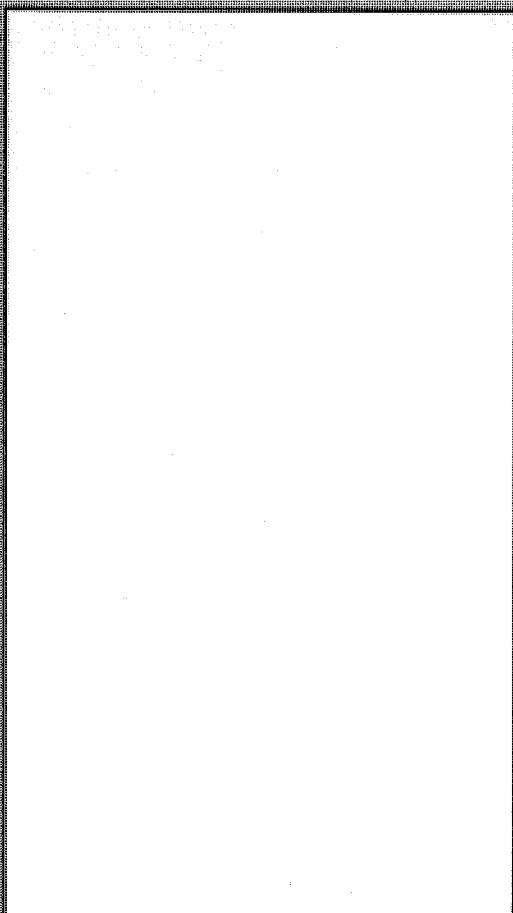
**safety glazing certification council**

1640 West 32 Place  
Hialeah, Florida 33012-4510

NON-PROFIT ORGANIZATION  
U.S. POSTAGE  
**PAID**  
HIALEAH, FLORIDA  
Permit Number 256

**THIRD CLASS MAIL**

to



**ADDRESS CORRECTION REQUESTED**

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