

**JULY 1, 1980**



**safety glazing certification council**

**ANSI**  
**certified products directory**  
safety glazing material used in buildings

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## **PROGRAM CONCEPT**

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

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

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

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

Every manufacturer of safety glazing material is eligible and encouraged to apply for certification. However, his products are not accepted and certified until an independent laboratory test indicates compliance with the standard. Once certified, each product is assigned 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 re-evaluation reports SGCC authorizes continued use of the certification label and the product listing published in this directory.

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

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

## MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Safety Glazing Certification Council met on April 23 and 24, 1980. Interested persons may obtain minutes of this meeting by writing to the Safety Glazing Certification Council.

\* \* \* \* \*

Certification in this directory is up-to-date as of July 1, 1980; 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:

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# ROSTER

April, 1980

## SGCC BOARD OF DIRECTORS

### Representing Public Interest

Mrs. Jean Cornwell, Consumer  
Phil Dykstra, National Safety Council  
Richard C. Elstner, Wiss, Janney, Elstner  
Mrs. Sylvia Lav, Consumer  
Joseph E. Minor, Texas Tech University  
Orville L. Pierson, Consumer

### Representing Industry

Robert L. Brown, Virginia Glass Products  
Gene Gilbert, Ohio Plate Glass Company  
Robert D. Lauter, Tuf-flex Glass  
Donald J. Vild, Libbey-Owens-Ford Company  
Harold G. Warp, Flex-O-Glass  
Leigh T. Yates, Falconer Glass Industries

Honorary Non-voting Member: Norman Nitschke

### SGCC Officers

Robert L. Brown, President  
Gene Gilbert, Vice President  
Orville L. Pierson, Vice President  
Joseph E. Minor, Secretary  
Robert D. Lauter, Assistant Secretary  
Mrs. Jean Cornwell, Treasurer

## SGCC CERTIFICATION COMMITTEE

Irvin D. Fintel, Chairman

Harold G. Warp, Vice-chairman

### Licenses

AFG Industries, Inc.  
Ardco, Inc.  
C-E Glass  
Canadian Pittsburgh Industries  
Central Glass Company  
Chromalloy-Safetee  
Downey Glass Company  
Falconer Glass Industries  
Feather-lite  
Flex-O-Glass, Inc.  
Ford Motor Company  
General Glass Corporation  
Guardian Industries Corporation  
Hamilton Glass Products  
LOF Glass, Inc.  
Libbey-Owens-Ford Company  
Northwestern Industries  
Ohio Plate Glass Company  
PPG Industries, Inc.  
Plaskolite, Inc.  
Rotuba Extruders, Inc.  
Sheffield Plastics, Inc.  
Tempered Glass Corporation  
Tempglass, Inc.  
Tempglass Western, Inc.  
Temp-Safe, Inc.  
Temp-Tech Industries  
Texas Tempered Glass Company  
Tuf-flex Glass, Inc.  
Virginia Glass Products

### Primary Member

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Avery C. Fried  
Harold G. Warp  
Richard L. Morrison  
Paul Toltz  
Charles J. Cocagne  
Robert A. Moss  
Donald J. Vild  
Donald J. Vild  
Norman G. Heutmacker  
Gene Gilbert  
Richard T. McGuire  
William Klimek  
Albert M. Bell  
Thomas Kradel  
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Robert B. Cobie  
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Bart Semeraro  
Hugh France  
Robert D. Lauter  
Robert L. Brown

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Robert W. Hickey  
W.C. Clanahan  
Takayoshi Sakaida  
Steve Zabetakis  
Bernard Puttler  
Leigh T. Yates  
  
Delbert Christensen  
Robert Lemkuhl  
  
Pat Weatherholt  
Gary L. Tate  
Sam E. Baldwin  
Sam E. Baldwin  
Timothy J. McQuade  
John Barr  
Charles R. Sutermeister  
Luis Weil  
Eugene E. Drood  
Bernard W. Brooks  
Howard Bienenfeld  
James C. Clark  
  
Thomas D. Boicey  
Brooks R. Leavitt

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Richard T. McGuire  
  
Joseph D. Pinsky  
Richard H. Turner  
  
Robert Hayes  
Ronald Purdue  
A. William Lingnell, III  
A. William Lingnell, III  
  
Robert G. Spindler  
  
David P. Moorhead  
  
Edward Mullery  
Donald J. Vild  
A.P. Stillman

### Members by virtue of being a director:

Consumer  
National Safety Council  
Wiss, Janney, Elstner  
Consumer  
Texas Tech University  
Glasstech, Inc.  
Consumer

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

### Members from those without certified products:

Ferro Corporation  
Madico  
Mobay  
Plastic Safety Glazing Committee  
Saxon Industries  
Three M Company

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Roger S. Green  
Henry S. Byrne  
George L. Graf  
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### Administrative Manager:

Robert A. Nance, P.E.

### Administrative Staff:

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Rose Goodwin  
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ANSI

6 SGCC; July 1, 1980

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Telephone 716-665-6422

### Honorary Non-Voting Life Time Member

Mr. Norman Nitschke  
Glasstech, Inc.  
Willis Day Industrial Park  
995 Fourth Street  
Perrysburg, Ohio 43551  
Telephone 419-661-9500



# CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC- 12 Virginia Glass	SGCC- 245 C-E Glass	SGCC- 386 Libbey-Owens-Ford
SGCC- 14 Virginia Glass	SGCC- 246 C-E Glass	SGCC- 390 Tuf-flex Glass
SGCC- 19 Libbey-Owens-Ford	SGCC- 249 PPG Industries	SGCC- 391 Tuf-flex Glass
SGCC- 24 AFG Industries	SGCC- 250 PPG Industries	SGCC- 392 Tuf-flex Glass
SGCC- 26 AFG Industries	SGCC- 251 Canadian Pittsburgh	SGCC- 396 Ford Motor Company
SGCC- 27 AFG Industries	SGCC- 252 Tyre Brothers	SGCC- 397 Ford Motor Company
SGCC- 28 AFG Industries	SGCC- 253 Tyre Brothers	SGCC- 400 PPG Industries
SGCC- 31 AFG Industries	SGCC- 254 Tyre Brothers	SGCC- 402 PPG Industries
SGCC- 40 Guardian Industries	SGCC- 255 Tyre Brothers	SGCC- 404 PPG Industries
SGCC- 41 Guardian Industries	SGCC- 256 Tyre Brothers	SGCC- 410 C-E Glass
SGCC- 43 Guardian Industries	SGCC- 257 Tuf-flex Glass	SGCC- 411 C-E Glass
SGCC- 47 C-E Glass	SGCC- 258 Tuf-flex Glass	SGCC- 412 C-E Glass
SGCC- 49 C-E Glass	SGCC- 263 Guardian Industries	SGCC- 413 C-E Glass
SGCC- 54 Hamilton Glass	SGCC- 264 Guardian Industries	SGCC- 414 C-E Glass
SGCC- 56 Hamilton Glass	SGCC- 265 C-E Glass	SGCC- 441 Temp-Safe
SGCC- 57 Hamilton Glass	SGCC- 266 PPG Industries	SGCC- 444 Libbey-Owens-Ford
SGCC- 59 PPG Industries	SGCC- 267 PPG Industries	SGCC- 446 PPG Industries
SGCC- 60 PPG Industries	SGCC- 270 Tuf-flex Glass	SGCC- 449 Libbey-Owens-Ford
SGCC- 61 PPG Industries	SGCC- 279 Ohio Plate Glass	SGCC- 452 C-E Glass
SGCC- 63 PPG Industries	SGCC- 295 PPG Industries	SGCC- 453 C-E Glass
SGCC- 64 PPG Industries	SGCC- 297 AFG Industries	SGCC- 454 PPG Industries
SGCC- 70 PPG Industries	SGCC- 298 Tuf-flex Glass	SGCC- 455 PPG Industries
SGCC- 73 PPG Industries	SGCC- 300 Guardian Industries	SGCC- 456 PPG Industries
SGCC- 76 C-E Glass	SGCC- 314 Tuf-flex Glass	SGCC- 458 Guardian Industries
SGCC- 89 AFG Industries	SGCC- 315 Tuf-flex Glass	SGCC- 464 Libbey-Owens-Ford
SGCC- 90 AFG Industries	SGCC- 316 Rotuba Extruders	SGCC- 471 Guardian Industries
SGCC- 92 Virginia Glass	SGCC- 320 Tuf-flex Glass	SGCC- 474 PPG Industries
SGCC- 93 Virginia Glass	SGCC- 321 Tuf-flex Glass	SGCC- 475 PPG Industries
SGCC- 94 Virginia Glass	SGCC- 322 Tuf-flex Glass	SGCC- 482 Tuf-flex Glass
SGCC- 95 Virginia Glass	SGCC- 323 Tuf-flex Glass	SGCC- 483 Tuf-flex Glass
SGCC- 97 Guardian Industries	SGCC- 328 Ohio Plate Glass	SGCC- 487 Guardian Industries
SGCC- 98 Guardian Industries	SGCC- 330 C-E Glass	SGCC- 488 Temp-Safe
SGCC- 102 PPG Industries	SGCC- 331 C-E Glass	SGCC- 489 C-E Glass
SGCC- 108 C-E Glass	SGCC- 336 C-E Glass	SGCC- 490 Tuf-flex Glass
SGCC- 110 Texas Tempered	SGCC- 337 Tempered Glass	SGCC- 491 Tuf-flex Glass
SGCC- 118 Flex-O-Glass	SGCC- 338 Tempered Glass	SGCC- 499 AFG Industries
SGCC- 129 Hamilton Glass	SGCC- 341 Ford Motor Company	SGCC- 508 Central Glass
SGCC- 131 Guardian Industries	SGCC- 342 Ford Motor Company	SGCC- 514 Downey Glass
SGCC- 137 Texas Tempered	SGCC- 344 C-E Glass	SGCC- 515 Downey Glass
SGCC- 141 AFG Industries	SGCC- 345 C-E Glass	SGCC- 516 Downey Glass
SGCC- 150 Libbey-Owens-Ford	SGCC- 346 C-E Glass	SGCC- 520 Anglass Industries
SGCC- 151 Libbey-Owens-Ford	SGCC- 348 Tempered Glass	SGCC- 525 Tuf-flex Glass
SGCC- 157 Chromalloy-Safetee	SGCC- 350 LOF Glass	SGCC- 532 Temp-Safe
SGCC- 160 Guardian Industries	SGCC- 351 LOF Glass	SGCC- 544 Libbey-Owens-Ford
SGCC- 173 Sheffield Plastics	SGCC- 352 LOF Glass	SGCC- 545 LOF Glass
SGCC- 181 Chromalloy-Safetee	SGCC- 360 C-E Glass	SGCC- 562 Ohio Plate Glass
SGCC- 182 Chromalloy-Safetee	SGCC- 361 C-E Glass	SGCC- 567 Manchester Products
SGCC- 185 Ohio Plate Glass	SGCC- 373 LOF Glass	SGCC- 570 Texas Tempered
SGCC- 186 Ohio Plate Glass	SGCC- 374 LOF Glass	SGCC- 583 Artistic Glass
SGCC- 188 Ohio Plate Glass	SGCC- 375 LOF Glass	SGCC- 584 Artistic Glass
SGCC- 194 PPG Industries	SGCC- 378 Chromalloy-Safetee	SGCC- 585 Artistic Glass
SGCC- 195 PPG Industries	SGCC- 379 Chromalloy-Safetee	SGCC- 586 Feather-lite
SGCC- 209 Canadian Pittsburgh	SGCC- 380 Chromalloy-Safetee	SGCC- 587 AFG Industries
SGCC- 219 PPG Industries	SGCC- 381 Chromalloy-Safetee	SGCC- 588 AFG Industries
SGCC- 220 AFG Industries	SGCC- 382 PPG Industries	SGCC- 592 Tempglass
SGCC- 229 Tuf-flex Glass	SGCC- 385 C-E Glass	

# CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC- 593 Tempglass	SGCC- 818 Tuf-flex Glass	SGCC-1013 San Diego Tempering
SGCC- 594 Tempglass	SGCC- 889 C-E Glass	SGCC-1014 San Diego Tempering
SGCC- 595 Tempglass	SGCC- 891 Tempglass Western	SGCC-1015 San Diego Tempering
SGCC- 597 Tempglass	SGCC- 896 C-E Glass	SGCC-1016 San Diego Tempering
SGCC- 598 AFG Industries	SGCC- 900 Chromalloy-Safetee	SGCC-1020 General Glass
SGCC- 600 Doulton Tempered	SGCC- 904 C-E Glass	SGCC-1021 General Glass
SGCC- 601 Doulton Tempered	SGCC- 914 C-E Glass	SGCC-1034 Shaw Glass
SGCC- 603 Downey Glass	SGCC- 920 Northwestern Industries	SGCC-1035 Shaw Glass
SGCC- 604 Downey Glass	SGCC- 921 Tuf-flex Glass	SGCC-1036 Shaw Glass
SGCC- 605 Downey Glass	SGCC- 927 PPG Industries	SGCC-1037 Shaw Glass
SGCC- 606 Downey Glass	SGCC- 933 Guardian Industries	SGCC-1038 AFG Industries
SGCC- 607 Downey Glass	SGCC- 934 Guardian Industries	SGCC-1039 Tempglass
SGCC- 608 Downey Glass	SGCC- 935 Downey Glass	SGCC-1041 Ardco
SGCC- 609 Downey Glass	SGCC- 940 C-E Glass	SGCC-1042 Ardco
SGCC- 610 Feather-lite	SGCC- 941 C-E Glass	SGCC-1043 Tempglass Southern
SGCC- 617 Guardian Industries	SGCC- 945 C-E Glass	SGCC-1044 Tempglass Southern
SGCC- 619 C-E Glass	SGCC- 948 Tempglass Western	SGCC-1045 Tempglass Southern
SGCC- 620 C-E Glass	SGCC- 949 AFG Industries	SGCC-1046 Tempglass Southern
SGCC- 621 Hamilton Glass	SGCC- 952 PPG Industries	SGCC-1049 Ardco
SGCC- 630 Downey Glass	SGCC- 953 Guardian Industries	SGCC-1050 Ohio Plate Glass
SGCC- 631 Guardian Industries	SGCC- 955 AFG Industries	SGCC-1051 C-E Glass
SGCC- 633 Guardian Industries	SGCC- 963 AFG Industries	SGCC-1052 C-E Glass
SGCC- 638 Cal-Temp	SGCC- 964 Guardian Industries	SGCC-1054 C-E Glass
SGCC- 639 Cal-Temp	SGCC- 966 Tuf-flex Glass	SGCC-1055 Pacific Tempering
SGCC- 640 Cal-Temp	SGCC- 968 Guardian Industries	SGCC-1056 Temp-Safe
SGCC- 641 Cal-Temp	SGCC- 969 Guardian Industries	SGCC-1057 Tempered Glass
SGCC- 647 PPG Industries	SGCC- 970 Guardian Industries	SGCC-1058 Tempglass Eastern
SGCC- 648 PPG Industries	SGCC- 971 Guardian Industries	SGCC-1059 Tempglass Eastern
SGCC- 653 PPG Industries	SGCC- 972 Pacific Tempering	SGCC-1060 C-E Glass
SGCC- 654 Ohio Plate Glass	SGCC- 973 Pacific Tempering	SGCC-1061 C-E Glass
SGCC- 662 Guardian Industries	SGCC- 974 Pacific Tempering	SGCC-1062 Hehr International
SGCC- 668 Texas Tempered	SGCC- 975 Pacific Tempering	SGCC-1063 Hehr International
SGCC- 669 Texas Tempered	SGCC- 978 C-E Glass	SGCC-1067 PPG Industries
SGCC- 675 PPG Industries	SGCC- 979 Tempglass Eastern	SGCC-1068 Tempglass Southern
SGCC- 676 PPG Industries	SGCC- 981 Tempglass Eastern	SGCC-1069 C-E Glass
SGCC- 678 Downey Glass	SGCC- 982 Tempglass Eastern	SGCC-1070 Hehr International
SGCC- 679 PPG Industries	SGCC- 985 Temp-Tech	SGCC-1071 Shaw Glass
SGCC- 680 PPG Industries	SGCC- 986 Temp-Tech	SGCC-1072 AFG Industries
SGCC- 693 Tuf-flex Glass	SGCC- 987 Tempglass Eastern	SGCC-1073 Thermopane
SGCC- 695 Tuf-flex Glass	SGCC- 988 Tempglass Eastern	SGCC-1074 Thermopane
SGCC- 700 Doulton Tempered	SGCC- 989 Bennett's	SGCC-1075 Thermopane
SGCC- 701 Northwestern Industries	SGCC- 990 Bennett's	SGCC-1076 Thermopane
SGCC- 702 Northwestern Industries	SGCC- 991 Bennett's	SGCC-1077 Thermopane
SGCC- 703 Northwestern Industries	SGCC- 992 Bennett's	SGCC-1087 C-E Glass
SGCC- 704 Northwestern Industries	SGCC- 993 Bennett's	SGCC-1088 Ohio Plate Glass
SGCC- 707 Northwestern Industries	SGCC- 994 Bennett's	SGCC-1089 Tempglass, Ltd.
SGCC- 708 Falconer Glass	SGCC- 999 Anglass Industries	SGCC-1090 Tempglass, Ltd.
SGCC- 709 Falconer Glass	SGCC-1000 Anglass Industries	SGCC-1094 Tempglass, Ltd.
SGCC- 710 Falconer Glass	SGCC-1002 Downey Glass	SGCC-1095 Tempglass, Ltd.
SGCC- 711 Falconer Glass	SGCC-1004 Guardian Industries	SGCC-1109 Tempglass, Ltd.
SGCC- 712 Falconer Glass	SGCC-1006 C-E Glass	SGCC-1115 Tempglass Eastern
SGCC- 723 Tempglass Western	SGCC-1007 C-E Glass	SGCC-1116 C-E Glass
SGCC- 724 Tempglass Western	SGCC-1008 C-E Glass	SGCC-1117 Central Glass
SGCC- 725 Tempglass Western	SGCC-1009 C-E Glass	SGCC-1118 Tempered Glass
SGCC- 726 Tempglass Western	SGCC-1011 AFG Industries	SGCC-1119 C-E Glass
	SGCC-1012 Cal-Temp	SGCC-1120 Canadian Pittsburgh



# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

### AFG Industries, Inc.; Clarksburg, West Virginia

SGCC- 297	1/8	inch tempered transparent glass	Unlimited size
SGCC- 963	5/32	inch tempered transparent glass	Unlimited size
SGCC-1072	3/16	inch tempered transparent glass	Unlimited size
SGCC-1038	1/8	inch tempered pattern glass (s)	Unlimited size

### AFG Industries, Inc.; Greenland, Tennessee

SGCC- 598	1/8	inch tempered transparent glass	Unlimited size
SGCC- 955	5/32	inch tempered transparent glass	Unlimited size
SGCC- 220	3/16	inch tempered transparent glass	Unlimited size
SGCC- 89	1/4	inch tempered transparent glass	Unlimited size
SGCC- 90	3/8	inch tempered transparent glass	Unlimited size
SGCC- 587	1/8	inch tempered pattern glass (s)	Unlimited size
SGCC- 588	7/32	inch tempered pattern glass (s)	Unlimited size

### AFG Industries, Inc.; Kingsport, Tennessee

SGCC- 949	5/32	inch tempered transparent glass	Unlimited size
SGCC- 28	3/16	inch tempered transparent glass	Unlimited size
SGCC- 24	1/4	inch tempered transparent glass	Unlimited size
SGCC- 141	1/8	inch tempered pattern glass (s)	Unlimited size
SGCC- 31	7/32	inch tempered pattern glass (s)	Unlimited size
SGCC- 27	7/32	inch laminated transparent glass (0.030)	Unlimited size
SGCC- 26	1/4	inch laminated transparent glass (0.030)	Unlimited size
SGCC- 499	1/8:1/4	inch laminated transparent glass (0.030)	Unlimited size
SGCC-1011	7/32	inch laminated pattern glass (0.030) (s)	Unlimited size

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

SGCC- 520	1/8	inch tempered transparent glass	Unlimited size
SGCC- 999	3/16	inch tempered transparent glass	Unlimited size
SGCC-1000	1/4	inch tempered transparent glass	Unlimited size

### Ardco, Inc.; Chicago, Illinois

SGCC-1041	1/8	inch tempered transparent glass	Unlimited size
SGCC-1042	3/16	inch tempered transparent glass	Unlimited size
SGCC-1049	1/4	inch tempered transparent glass	Unlimited size

### Artistic Glass Products Company; Trumbauersville, Pennsylvania

SGCC- 583	1/8	inch tempered transparent glass	13" by 19"
SGCC- 584	3/16	inch tempered transparent glass	18" by 24"
SGCC- 585	1/4	inch tempered transparent glass	18" by 24"

### Bennett's; Salt Lake City, Utah

SGCC- 989	3/16	inch tempered transparent glass	Unlimited size
SGCC- 990	1/4	inch tempered transparent glass	Unlimited size
SGCC- 991	3/8	inch tempered transparent glass	Unlimited size
SGCC- 992	1/2	inch tempered transparent glass	Unlimited size
SGCC- 994	210	inch tempered pattern glass (m)	Unlimited size
SGCC- 993	7/32	inch tempered pattern glass (s)	Unlimited size

### C-E Glass; Atlanta, Georgia

SGCC-1116	3/16	inch tempered transparent glass	Unlimited size
SGCC- 108	1/4	inch tempered transparent glass	Unlimited size
SGCC-1069	3/8	inch tempered transparent glass	Unlimited size
SGCC-1008	210	inch tempered pattern glass (s)	Unlimited size
SGCC-1054	7/32	inch tempered pattern glass (s)	Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

### C-E Glass; Carson, California

SGCC- 453	1/8	inch tempered transparent glass	Unlimited size
SGCC- 410	3/16	inch tempered transparent glass	Unlimited size
SGCC- 411	1/4	inch tempered transparent glass	Unlimited size
SGCC- 412	3/8	inch tempered transparent glass	Unlimited size
SGCC- 413	1/2	inch tempered transparent glass	Unlimited size
SGCC- 452	1/8	inch tempered pattern glass (s)	Unlimited size
SGCC- 941	5/32	inch tempered pattern glass (m)	Unlimited size
SGCC- 414	3/16	inch tempered pattern glass (s)	Unlimited size
SGCC- 619	7/32	inch tempered pattern glass (s)	Unlimited size
SGCC- 620	7/32	inch tempered pattern glass (m)	Unlimited size

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

SGCC- 489	1/8	inch tempered transparent glass	Unlimited size
SGCC- 940	5/32	inch tempered transparent glass	Unlimited size
SGCC- 245	3/16	inch tempered transparent glass	Unlimited size
SGCC- 246	1/4	inch tempered transparent glass	Unlimited size
SGCC- 345	3/8	inch tempered transparent glass	Unlimited size
SGCC- 346	1/2	inch tempered transparent glass	Unlimited size
SGCC- 265	7/32	inch tempered pattern glass (s)	Unlimited size
SGCC-1087	7/32	inch tempered pattern glass (m)	Unlimited size

### C-E Glass; Fullerton, California

SGCC-1052	5/32	inch tempered pattern glass (s)	Unlimited size
SGCC- 914	3/16	inch tempered pattern glass (s)	Unlimited size

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

SGCC-1060	1/4	inch tempered transparent glass	Unlimited size
SGCC-1061	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC- 978	1/8	inch tempered transparent glass	30" by 60"
SGCC- 330	3/16	inch tempered transparent glass	30" by 39"
SGCC- 331	7/32	inch tempered transparent glass	30" by 39"
SGCC-1051	1/4	inch tempered transparent glass	30" by 55"

### C-E Glass; Miami, Florida

SGCC- 76	3/16	inch tempered transparent glass	Unlimited size
SGCC- 49	1/4	inch tempered transparent glass	Unlimited size
SGCC-1006	210	inch tempered pattern glass (s)	Unlimited size
SGCC-1007	7/32	inch tempered pattern glass (m)	Unlimited size

### C-E Glass; Tampa, Florida

SGCC- 385	3/16	inch tempered transparent glass	Unlimited size
SGCC- 47	1/4	inch tempered transparent glass	Unlimited size
SGCC- 889	3/8	inch tempered transparent glass	Unlimited size
SGCC- 896	1/2	inch tempered transparent glass	Unlimited size
SGCC-1119	7/32	inch tempered pattern glass (d)	Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

### C-E Glass; Warrenton, Missouri

SGCC- 360	1/8	inch tempered transparent glass	Unlimited size
SGCC- 945	5/32	inch tempered transparent glass	Unlimited size
SGCC- 336	3/16	inch tempered transparent glass	Unlimited size
SGCC- 361	1/4	inch tempered transparent glass	Unlimited size
SGCC- 904	1/8	inch tempered pattern glass (s)	Unlimited size
SGCC-1009	3/16	inch tempered pattern glass (s)	Unlimited size
SGCC- 344	7/32	inch tempered pattern glass (s)	Unlimited size

### Cal-Temp; Santa Fe Springs, California

SGCC-1012	3/16	inch tempered transparent glass	Unlimited size
SGCC- 638	1/4	inch tempered transparent glass	Unlimited size
SGCC- 639	3/8	inch tempered transparent glass	Unlimited size
SGCC- 640	1/2	inch tempered transparent glass	Unlimited size
SGCC- 641	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC- 251	1/8	inch tempered transparent glass	Unlimited size
SGCC-1120	5/32	inch tempered transparent glass	Unlimited size
SGCC- 209	3/16	inch tempered transparent glass	Unlimited size

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

SGCC-1117	1/4	inch polished wired glass (1/2 inch square mesh)	Unlimited size
SGCC- 508	1/4	inch polished wired glass (3/4 inch diamond mesh)	Unlimited size

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

SGCC- 900	3/16	inch tempered transparent glass	Unlimited size
SGCC- 157	1/4	inch tempered transparent glass	Unlimited size
SGCC- 181	3/8	inch tempered transparent glass	Unlimited size
SGCC- 182	1/2	inch tempered transparent glass	Unlimited size
SGCC- 378	7/32	inch laminated transparent glass (0.015)	Unlimited size
SGCC- 379	1/4	inch laminated transparent glass (0.015)	Unlimited size
SGCC- 380	3/8	inch laminated transparent glass (0.015)	Unlimited size
SGCC- 381	1/2	inch laminated transparent glass (0.015)	Unlimited size

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

SGCC- 600	5/32	inch tempered transparent glass	Unlimited size
SGCC- 700	3/16	inch tempered transparent glass	Unlimited size
SGCC- 601	1/4	inch tempered transparent glass	Unlimited size

### Downey Glass Company; Downey, California

SGCC- 603	1/8	inch tempered transparent glass	Unlimited size
SGCC-1002	5/32	inch tempered transparent glass	Unlimited size
SGCC- 606	3/16	inch tempered transparent glass	Unlimited size
SGCC- 609	1/4	inch tempered transparent glass	Unlimited size
SGCC- 604	1/8	inch tempered pattern glass (s)	Unlimited size
SGCC- 605	1/8	inch tempered pattern glass (m)	Unlimited size
SGCC- 607	3/16	inch tempered pattern glass (s)	Unlimited size
SGCC- 608	7/32	inch tempered pattern glass (s)	Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

### Downey Glass Company; Los Angeles, California

SGCC- 630	3/16	inch tempered transparent glass	Unlimited size
SGCC- 514	1/4	inch tempered transparent glass	Unlimited size
SGCC- 515	3/8	inch tempered transparent glass	Unlimited size
SGCC- 516	1/2	inch tempered transparent glass	Unlimited size
SGCC- 935	3/16	inch tempered pattern glass (s)	Unlimited size
SGCC- 678	7/32	inch tempered pattern glass (s)	Unlimited size

### Falconer Glass Industries, Inc.; Falconer, New York

SGCC- 708	3/16	inch tempered transparent glass	Unlimited size
SGCC- 709	1/4	inch tempered transparent glass	Unlimited size
SGCC- 710	3/8	inch tempered transparent glass	Unlimited size
SGCC- 711	1/2	inch tempered transparent glass	Unlimited size
SGCC- 712	3/4	inch tempered transparent glass	Unlimited size

### Feather-lite Manufacturing Company; Malvern, Arkansas

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

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

SGCC- 118	0.080	inch through 0.125 inch smooth extruded acrylic	Unlimited size
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### Ford Motor Company; Dearborn, Michigan

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

### General Glass Corporation; Denver, Colorado

SGCC-1020	3/16	inch tempered transparent glass	Unlimited size
SGCC-1021	1/4	inch tempered transparent glass	Unlimited size

### Guardian Industries Corporation; Carleton, Michigan

SGCC- 933	1/8	inch tempered transparent glass	Unlimited size
SGCC- 934	5/32	inch tempered transparent glass	Unlimited size
SGCC- 631	3/16	inch tempered transparent glass	Unlimited size
SGCC- 131	1/4	inch tempered transparent glass	Unlimited size
SGCC- 160	3/8	inch tempered transparent glass	Unlimited size
SGCC- 263	1/2	inch tempered transparent glass	Unlimited size

### Guardian Industries Corporation; Fort Lauderdale, Florida

SGCC- 633	3/16	inch tempered transparent glass	Unlimited size
SGCC- 40	1/4	inch tempered transparent glass	Unlimited size
SGCC- 41	3/8	inch tempered transparent glass	Unlimited size
SGCC-1004	1/2	inch tempered transparent glass	Unlimited size
SGCC- 617	7/32	inch tempered pattern glass (s)	Unlimited size

### Guardian Industries Corporation; Kingsburg, California

SGCC- 968	1/8	inch tempered transparent glass	Unlimited size
SGCC- 969	5/32	inch tempered transparent glass	Unlimited size
SGCC- 970	3/16	inch tempered transparent glass	Unlimited size
SGCC- 971	1/4	inch tempered transparent glass	Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

Guardian Industries Corporation; Torrance, California  
 SGCC- 964 3/16 inch tempered transparent glass  
 SGCC- 43 1/4 inch tempered transparent glass  
 SGCC- 97 3/8 inch tempered transparent glass  
 SGCC- 98 1/2 inch tempered transparent glass  
 SGCC- 264 7/32 inch tempered pattern glass (s)

Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size

Guardian Industries Corporation; Upper Sandusky, Ohio  
 SGCC- 458 7/32 inch laminated transparent glass (0.015)  
 SGCC- 487 1/4 inch laminated transparent glass (0.015)

Unlimited size  
 Unlimited size

Guardian Industries Corporation; Webster, Massachusetts  
 SGCC- 300 1/8 inch tempered transparent glass  
 SGCC- 953 3/16 inch tempered transparent glass  
 SGCC- 662 1/4 inch tempered transparent glass  
 SGCC- 471 3/8 inch tempered transparent glass

Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size

Hamilton Glass Products; Vincennes, Indiana  
 SGCC- 54 1/8 inch tempered transparent glass  
 SGCC- 56 3/16 inch tempered transparent glass  
 SGCC- 57 1/4 inch tempered transparent glass  
 SGCC- 621 1/8 inch tempered pattern glass (s)  
 SGCC- 129 7/32 inch tempered pattern glass (s)

Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size

Hehr International, Inc.; Chesaning, Michigan  
 SGCC-1062 1/8 inch tempered transparent glass  
 SGCC-1063 3/16 inch tempered transparent glass  
 SGCC-1070 1/8 inch tempered pattern glass (s)

32" by 60"  
 32" by 60"  
 32" by 60"

LOF Glass, Inc.; Laurinburg, North Carolina  
 SGCC- 350 1/8 inch tempered transparent glass  
 SGCC- 545 5/32 inch tempered transparent glass  
 SGCC- 351 3/16 inch tempered transparent glass  
 SGCC- 352 1/4 inch tempered transparent glass  
 SGCC- 373 5/16 inch tempered transparent glass  
 SGCC- 374 3/8 inch tempered transparent glass  
 SGCC- 375 1/2 inch tempered transparent glass

Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size

Libbey-Owens-Ford Company; Rossford, Ohio  
 SGCC- 386 3/16 inch tempered transparent glass  
 SGCC- 19 1/4 inch tempered transparent glass  
 SGCC- 464 5/16 inch tempered transparent glass  
 SGCC- 449 3/8 inch tempered transparent glass  
 SGCC- 150 1/2 inch tempered transparent glass  
 SGCC- 544 5/8 inch tempered transparent glass  
 SGCC- 151 3/4 inch tempered transparent glass  
 SGCC- 444 7/8 inch tempered transparent glass

Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size  
 Unlimited size

Manchester Products Company; Chatsworth, California  
 SGCC- 567 0.100 inch smooth extruded acrylic

Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED 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- 920	5/32	inch tempered pattern glass (m)	Unlimited size
SGCC- 707	7/32	inch tempered pattern glass (s)	Unlimited size

### Ohio Plate Glass Company; Lewisburg, Ohio

SGCC-1050	1/8	inch tempered transparent glass	Unlimited size
SGCC-1088	5/32	inch tempered transparent glass	Unlimited size
SGCC- 185	3/16	inch tempered transparent glass	Unlimited size
SGCC- 279	7/32	inch tempered transparent glass	Unlimited size
SGCC- 186	1/4	inch tempered transparent glass	Unlimited size
SGCC- 654	1/8	inch tempered pattern glass (m)	Unlimited size
SGCC- 188	3/16	inch tempered pattern glass (s)	Unlimited size
SGCC- 328	3/16	inch tempered pattern glass (d)	Unlimited size
SGCC- 562	7/32	inch tempered pattern glass (s)	Unlimited size

### PPG Industries, Inc.; Baltimore, Maryland

SGCC- 454	3/16	inch tempered transparent glass	Unlimited size
SGCC- 455	1/4	inch tempered transparent glass	Unlimited size
SGCC- 474	3/8	inch tempered transparent glass	Unlimited size
SGCC- 475	1/2	inch tempered transparent glass	Unlimited size
SGCC- 952	3/4	inch tempered transparent glass	Unlimited size
SGCC- 456	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC- 250	1/8	inch tempered transparent glass	Unlimited size
SGCC- 675	5/32	inch tempered transparent glass	Unlimited size
SGCC- 249	3/16	inch tempered transparent glass	Unlimited size
SGCC- 382	1/4	inch tempered transparent glass	Unlimited size

### PPG Industries, Inc.; Chicago, Illinois

SGCC- 266	3/16	inch tempered transparent glass	Unlimited size
SGCC- 267	1/4	inch tempered transparent glass	Unlimited size
SGCC- 647	3/8	inch tempered transparent glass	Unlimited size
SGCC- 648	1/2	inch tempered transparent glass	Unlimited size
SGCC- 653	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC- 60	1/8	inch tempered transparent glass	Unlimited size
SGCC- 679	5/32	inch tempered transparent glass	Unlimited size
SGCC- 927	3/16	inch tempered transparent glass	Unlimited size
SGCC- 102	1/4	inch tempered transparent glass	Unlimited size
SGCC- 446	3/16	inch tempered pattern glass (d)	Unlimited size

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

SGCC- 400	3/16	inch tempered transparent glass	Unlimited size
SGCC- 402	1/4	inch tempered transparent glass	Unlimited size
SGCC- 404	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC- 61	3/16	inch tempered transparent glass	Unlimited size
SGCC- 70	1/4	inch tempered transparent glass	Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

PPG Industries, Inc.; Fresno, California

SGCC- 295 1/8 inch tempered transparent glass  
SGCC- 676 5/32 inch tempered transparent glass  
SGCC- 64 3/16 inch tempered transparent glass  
SGCC- 73 1/4 inch tempered transparent glass

Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size

PPG Industries, Inc.; Miami, Florida

SGCC- 195 3/16 inch tempered transparent glass  
SGCC- 194 1/4 inch tempered transparent glass  
SGCC-1067 3/8 inch tempered transparent glass  
SGCC- 219 7/32 inch tempered pattern glass (s)

Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size

PPG Industries, Inc.; Mt. Zion, Illinois

SGCC- 59 1/8 inch tempered transparent glass  
SGCC- 680 5/32 inch tempered transparent glass  
SGCC- 63 3/16 inch tempered transparent glass

Unlimited size  
Unlimited size  
Unlimited size

Pacific Tempering Company, Inc.; Long Beach, California

SGCC- 972 3/16 inch tempered transparent glass  
SGCC- 974 1/4 inch tempered transparent glass  
SGCC- 975 3/8 inch tempered transparent glass  
SGCC-1055 1/2 inch tempered transparent glass  
SGCC- 973 7/32 inch tempered pattern glass (s)

Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size

Rotuba Extruders, Inc.; Linden, New Jersey

SGCC- 316 0.080 inch and greater thicknesses smooth extruded acrylic

Unlimited size

San Diego Tempering, Inc.; San Diego, California

SGCC-1013 3/16 inch tempered transparent glass  
SGCC-1014 1/4 inch tempered transparent glass  
SGCC-1015 3/8 inch tempered transparent glass  
SGCC-1016 1/2 inch tempered transparent glass

Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size

Shaw Glass Company, Inc.; Stoughton, Massachusetts

SGCC-1034 3/16 inch tempered transparent glass  
SGCC-1035 1/4 inch tempered transparent glass  
SGCC-1036 3/8 inch tempered transparent glass  
SGCC-1037 1/2 inch tempered transparent glass  
SGCC-1071 7/32 inch tempered pattern glass (s)

Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size

Sheffield Plastics, Inc.; Sheffield, Massachusetts

SGCC- 173 0.080 inch through 0.125 inch smooth extruded acrylic

Unlimited size

Temp-Safe, Inc.; Edmond, Oklahoma

SGCC-1056 3/16 inch tempered transparent glass  
SGCC- 441 1/4 inch tempered transparent glass  
SGCC- 532 3/8 inch tempered transparent glass  
SGCC- 488 1/2 inch tempered transparent glass

Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size

Temp-Tech Industries, Inc.; Chicago, Illinois

SGCC- 985 3/16 inch tempered transparent glass  
SGCC- 986 1/4 inch tempered transparent glass

Unlimited size  
Unlimited size



# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

### Tempered Glass Corporation; Tampa, Florida

SGCC-1057	3/16	inch tempered transparent glass	Unlimited size
SGCC- 337	1/4	inch tempered transparent glass	Unlimited size
SGCC- 348	3/8	inch tempered transparent glass	Unlimited size
SGCC- 338	1/2	inch tempered transparent glass	Unlimited size
SGCC-1118	7/32	inch tempered pattern glass (s)	Unlimited size

### Tempglass, Inc.; Perrysburg, Ohio

SGCC-1039	1/8	inch tempered transparent glass	Unlimited size
SGCC- 592	3/16	inch tempered transparent glass	Unlimited size
SGCC- 593	1/4	inch tempered transparent glass	Unlimited size
SGCC- 594	3/8	inch tempered transparent glass	Unlimited size
SGCC- 595	1/2	inch tempered transparent glass	Unlimited size
SGCC- 597	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC-1109	1/8	inch tempered transparent glass	Unlimited size
SGCC-1094	3/16	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

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

SGCC- 979	1/8	inch tempered transparent glass	Unlimited size
SGCC-1115	5/32	inch tempered transparent glass	Unlimited size
SGCC- 981	3/16	inch tempered transparent glass	Unlimited size
SGCC- 982	1/4	inch tempered transparent glass	Unlimited size
SGCC-1058	3/8	inch tempered transparent glass	Unlimited size
SGCC-1059	1/2	inch tempered transparent glass	Unlimited size
SGCC- 987	1/8	inch tempered pattern glass (s)	Unlimited size
SGCC- 988	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC-1043	3/16	inch tempered transparent glass	Unlimited size
SGCC-1044	1/4	inch tempered transparent glass	Unlimited size
SGCC-1045	3/8	inch tempered transparent glass	Unlimited size
SGCC-1046	1/2	inch tempered transparent glass	Unlimited size
SGCC-1068	7/32	inch tempered pattern glass (s)	Unlimited size

### Tempglass Western, Inc.; Fremont, California

SGCC- 723	3/16	inch tempered transparent glass	Unlimited size
SGCC- 724	1/4	inch tempered transparent glass	Unlimited size
SGCC- 725	3/8	inch tempered transparent glass	Unlimited size
SGCC- 726	1/2	inch tempered transparent glass	Unlimited size
SGCC- 948	3/4	inch tempered transparent glass	Unlimited size
SGCC- 891	7/32	inch tempered pattern glass (s)	Unlimited size

### Texas Tempered Glass Company; Houston, Texas

SGCC- 110	3/16	inch tempered transparent glass	Unlimited size
SGCC- 137	1/4	inch tempered transparent glass	Unlimited size
SGCC- 668	3/8	inch tempered transparent glass	Unlimited size
SGCC- 669	1/2	inch tempered transparent glass	Unlimited size
SGCC- 570	7/32	inch laminated transparent glass (0.030)	Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

### Thermopane LOF, Inc.; Clinton, North Carolina

SGCC-1073	3/16	inch tempered transparent glass	Unlimited size
SGCC-1074	1/4	inch tempered transparent glass	Unlimited size
SGCC-1075	5/16	inch tempered transparent glass	Unlimited size
SGCC-1076	3/8	inch tempered transparent glass	Unlimited size
SGCC-1077	1/2	inch tempered transparent glass	Unlimited size

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

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

### Tuf-flex Glass, Inc.; Elmhurst, Illinois

SGCC- 257	3/16	inch tempered transparent glass	Unlimited size
SGCC- 229	1/4	inch tempered transparent glass	Unlimited size
SGCC- 693	5/16	inch tempered transparent glass	Unlimited size
SGCC- 258	3/8	inch tempered transparent glass	Unlimited size
SGCC- 270	1/2	inch tempered transparent glass	Unlimited size

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

SGCC- 921	3/16	inch tempered transparent glass	Unlimited size
SGCC- 390	1/4	inch tempered transparent glass	Unlimited size
SGCC- 391	3/8	inch tempered transparent glass	Unlimited size
SGCC- 392	1/2	inch tempered transparent glass	Unlimited size
SGCC- 818	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC- 525	3/16	inch tempered transparent glass	Unlimited size
SGCC- 298	1/4	inch tempered transparent glass	Unlimited size
SGCC- 695	5/16	inch tempered transparent glass	Unlimited size
SGCC- 314	3/8	inch tempered transparent glass	Unlimited size
SGCC- 315	1/2	inch tempered transparent glass	Unlimited size

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

SGCC- 490	3/16	inch tempered transparent glass	Unlimited size
SGCC- 491	1/4	inch tempered transparent glass	Unlimited size
SGCC- 482	3/8	inch tempered transparent glass	Unlimited size
SGCC- 483	1/2	inch tempered transparent glass	Unlimited size
SGCC- 966	7/32	inch tempered pattern glass (s)	Unlimited size

### Tyre Brothers Glass Company; Los Angeles, California

SGCC- 252	3/16	inch tempered transparent glass	Unlimited size
SGCC- 253	1/4	inch tempered transparent glass	Unlimited size
SGCC- 254	3/8	inch tempered transparent glass	Unlimited size
SGCC- 255	1/2	inch tempered transparent glass	Unlimited size
SGCC- 256	7/32	inch tempered pattern glass (s)	Unlimited size

### Virginia Glass Products Corporation; Martinsville, Virginia

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

## CLASSIFIED TEMPERED GLASS PATTERNS

### 1/8 inch shallow

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

### 1/8 inch medium

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

### 1/8 inch deep

(10) Autumn

### 5/32 inch shallow

(59) Luxlite	(60) Factrolite	(64) Spray Lite	(70) Muralex	(72) Velvex
(74) Ribbed	(75) Aquatex	(76) Finetex	(81) Pattern 6	(88) Pattern 100
(118) Solatex	(121) Sunadex	(123) P-516		

### 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				

### 5/32 inch deep

(65) Autumn	(67) Oceanic	(68) Roundel
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### 3/16 inch shallow

(50) Pattern 62	(51) P-516	(54) Showerlite	(116) Heliolite	(119) Solatex
(122) Sunadex				

### 3/16 inch medium

(58) Pattern 76

### 3/16 inch deep

(12) Oceanic	(13) Roundel	(41) Lozenge
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### 210 shallow

(89) Velvex	(90) Muralex	(91) Industrex	(92) Aquatex	(93) Pattern 100
(94) Pattern 6	(95) Pattern 62	(96) Spray Lite	(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
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### 210 deep

(104) Lozenge	(114) Broad Lite
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### 7/32 inch shallow

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

### 7/32 inch medium

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

(29) Lozenge	(53) Broad Lite
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# CERTIFIED PRODUCTS — BY PRODUCT TYPE

MAXIMUM  
CERTIFIED SIZE

## TEMPERED TRANSPARENT GLASS

### 1/8 inch tempered transparent glass

AFG Industries, Inc.; Clarksburg, West Virginia	SGCC- 297	Unlimited size
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 598	Unlimited size
Anglass Industries, Inc.; San Fernando, California	SGCC- 520	Unlimited size
Ardco, Inc.; Chicago, Illinois	SGCC-1041	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC- 583	13" by 19"
C-E Glass; Carson, California	SGCC- 453	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC- 489	Unlimited size
C-E Glass; Lancaster, Ohio; Slocum Street	SGCC- 978	30" by 60"
C-E Glass; Warrenton, Missouri	SGCC- 360	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada	SGCC- 251	Unlimited size
Downey Glass Company; Downey, California	SGCC- 603	Unlimited size
Feather-lite Manufacturing Company; Malvern, Arkansas	SGCC- 586	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC- 341	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC- 933	Unlimited size
Guardian Industries Corporation; Kingsburg, California	SGCC- 968	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC- 300	Unlimited size
Hamilton Glass Products; Vincennes, Indiana	SGCC- 54	Unlimited size
Hehr International, Inc.; Chesaning, Michigan	SGCC-1062	32" by 60"
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 350	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC- 701	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-1050	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 250	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC- 60	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC- 295	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC- 59	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC-1039	Unlimited size
Tempglass, Ltd.; Weston, Ontario, Canada	SGCC-1109	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 979	Unlimited size

### 5/32 inch tempered transparent glass

AFG Industries, Inc.; Clarksburg, West Virginia	SGCC- 963	Unlimited size
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 955	Unlimited size
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 949	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC- 940	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC- 945	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada	SGCC-1120	Unlimited size
Doulton Tempered Glass, Ltd.; Bradford, England	SGCC- 600	Unlimited size
Downey Glass Company; Downey, California	SGCC-1002	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC- 396	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC- 934	Unlimited size
Guardian Industries Corporation; Kingsburg, California	SGCC- 969	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 545	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC- 702	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-1088	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 675	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC- 679	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC- 676	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC- 680	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1115	Unlimited size

# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

### 3/16 inch tempered transparent glass

AFG Industries, Inc.; Clarksburg, West Virginia	SGCC-1072	Unlimited size
AFG Industries, Inc.; Greenland, Tennessee	SGCC- 220	Unlimited size
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 28	Unlimited size
Anglass Industries, Inc.; San Fernando, California	SGCC- 999	Unlimited size
Ardco, Inc.; Chicago, Illinois	SGCC-1042	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC- 584	18" by 24"
Bennett's; Salt Lake City, Utah	SGCC- 989	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-1116	Unlimited size
C-E Glass; Carson, California	SGCC- 410	Unlimited size
C-E Glass; Cinna-minson, New Jersey	SGCC- 245	Unlimited size
C-E Glass; Lancaster, Ohio; Slocum Street	SGCC- 330	30" by 39"
C-E Glass; Miami, Florida	SGCC- 76	Unlimited size
C-E Glass; Tampa, Florida	SGCC- 385	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC- 336	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC-1012	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada	SGCC- 209	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC- 900	Unlimited size
Doulton Tempered Glass, Ltd.; Bradford, England	SGCC- 700	Unlimited size
Downey Glass Company; Downey, California	SGCC- 606	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC- 630	Unlimited size
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 708	Unlimited size
Feather-lite Manufacturing Company; Malvern, Arkansas	SGCC- 610	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC- 342	Unlimited size
General Glass Corporation; Denver, Colorado	SGCC-1020	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC- 631	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 633	Unlimited size
Guardian Industries Corporation; Kingsburg, California	SGCC- 970	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 964	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC- 953	Unlimited size
Hamilton Glass Products; Vincennes, Indiana	SGCC- 56	Unlimited size
Hehr International, Inc.; Chesaning, Michigan	SGCC-1063	32" by 60"
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 351	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC- 386	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC- 703	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 185	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC- 454	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 249	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC- 266	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC- 927	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC- 400	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 61	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC- 64	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC- 195	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC- 63	Unlimited size
Pacific Tempering Company, Inc.; Long Beach, California	SGCC- 972	Unlimited size
San Diego Tempering, Inc.; San Diego, California	SGCC-1013	Unlimited size
Shaw Glass Company, Inc.; Stoughton, Massachusetts	SGCC-1034	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC-1056	Unlimited size
Temp-Tech Industries, Inc.; Chicago, Illinois	SGCC- 985	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-1057	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 592	Unlimited size
Tempglass, Ltd.; Weston, Ontario, Canada	SGCC-1094	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 981	Unlimited size
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1043	Unlimited size

# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

### 3/16 inch tempered transparent glass—continued

Tempglass Western, Inc.; Fremont, California	SGCC- 723	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC- 110	Unlimited size
Thermopane LOF, Inc.; Clinton, North Carolina	SGCC-1073	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC- 320	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC- 257	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC- 921	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC- 525	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC- 490	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC- 252	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 12	Unlimited size

### 7/32 inch tempered transparent glass

C-E Glass; Lancaster, Ohio; Slocum Street	SGCC- 331	30" by 39"
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 279	Unlimited size

### 1/4 inch tempered transparent glass

AFG Industries, Inc.; Greenland, Tennessee	SGCC- 89	Unlimited size
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 24	Unlimited size
Anglass Industries, Inc.; San Fernando, California	SGCC-1000	Unlimited size
Ardco, Inc.; Chicago, Illinois	SGCC-1049	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC- 585	18" by 24"
Bennett's; Salt Lake City, Utah	SGCC- 990	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC- 108	Unlimited size
C-E Glass; Carson, California	SGCC- 411	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC- 246	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-1060	Unlimited size
C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-1051	30" by 55"
C-E Glass; Miami, Florida	SGCC- 49	Unlimited size
C-E Glass; Tampa, Florida	SGCC- 47	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC- 361	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC- 638	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC- 157	Unlimited size
Doulton Tempered Glass, Ltd.; Bradford, England	SGCC- 601	Unlimited size
Downey Glass Company; Downey, California	SGCC- 609	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC- 514	Unlimited size
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 709	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC- 397	Unlimited size
General Glass Corporation; Denver, Colorado	SGCC-1021	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC- 131	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 40	Unlimited size
Guardian Industries Corporation; Kingsburg, California	SGCC- 971	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 43	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC- 662	Unlimited size
Hamilton Glass Products; Vincennes, Indiana	SGCC- 57	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 352	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC- 19	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC- 704	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 186	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC- 455	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC- 382	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC- 267	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC- 102	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC- 402	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 70	Unlimited size

# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

### 1/4 inch tempered transparent glass—continued

PPG Industries, Inc.; Fresno, California	SGCC- 73	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC- 194	Unlimited size
Pacific Tempering Company, Inc.; Long Beach, California	SGCC- 974	Unlimited size
San Diego Tempering, Inc.; San Diego, California	SGCC-1014	Unlimited size
Shaw Glass Company, Inc.; Stoughton, Massachusetts	SGCC-1035	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC- 441	Unlimited size
Temp-Tech Industries, Inc.; Chicago, Illinois	SGCC- 986	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC- 337	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 593	Unlimited size
Tempglass, Ltd.; Weston, Ontario, Canada	SGCC-1095	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 982	Unlimited size
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1044	Unlimited size
Tempglass Western, Inc.; Fremont, California	SGCC- 724	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC- 137	Unlimited size
Thermopane LOF, Inc.; Clinton, North Carolina	SGCC-1074	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC- 321	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC- 229	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC- 390	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC- 298	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC- 491	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC- 253	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 14	Unlimited size

### 5/16 inch tempered transparent glass

LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 373	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC- 464	Unlimited size
Thermopane LOF, Inc.; Clinton, North Carolina	SGCC-1075	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC- 693	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC- 695	Unlimited size

### 3/8 inch tempered transparent glass

AFG Industries, Inc.; Greenland, Tennessee	SGCC- 90	Unlimited size
Bennett's; Salt Lake City, Utah	SGCC- 991	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-1069	Unlimited size
C-E Glass; Carson, California	SGCC- 412	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC- 345	Unlimited size
C-E Glass; Tampa, Florida	SGCC- 889	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC- 639	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC- 181	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC- 515	Unlimited size
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 710	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC- 160	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 41	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 97	Unlimited size
Guardian Industries Corporation; Webster, Massachusetts	SGCC- 471	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 374	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC- 449	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC- 474	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC- 647	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC-1067	Unlimited size
Pacific Tempering Company, Inc.; Long Beach, California	SGCC- 975	Unlimited size
San Diego Tempering, Inc.; San Diego, California	SGCC-1015	Unlimited size
Shaw Glass Company, Inc.; Stoughton, Massachusetts	SGCC-1036	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC- 532	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC- 348	Unlimited size



# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

### 3/8 inch tempered transparent glass—continued

Tempglass, Inc.; Perrysburg, Ohio	SGCC- 594	Unlimited size
Tempglass, Ltd.; Weston, Ontario, Canada	SGCC-1089	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1058	Unlimited size
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1045	Unlimited size
Tempglass Western, Inc.; Fremont, California	SGCC- 725	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC- 668	Unlimited size
Thermopane LOF, Inc.; Clinton, North Carolina	SGCC-1076	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC- 322	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC- 258	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC- 391	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC- 314	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC- 482	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC- 254	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 93	Unlimited size

### 1/2 inch tempered transparent glass

Bennett's; Salt Lake City, Utah	SGCC- 992	Unlimited size
C-E Glass; Carson, California	SGCC- 413	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC- 346	Unlimited size
C-E Glass; Tampa, Florida	SGCC- 896	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC- 640	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC- 182	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC- 516	Unlimited size
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 711	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC- 263	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-1004	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 98	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 375	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC- 150	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC- 475	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC- 648	Unlimited size
Pacific Tempering Company, Inc.; Long Beach, California	SGCC-1055	Unlimited size
San Diego Tempering, Inc.; San Diego, California	SGCC-1016	Unlimited size
Shaw Glass Company, Inc.; Stoughton, Massachusetts	SGCC-1037	Unlimited size
Temp-Safe, Inc.; Edmond, Oklahoma	SGCC- 488	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC- 338	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 595	Unlimited size
Tempglass, Ltd.; Weston, Ontario, Canada	SGCC-1090	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1059	Unlimited size
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1046	Unlimited size
Tempglass Western, Inc.; Fremont, California	SGCC- 726	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC- 669	Unlimited size
Thermopane LOF, Inc.; Clinton, North Carolina	SGCC-1077	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC- 323	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC- 270	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC- 392	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC- 315	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC- 483	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC- 255	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 94	Unlimited size

### 5/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC- 544	Unlimited size
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# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

### 3/4 inch tempered transparent glass

Falconer Glass Industries, Inc.; Falconer, New York  
 Libbey-Owens-Ford Company; Rossford, Ohio  
 PPG Industries, Inc.; Baltimore, Maryland  
 Tempglass Western, Inc.; Fremont, California  
 Virginia Glass Products Corporation; Martinsville, Virginia

SGCC- 712 Unlimited size  
 SGCC- 151 Unlimited size  
 SGCC- 952 Unlimited size  
 SGCC- 948 Unlimited size  
 SGCC- 95 Unlimited size

### 7/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio

SGCC- 444 Unlimited size

### TEMPERED PATTERN GLASS

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

AFG Industries, Inc.; Clarksburg, West Virginia  
 AFG Industries, Inc.; Greenland, Tennessee  
 AFG Industries, Inc.; Kingsport, Tennessee  
 C-E Glass; Carson, California  
 C-E Glass; Warrenton, Missouri  
 Downey Glass Company; Downey, California  
 Hamilton Glass Products; Vincennes, Indiana  
 Hehr International, Inc.; Chesaning, Michigan  
 Tempglass Eastern, Inc.; Norcross, Georgia

SGCC-1038 Unlimited size  
 SGCC- 587 Unlimited size  
 SGCC- 141 Unlimited size  
 SGCC- 452 Unlimited size  
 SGCC- 904 Unlimited size  
 SGCC- 604 Unlimited size  
 SGCC- 621 Unlimited size  
 SGCC-1070 32" by 60"  
 SGCC- 987 Unlimited size

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

Downey Glass Company; Downey, California  
 Ohio Plate Glass Company; Lewisburg, Ohio

SGCC- 605 Unlimited size  
 SGCC- 654 Unlimited size

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

C-E Glass; Fullerton, California

SGCC-1052 Unlimited size

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

C-E Glass; Carson, California  
 Northwestern Industries, Inc.; Seattle, Washington

SGCC- 941 Unlimited size  
 SGCC- 920 Unlimited size

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

C-E Glass; Carson, California  
 C-E Glass; Fullerton, California  
 C-E Glass; Warrenton, Missouri  
 Downey Glass Company; Downey, California  
 Downey Glass Company; Los Angeles, California  
 Ohio Plate Glass Company; Lewisburg, Ohio

SGCC- 414 Unlimited size  
 SGCC- 914 Unlimited size  
 SGCC-1009 Unlimited size  
 SGCC- 607 Unlimited size  
 SGCC- 935 Unlimited size  
 SGCC- 188 Unlimited size

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

Ohio Plate Glass Company; Lewisburg, Ohio  
 PPG Industries, Inc.; Crestline, Ohio

SGCC- 328 Unlimited size  
 SGCC- 446 Unlimited size

#### 210 inch tempered pattern glass (shallow patterns)

C-E Glass; Atlanta, Georgia  
 C-E Glass; Miami, Florida

SGCC-1008 Unlimited size  
 SGCC-1006 Unlimited size

#### 210 inch tempered pattern glass (medium patterns)

Bennett's; Salt Lake City, Utah

SGCC- 994 Unlimited size

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

AFG Industries, Inc.; Greenland, Tennessee  
 AFG Industries, Inc.; Kingsport, Tennessee

SGCC- 588 Unlimited size  
 SGCC- 31 Unlimited size

# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

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

Bennett's; Salt Lake City, Utah	SGCC- 993	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-1054	Unlimited size
C-E Glass; Carson, California	SGCC- 619	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC- 265	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-1061	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC- 344	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC- 641	Unlimited size
Downey Glass Company; Downey, California	SGCC- 608	Unlimited size
Downey Glass Company; Los Angeles, California	SGCC- 678	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC- 617	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC- 264	Unlimited size
Hamilton Glass Products; Vincennes, Indiana	SGCC- 129	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC- 707	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 562	Unlimited size
PPG Industries, Inc.; Baltimore, Maryland	SGCC- 456	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC- 653	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC- 404	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC- 219	Unlimited size
Pacific Tempering Company, Inc.; Long Beach, California	SGCC- 973	Unlimited size
Shaw Glass Company, Inc.; Stoughton, Massachusetts	SGCC-1071	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-1118	Unlimited size
Tempglass, Inc.; Perrysburg, Ohio	SGCC- 597	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 988	Unlimited size
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1068	Unlimited size
Tempglass Western, Inc.; Fremont, California	SGCC- 891	Unlimited size
Tuf-flex Glass, Inc.; Irving, Texas	SGCC- 818	Unlimited size
Tuf-flex Glass, Inc.; Union City, California	SGCC- 966	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC- 256	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 92	Unlimited size

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

C-E Glass; Carson, California	SGCC- 620	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-1087	Unlimited size
C-E Glass; Miami, Florida	SGCC-1007	Unlimited size

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

C-E Glass; Tampa, Florida	SGCC-1119	Unlimited size
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## LAMINATED GLASS

### 7/32 inch laminated transparent glass

AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 27	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC- 378	Unlimited size
Guardian Industries Corporation; Upper Sandusky, Ohio	SGCC- 458	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC- 570	Unlimited size

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

AFG Industries, Inc.; Kingsport, Tennessee	SGCC-1011	Unlimited size
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### 1/4 inch laminated transparent glass

AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 26	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC- 379	Unlimited size
Guardian Industries Corporation; Upper Sandusky, Ohio	SGCC- 487	Unlimited size

# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

<b>3/8 inch laminated transparent glass</b> Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC- 380	Unlimited size
<b>1/8:1/4 inch laminated transparent glass</b> AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 499	Unlimited size
<b>1/2 inch laminated transparent glass</b> Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania	SGCC- 381	Unlimited size
<b>TRANSPARENT WIRED GLASS</b> <b>1/4 inch polished wired glass</b> Central Glass Company, Ltd.; Tokyo, Japan Central Glass Company, Ltd.; Tokyo, Japan	SGCC-1117 SGCC- 508	Unlimited size Unlimited size
<b>SAFETY PLASTIC SHEET</b> <b>0.080 inch and greater thicknesses acrylic</b> Rotuba Extruders, Inc.; Linden, New Jersey	SGCC- 316	Unlimited size
<b>0.080 though 0.125 inch acrylic</b> Flex-O-Glass, Inc.; Dixon, Illinois Sheffield Plastics, Inc.; Sheffield, Massachusetts	SGCC- 118 SGCC- 173	Unlimited size Unlimited size
<b>0.100 inch acrylic</b> Manchester Products Company; Chatsworth, California	SGCC- 567	Unlimited size

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## 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 typical labels reproduced in this certified products directory are the same size that you will find on each piece of safety glazing material.

The permanent label must contain the SGCC number, ANSI Z97.1-1975, 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 Z97.1-1975—INDOOR USE ONLY" and shall be marked also with the manufacturer's distinctive mark or designation." Quoted from ANSI Z97.1-1975.

"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 Z97.1-1975.

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 Z97.1-1975  
16 CFR 1201 II  
SGCC-123/691 1/4 U

ANSI Z97.1-1975 SGCC-123 1/4 U  
16 CFR 1201 II SGCC-691

## EXAMPLE OF LICENSEE'S TYPICAL LABEL

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

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

**BENNETT'S**  
2132 South 300 West  
Salt Lake City, Utah 84115

**BENNETT'S**  
ANSI Z97.1-1975  
16 CFR 1201-I, II  
SGCC-990 1/4 U

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

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

**C-E GLASS**  
700 Union Landing and River Roads  
Cinnaminson, New Jersey 08077

**CE GLASS**  
ARM-R-CLAD®  
SAFETY TEMPERED  
ANSI Z97.1-1975  
SGCC 489 1/8 U  
16 CFR 1201-I, II  
CH 1978

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

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

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

**CAL TEMP**  
1/4U.-SGCC-638  
ANSI-Z97.1 1975  
16 CFR 1201-II  
SFS-I

**ARTISTIC GLASS PRODUCTS COMPANY**  
P.O. Box 785  
Quakertown, Pennsylvania 18951

**AGS** I-81L  
ANSI-Z97.1-1975  
16 CFR 1201 I & II  
SGCC 583  
A19 178

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

**CPI** HERCULITE® K  
TEMPERED TREMPÉ  
CAN2-12.I DOT 165  
.....  
16 CFR 1201-I, II  
ANSI Z97.1-1975  
SGCC-209 5.0 mm U

## EXAMPLE OF LICENSEE'S TYPICAL LABEL

**CENTRAL GLASS COMPANY, LTD.**  
U.S.A. Office  
250 Park Avenue; Suite 817  
New York, New York 10017

### **POLISHED WIRED GLASS**



**CENTRAL GLASS CO., LTD.**  
Wired Safety Glass  
ANSI Z97.1-1975 1/4U  
SGCC-508

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

**FALCONER GLASS IND., INC.**  
DURASAFE 3/4" U  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1975  
16CFR 1201 II SGCC-712

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

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

**Tentative Label**  
ANSI Z97.1-1975  
SGCC- 379 1/4U

**SAFETY PANE**  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1975 SGCC-586 1/8U

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

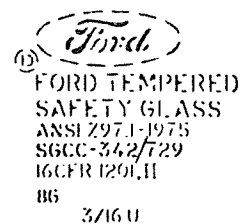
**FLEX-O-GLASS, INC.**  
1100 North Cicero Avenue  
Chicago, Illinois 60651



*Warps*  
**FLEX-O-GLAZE™**  
ACRYLIC SAFETY GLAZING  
16 CFR 1201 C II  
.100U  
ANSI Z97.1-75 SGCC-119

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

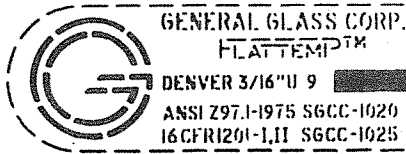
**FORD MOTOR COMPANY GLASS DIVISION**  
300 Renaissance Center; P.O. Box 43343  
Detroit, Michigan 48243



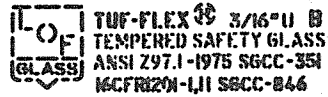


# EXAMPLE OF LICENSEE'S TYPICAL LABEL

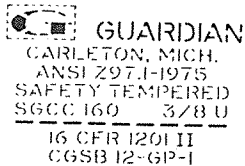
**GENERAL GLASS CORPORATION**  
P.O. Box 38711  
Denver, Colorado 80238



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



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



**LIBBEY-OWENS-FORD COMPANY**  
1701 East Broadway  
Toledo, Ohio 43605



**HAMILTON GLASS PRODUCTS**  
2000 Chestnut Street  
Vincennes, Indiana 47591

**TEMPER-TUF**  
HAMILTON GLASS PRODUCTS  
VINCENNES, INDIANA  
**ANSI Z97.1-1975**  
**3/16U SGCC-56**  
TEMPERED SAFETY GLASS  
**16CFR 1201 CPSC II**  
**579001**

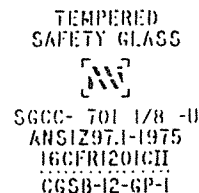
**MANCHESTER PRODUCTS COMPANY**  
8966 Mason Avenue  
Chatsworth, California 91311

**MANCHESTER PRODUCTS CO.**  
**ANSI-Z97.1 1975**  
**100U SGCC 567**

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

**Tentative Label**  
**ANSI Z97.1-1975**  
**SGCC-1062 1/8L**

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



# EXAMPLE OF LICENSEE'S TYPICAL LABEL

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

TEMPERED  
3/16"-UP SGCC 188  
OHIO PLATE  
ANSI Z97.1-1975  
CPSC 16CFR1201-II  
80 HL

**SAN DIEGO TEMPERING, INC.**  
8221 Arjons Drive  
San Diego, California 92126

**SAN DIEGO  
TEMPERING**  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC 1016 1/2 U

**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

**SHAW GLASS COMPANY, INC.**  
213 Turnpike Street  
Stoughton, Massachusetts 02072

**SOLAR TEMP.**  
16 CFR 1201 II

ANSI Z 97.1 1975  
1/4 U SGCC 1035

**PACIFIC TEMPERING COMPANY, INC.**  
2845 East Broadway  
Long Beach, California 90803

**LB TEMP**  
ANSI Z97.1 1975  
16 CFR 1201.CII  
7/32U SGCC-973

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

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

**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

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

TEMP-SAFE  
TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1975  
SGCC-488-1/2 U

## EXAMPLE OF LICENSEE'S TYPICAL LABEL

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

**TEMPERED GLASS**  
**ETC** 16 CFR 1201.11  
**MIC** ANSI Z97.1-1975  
**PH** SGCC 906-1/4"U

**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  
07 79

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

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

**TEMPGLASS SOUTHERN, INC.**  
1101 Fountain Parkway  
Grand Prairie, Texas 75051

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

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

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

**TEMPGLASS WESTERN, INC.**  
48999 Kato Road  
Fremont, California 94538

**TEMPGLASS WESTERN**  
ANSI Z97.1 - 1975  
SGCC 948 3/4" - U  
16 CFR 1201 - 11

**TEMPGLASS, LTD.**  
131 Ormont Drive  
Weston, Ontario M9L 2S3  
Canada

**G**  
**TEMPGLASS LTD.**  
16 CFR 1201-11  
ANSI Z97.1-1975  
SGCC 1109-1/8"U

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

**TTG ANSI Z97.1-1975 .375U**  
**SGCC 688**  
**16 CFR 1201-2**  
**TEXAS TEMPERED GLASS CO.**  
**HOUSTON, TEXAS**

## EXAMPLE OF LICENSEE'S TYPICAL LABEL

### THERMOPANE LOF, INC.

P.O. Box 408  
Clinton, North Carolina 29328



TUF-FLEX® 3/16" -U B  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1975 SGCC 1073  
16 CFR 1201-I,II SGCC 1080

### TYRE BROTHERS GLASS COMPANY

3008 South San Pedro Street  
Los Angeles, California 90051

#### Tentative Label

ANSI Z97.1-1975  
SGCC-252 3/16U

### TUF-FLEX GLASS, INC.

811 Madison Avenue  
Toledo, Ohio 43695

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

### VIRGINIA GLASS PRODUCTS CORPORATION

P.O. Box 5431  
Martinsville, Virginia 24112



## SGCC APPROVED TESTING LABORATORIES

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

ETL Testing Laboratories, Inc.  
1960 Will Ross Court  
Chamblee, Georgia 30341  
Attention: Mr. Burr Bachler  
Telephone 404-458-7763

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

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

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

\* \* \* \* \*

## SGCC PARTICIPANTS WITHOUT A CERTIFIED PRODUCT

Mr. Henry S. Byrne  
Mobay Chemical Company  
Penn Lincoln Parkway West  
Pittsburgh, Pennsylvania 15205

Mr. Roger S. Green  
Madico  
64 Industrial Parkway  
Woburn, Massachusetts 01801

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

Mr. Robert J. Weis  
Ferro Corporation  
60 Greenway Drive  
Pittsburgh, Pennsylvania 15204

Mr. Barry Skolnick  
Saxon Industries  
Cranbury, New Jersey 08512

Dr. George L. Graf, Jr.  
Plastic Safety Glazing Committee  
c/o E.I. DuPont de Nemours and Company  
Plastics Products and Resins Department  
Chestnut Run  
Wilmington, Delaware 19898

**PROCEDURAL GUIDE**  
**SAFETY GLAZING CERTIFICATION COUNCIL**  
**CERTIFICATION PROGRAM FOR**  
**SAFETY GLAZING MATERIALS USED IN BUILDINGS**

**FOREWARD**

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

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

To insure administration of the Certification Program in a uniform and equitable manner, this Procedural Guide has been prepared for the information and guidance of the 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. This standard, promulgated by the American National Standards Institute, *requires* certification in accordance with ANSI Z34.1 prior to labeling safety glazing materials as conforming to ANSI Z97.1.

**WHO CAN PARTICIPATE?**

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

**WHO CONDUCTS THE PROGRAM?**

The Safety Glazing Certification Council, a non-profit corporation, is the sponsor of this certification program. SGCC supervises the certification program under which the Administrator periodically checks and reports compliance of the manufacturers of products having the SGCC certification label with the requirements of ANSI Z97.1.

**ADMINISTRATION**

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

## HOW CAN YOU BECOME A 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 sends 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 \$250 per man day *plus* the reasonable costs of travel and the maintenance entailed in resolving such incidents. Refunds of part or all of the surety deposit will be made when applicable. All costs involved will be paid from the complainant's surety deposit, *unless* the investigation proves non-compliance, *in which case all costs will be borne by the 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:**

\$440 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.

\$55 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.

\$550 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.

\$70 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 Administration Service Agreement, for the guidance of those concerned with the procedural details of the Certification Program's operation. It covers the steps to be taken in any given procedural situation in the interest of equitable and uniform treatment of 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 code that refers to the listing in the Certified Products Directory. The listing then provides a complete product description including the company name, plant location, etc.

## **PROGRAM RESPONSIBILITY**

The *SGCC Board of Directors* has overall responsibility for the well being and acceptance of the Certification Program by the industry, building officials and the public. It also bears legal corporate responsibility.

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

- a) establishes certification "guidelines"
- b) determines the applicability of the Specifications in a specific situation where a question is raised by a 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:

SGCC Board of Directors  
Mr. Robert L. Brown, Chairman  
Virginia Glass Products Corporation  
P.O. Box 5431  
Martinsville, Virginia 24112  
Telephone 703-956-3131

SGCC Certification Committee  
Mr. Irvin D. Fintel, Chairman  
Tempglass, Inc.  
Willis Day Industrial Park  
291 "M" Street  
Perrysburg, Ohio 43551  
Telephone 419-666-2000

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

## July 1, 1980 Update

April 1, 1980 though June 30, 1980

### Additions:

C-E Glass; Atlanta, Georgia SGCC-1116 3/16 inch tempered transparent glass	Unlimited Size
C-E Glass; Tampa, Florida SGCC-1119 7/32 inch tempered pattern glass (d)	Unlimited Size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada SGCC-1120 5/32 inch tempered transparent glass	Unlimited Size
Central Glass Company, Ltd.; Tokyo, Japan SGCC-1117 1/4 inch polished wired glass (1/2 inch square mesh)	Unlimited Size
Shaw Glass Company, Inc.; Stoughton, Massachusetts SGCC-1037 1/2 inch tempered transparent glass	Unlimited Size
Tempered Glass Corporation; Tampa, Florida SGCC-1118 7/32 inch tempered pattern glass (s)	Unlimited Size
Tempglass Eastern, Inc.; Norcross, Georgia SGCC-1115 5/32 inch tempered transparent glass	Unlimited Size
Tempglass, Ltd.; Weston, Ontario, Canada SGCC-1109 1/8 inch tempered transparent glass	Unlimited Size
SGCC-1094 3/16 inch tempered transparent glass	Unlimited Size
SGCC-1095 1/4 inch tempered transparent glass	Unlimited Size
Thermopane LOF, Inc.; Clinton, North Carolina SGCC-1073 3/16 inch tempered transparent glass	Unlimited Size
SGCC-1074 1/4 inch tempered transparent glass	Unlimited Size
SGCC-1075 5/16 inch tempered transparent glass	Unlimited Size
SGCC-1076 3/8 inch tempered transparent glass	Unlimited Size
SGCC-1077 1/2 inch tempered transparent glass	Unlimited Size

### Deletions:

C-E Glass; Tampa, Florida SGCC-1005 7/32 inch tempered pattern glass (d)	Unlimited Size
Carolina Processed Glass; Rock Hill, South Carolina SGCC-1064 3/16 inch tempered transparent glass	Unlimited Size
SGCC-1066 1/4 inch tempered transparent glass	Unlimited Size
SGCC- 674 3/8 inch tempered transparent glass	Unlimited Size
Cascade Tempering, Inc.; Vancouver, Washington SGCC- 946 3/16 inch tempered transparent glass	Unlimited Size
SGCC- 947 1/4 inch tempered transparent glass	Unlimited Size
SGCC- 956 3/8 inch tempered transparent glass	Unlimited Size
SGCC- 957 1/2 inch tempered transparent glass	Unlimited Size
Central Glass Company, Ltd.; Tokyo, Japan SGCC- 543 1/4 inch polished wired glass (1/2 inch square mesh)	Unlimited Size
Plaskolite, Inc.; Columbus, Ohio SGCC- 152 0.080 inch and greater thicknesses smooth extruded acrylic	Unlimited Size
Romsit; Medias, Romania SGCC- 922 5/32 inch tempered transparent glass	Unlimited Size
SGCC- 997 3/16 inch tempered transparent glass	Unlimited Size
Tempered Glass Corporation; Tampa, Florida SGCC- 421 7/32 inch tempered pattern glass (s)	Unlimited Size
Tempglass, Inc.; Perrysburg, Ohio SGCC-1040 5/32 inch tempered transparent glass	Unlimited Size
Tuf-flex Glass, Inc.; Atlanta, Georgia SGCC- 692 5/16 inch tempered transparent glass	Unlimited Size

# CERTIFICATION GUIDELINES AND INTERPRETATIONS

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

## GENERAL

### G.1

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

### G.2

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

### G.3

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

### G.4

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 January 1, 1978 the SGCC permanent label must contain ANSI Z97.1-1975 in order to be considered a correct permanent label for purposes of Guideline G.6.

f) For exterior plastics the SGCC permanent label must contain ANSI Z97.1-1975 (a). (See Guideline P.E.1.)

### G.7

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

Only" and the SGCC identification number.

### G.8

After initial compliance with a sample size as stated in Table 1, testing of other sizes which represent the sizes manufactured may be allowed, provided however that all sizes produced up to the size provided by Table 1, ANSI Z97.1-1975 are exposed to selection for testing.

### G.9

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

### G.10

In cases where the administrator samples and identifies specimens for routine evaluation on the 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.

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**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 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 Z97.1-1975 for each alternate pattern proposed.

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

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

In the case where a routine evaluation sample covered under a blanket certification fails to comply with the Specifications the situation requires that that particular product be submitted for the retest sample required by the 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 registered mail.

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

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

d) During the period covered by the bond the licensee shall retain certification, contingent upon payment of normal certification fees and meeting all other licensee obligations. Bonds will terminate 90 days after application 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 registered mail and 2) submit samples from the first weeks production to an SGCC approved laboratory for testing. In cases where more than one certified product is produced with the same equipment, samples of each must be furnished for testing within the first month. These will be considered as the routine samples for retesting for the six months period during which they are submitted.

f) Failure by the 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 an SGCC permanent label on their product that denotes compliance with ANSI Z97.1-1966, ANSI Z97.1-1972 and ANSI Z97.1-1975 or combination thereof, that they notify 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 and ANSI Z97.1-1975 or combination thereof. A single set of four test specimens will be impacted to determine impact test requirements of all standards. Upon successful completion of compliance tests the safety glazing materials are permanently labeled and listed in the SGCC certified products directory as having met the requirements of 1966, 1972 and 1975 versions or combination thereof of the ANSI Z97.1 standard. Any costs involved shall be paid by the 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 Z97.1-1975 programs under one SGCC number provided the licensee submits four specimens to be impact tested to ANSI Z97.1-1975 and one specimen to be impact tested to 16 CFR 1201 (all architectural 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 non compliance, 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.

## TEMPERED TRANSPARENT GLASS

### T.1

Certification of either flat glass or patterned glass will not cover the other except as noted in Guideline T.2. (Flat glass designates ground and polished plate, float and sheet glass.)

### T.2

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

### T.3

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

### T.4

In cases where certified tempered glass is normally not available for sampling, the 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 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 to 0.89
Deep pattern glass	0.79 or below

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

New or unlisted patterns must be submitted to the pattern subcommittee for classification and file, prior to certification. After measurement, the new pattern will be assigned to a pattern depth class.

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 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.

## 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 to be included in the certification.

### L.5

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

### L.6

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

### L.7

For certification purposes the following thickness tolerances shall be used: Thickness tolerance shall apply only to the overall nominal thickness. The plus tolerance shall be the sum of all of 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.

## 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) The certification committee has been presented with a copy of the results of a test indicating that compliance of the candidate glass with the requirements of ANSI Z97.1-1975 impact testing has been made.

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

## PLASTICS—GENERAL

### P.1

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

### P.2

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

### P.3

The following thickness tolerances shall be used for certification purposes:

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

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

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

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

### P.4

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

### P.5

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

## PLASTICS—EXTERIOR USE

### PE.1

Sheet plastics for exterior use must comply with ANSI Z97.1a-1977.

### PE.2

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

### PE.3

For all plastics requiring UV weathering tests an infrared spectrogram shall be obtained of all prototype weathering specimens. An infrared spectrogram shall be obtained of all routine re-evaluation samples and shall be compared with that of the prototype in lieu of conducting weathering 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 4.3 of ANSI Z97.1-1975 (UV Weathering) but must comply with paragraph 4.5.

### PI.2

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

### 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 Z97.1-1975 for each alternate pattern proposed.

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

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

### LG.2

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

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

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

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

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

### LG.3

For leaded diamond patterned annealed glass the tolerance for diagonal came center dimensions shall be plus or minus 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 of 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 Z97.1-1975 Safety Performance Specifications and Methods of Test for Safety  
Glazing Material Used in Buildings**

The purpose of ANSI Z97.1-1975 is to prescribe the functional properties of safety glazing materials so that they can be used in any place in buildings for which they possess the requisite characteristics. Intended to serve as a convenient reference for building officials, this new and important document is designed to provide a basis for standards that may be incorporated in federal, state, and local regulations.

Copies of ANSI Z97.1-1975 may be obtained from:

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

\* \* \* \* \*





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**JULY 1980**

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