

JANUARY 1, 1981



safety glazing certification council

CPSC  
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 to the 16 CFR 1201 Standard, a recognized standard for safety glazing in buildings. This standard subjects glazing materials to a practical test to determine that if they are broken by human contact, they break in a manner that would minimize the likelihood of cutting or piercing injury. SGCC's responsibilities are threefold: to assure a periodic testing program is maintained; to approve and register the form of the manufacturer's label; and to withdraw the manufacturer's authority to use that label if its products do not meet 16 CFR 1201 standard.

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 16 CFR 1201. The compliance of the manufacturer with the requirements of that standard is being checked periodically by an independent testing laboratory under the supervision of SGCC.

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

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

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

## MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Safety Glazing Certification Council met on April 23 and 24 and October 15, 1980. Interested persons may obtain minutes of these meetings by writing to the Safety Glazing Certification Council.

\* \* \* \* \*

Certification in this directory is up-to-date as of January 1, 1981; however, products may be certified or certification removed from time to time. Please contact the SGCC office for the latest up-to-date information.

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

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

Telephone 305-558-1352

\* \* \* \* \*

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

Consumer Products Safety Commission  
5401 Westbard Avenue  
Bethesda, Maryland 20016

# ROSTER

October, 1980

## SGCC BOARD OF DIRECTORS

### Representing Public Interest

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Leigh T. Yates, Assistant Secretary  
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## SGCC CERTIFICATION COMMITTEE

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Richard T. McGuire, Vice-chairman

### Licensee

AFG Industries, Inc.  
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C-E Glass  
Canadian Pittsburgh Industries, Inc.  
Central Glass Company, Ltd.  
Chromalloy-Safetee Glass Division  
Downey Glass Company, Inc.  
Falconer Glass Industries, Inc.  
Feather-lite Manufacturing, Inc.  
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, Inc.  
Ohio Plate Glass Company  
PPG Industries, Inc.  
Rotuba Extruders, Inc.  
Sheffield Plastics, Inc.  
Tempered Glass Corporation  
Tempglass, Inc.  
Tempglass Western, Inc.  
Temp-Safe, Inc.  
Temp-Tech Industries, Inc.  
Texas Tempered Glass Company  
Thermopane LOF, Inc.  
Tuf-flex Glass, Inc.  
Virginia Glass Products Corporation

### Primary Member

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Andrew G. Menke  
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Shinichiro Furuno  
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Jim Pinsky  
Richard E. Turner  
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  
Albert M. Bell  
Thomas Kradel  
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Robert B. Cobie  
Lewis E. Hunt, Jr.  
Bart Semeraro  
Hugh France  
Donald J. Vild  
Robert D. Lauter  
Robert L. Brown

### First Alternate

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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  
Samuel E. Baldwin  
Samuel E. Baldwin  
Timothy J. McQuade  
John Barr  
Charles R. Sutermeister  
Eugene E. Drood  
Bernard W. Brooks  
Howard Bienenfeld  
Robert Nitschke  
  
Thomas D. Boicey  
Samuel E. Baldwin  
Donald J. Vild  
Brooks R. Leavitt

### Second Alternate

C.J. Youngblood  
Richard T. McGuire  
  
Joseph D. Pinsky  
Richard H. Turner  
  
Terry Baker  
Ronald Purdue  
A. William Lingnell, III  
A. William Lingnell, III  
  
Robert G. Spindler  
  
David P. Moorhead  
  
Edward Mullery  
A. William Lingnell, III  
A.P. Stillman

### Members by virtue of being a director:

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

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Phil Dykstra  
Richard C. Elstner  
Mrs. Sylvia Lav  
Joseph E. Minor  
Norman Nitschke  
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### Members from those without certified products:

Ferro Corporation  
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Plastic Safety Glazing Committee  
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### Auditor:

### Administrative Manager:

### Administrative Staff:

Samuel Steen, Esquire  
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Rose Goodwin  
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## CPSC

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## SGCC BOARD OF DIRECTORS

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LOF Glass, Inc.  
1701 East Broadway  
Toledo, Ohio 43605  
Telephone 419-247-4231

Mr. Leigh T. Yates  
Falconer Glass Industries, Inc.  
500 South Work Street  
Falconer, New York 14733  
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- 594	Tempglass
SGCC- 14	Virginia Glass	SGCC- 595	Tempglass
SGCC- 24	AFG Industries	SGCC- 597	Tempglass
SGCC- 26	AFG Industries	SGCC- 598	AFG Industries
SGCC- 27	AFG Industries	SGCC- 610	Feather-lite
SGCC- 28	AFG Industries	SGCC- 621	Hamilton Glass
SGCC- 31	AFG Industries	SGCC- 638	Cal-Temp
SGCC- 54	Hamilton Glass	SGCC- 639	Cal-Temp
SGCC- 57	Hamilton Glass	SGCC- 640	Cal-Temp
SGCC- 59	PPG Industries	SGCC- 641	Cal-Temp
SGCC- 60	PPG Industries	SGCC- 668	Texas Tempered
SGCC- 61	PPG Industries	SGCC- 669	Texas Tempered
SGCC- 63	PPG Industries	SGCC- 675	PPG Industries
SGCC- 64	PPG Industries	SGCC- 676	PPG Industries
SGCC- 70	PPG Industries	SGCC- 679	PPG Industries
SGCC- 89	AFG Industries	SGCC- 680	PPG Industries
SGCC- 90	AFG Industries	SGCC- 701	Northwestern Industries
SGCC- 92	Virginia Glass	SGCC- 702	Northwestern Industries
SGCC- 93	Virginia Glass	SGCC- 703	Northwestern Industries
SGCC- 94	Virginia Glass	SGCC- 704	Northwestern Industries
SGCC- 95	Virginia Glass	SGCC- 707	Northwestern Industries
SGCC- 110	Texas Tempered	SGCC- 708	Falconer Glass
SGCC- 118	Flex-O-Glass	SGCC- 709	Falconer Glass
SGCC- 129	Hamilton Glass	SGCC- 710	Falconer Glass
SGCC- 137	Texas Tempered	SGCC- 711	Falconer Glass
SGCC- 141	AFG Industries	SGCC- 712	Falconer Glass
SGCC- 173	Sheffield Plastics	SGCC- 723	Tempglass Western
SGCC- 185	Ohio Plate Glass	SGCC- 724	Tempglass Western
SGCC- 186	Ohio Plate Glass	SGCC- 725	Tempglass Western
SGCC- 194	PPG Industries	SGCC- 726	Tempglass Western
SGCC- 195	PPG Industries	SGCC- 727	Ford Motor Company
SGCC- 209	Canadian Pittsburgh	SGCC- 728	Ford Motor Company
SGCC- 220	AFG Industries	SGCC- 729	Ford Motor Company
SGCC- 249	PPG Industries	SGCC- 730	Ford Motor Company
SGCC- 250	PPG Industries	SGCC- 805	Downey Glass
SGCC- 251	Canadian Pittsburgh	SGCC- 806	Downey Glass
SGCC- 252	Tyre Brothers	SGCC- 807	Downey Glass
SGCC- 253	Tyre Brothers	SGCC- 808	Downey Glass
SGCC- 254	Tyre Brothers	SGCC- 809	Downey Glass
SGCC- 255	Tyre Brothers	SGCC- 810	Downey Glass
SGCC- 256	Tyre Brothers	SGCC- 811	Downey Glass
SGCC- 266	PPG Industries	SGCC- 812	Downey Glass
SGCC- 279	Ohio Plate Glass	SGCC- 813	Downey Glass
SGCC- 295	PPG Industries	SGCC- 814	Downey Glass
SGCC- 316	Rotuba Extruders	SGCC- 815	Downey Glass
SGCC- 400	PPG Industries	SGCC- 817	Downey Glass
SGCC- 402	PPG Industries	SGCC- 832	Tempered Glass
SGCC- 454	PPG Industries	SGCC- 833	Tempered Glass
SGCC- 455	PPG Industries	SGCC- 834	Tempered Glass
SGCC- 499	AFG Industries	SGCC- 835	Tempered Glass
SGCC- 583	Artistic Glass	SGCC- 844	LOF Glass
SGCC- 584	Artistic Glass	SGCC- 845	LOF Glass
SGCC- 585	Artistic Glass	SGCC- 846	LOF Glass
SGCC- 586	Feather-lite	SGCC- 847	LOF Glass
SGCC- 587	AFG Industries	SGCC- 848	LOF Glass
SGCC- 588	AFG Industries	SGCC- 849	LOF Glass
SGCC- 592	Tempglass	SGCC- 850	LOF Glass
SGCC- 593	Tempglass	SGCC- 854	LOF Glass

# CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC- 855	LOF Glass	SGCC-1010	Tuf-flex Glass
SGCC- 856	LOF Glass	SGCC-1011	AFG Industries
SGCC- 857	LOF Glass	SGCC-1013	San Diego Tempering
SGCC- 858	LOF Glass	SGCC-1014	San Diego Tempering
SGCC- 859	LOF Glass	SGCC-1015	San Diego Tempering
SGCC- 860	LOF Glass	SGCC-1016	San Diego Tempering
SGCC- 861	LOF Glass	SGCC-1034	Shaw Glass
SGCC- 862	Tuf-flex Glass	SGCC-1035	Shaw Glass
SGCC- 863	Tuf-flex Glass	SGCC-1036	Shaw Glass
SGCC- 865	Tuf-flex Glass	SGCC-1037	Shaw Glass
SGCC- 866	Tuf-flex Glass	SGCC-1039	Tempglass
SGCC- 867	Tuf-flex Glass	SGCC-1043	Tempglass Southern
SGCC- 868	Tuf-flex Glass	SGCC-1044	Tempglass Southern
SGCC- 869	Tuf-flex Glass	SGCC-1045	Tempglass Southern
SGCC- 870	Tuf-flex Glass	SGCC-1046	Tempglass Southern
SGCC- 872	Tuf-flex Glass	SGCC-1047	Tempglass Southern
SGCC- 873	Tuf-flex Glass	SGCC-1050	Ohio Plate Glass
SGCC- 874	Tuf-flex Glass	SGCC-1055	Pacific Tempering
SGCC- 875	Tuf-flex Glass	SGCC-1058	Tempglass Eastern
SGCC- 876	Tuf-flex Glass	SGCC-1059	Tempglass Eastern
SGCC- 877	Tuf-flex Glass	SGCC-1062	Hehr International
SGCC- 878	Tuf-flex Glass	SGCC-1063	Hehr International
SGCC- 879	Tuf-flex Glass	SGCC-1068	Tempglass Southern
SGCC- 880	Tuf-flex Glass	SGCC-1071	Shaw Glass
SGCC- 881	Tuf-flex Glass	SGCC-1080	LOF Glass
SGCC- 882	Tuf-flex Glass	SGCC-1081	LOF Glass
SGCC- 891	Tempglass Western	SGCC-1082	LOF Glass
SGCC- 898	Tuf-flex Glass	SGCC-1083	LOF Glass
SGCC- 911	Vidrierias De Llodio	SGCC-1084	LOF Glass
SGCC- 912	Vidrierias De Llodio	SGCC-1088	Ohio Plate Glass
SGCC- 913	Vidrierias De Llodio	SGCC-1089	Tempglass, Ltd.
SGCC- 920	Northwestern Industries	SGCC-1090	Tempglass, Ltd.
SGCC- 927	PPG Industries	SGCC-1094	Tempglass, Ltd.
SGCC- 928	Tempered Glass Specialists	SGCC-1095	Tempglass, Ltd.
SGCC- 929	Tempered Glass Specialists	SGCC-1101	Milgard Manufacturing
SGCC- 930	Tempered Glass Specialists	SGCC-1102	Milgard Manufacturing
SGCC- 948	Tempglass Western	SGCC-1109	Tempglass, Ltd.
SGCC- 949	AFG Industries	SGCC-1110	PPG Industries
SGCC- 955	AFG Industries	SGCC-1111	PPG Industries
SGCC- 958	Gateway Industries	SGCC-1112	PPG Industries
SGCC- 960	Gateway Industries	SGCC-1114	Downey Glass
SGCC- 972	Pacific Tempering	SGCC-1115	Tempglass Eastern
SGCC- 973	Pacific Tempering	SGCC-1120	Canadian Pittsburgh
SGCC- 974	Pacific Tempering	SGCC-1131	Fulton Glass
SGCC- 975	Pacific Tempering	SGCC-1132	Fulton Glass
SGCC- 979	Tempglass Eastern	SGCC-1133	Fulton Glass
SGCC- 981	Tempglass Eastern	SGCC-1134	Fulton Glass
SGCC- 982	Tempglass Eastern	SGCC-1135	Fulton Glass
SGCC- 985	Temp-Tech	SGCC-1139	AFG Industries
SGCC- 986	Temp-Tech	SGCC-1140	Bennett's
SGCC- 987	Tempglass Eastern	SGCC-1143	AFG Industries
SGCC- 988	Tempglass Eastern	SGCC-1145	PPG Industries
SGCC- 990	Bennett's	SGCC-1148	Tempered Glass
SGCC- 991	Bennett's	SGCC-1149	Tuf-flex Glass
SGCC- 992	Bennett's	SGCC-1157	Cal-Temp
SGCC- 993	Bennett's	SGCC-1158	Tempered Glass Specialists
SGCC- 994	Bennett's	SGCC-1159	Texas Tempered
SGCC-1003	Downey Glass		



# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

MAXIMUM  
CERTIFIED 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-1139	3/16	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-1143	3/16	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

## 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	15" by 24"
SGCC- 585	1/4	inch tempered transparent glass	15" by 24"

## Bennett's; Salt Lake City, Utah

SGCC-1140	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

## Cal-Temp; Santa Fe Springs, California

SGCC-1157	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

## Downey Glass Company, Inc.; Downey, California

SGCC- 805	1/8	inch tempered transparent glass	Unlimited size
SGCC-1003	5/32	inch tempered transparent glass	Unlimited size
SGCC- 806	3/16	inch tempered transparent glass	Unlimited size
SGCC- 807	1/4	inch tempered transparent glass	Unlimited size
SGCC- 808	1/8	inch tempered pattern glass (s)	Unlimited size
SGCC- 809	1/8	inch tempered pattern glass (m)	Unlimited size
SGCC- 810	3/16	inch tempered pattern glass (s)	Unlimited size
SGCC- 811	7/32	inch tempered pattern glass (s)	Unlimited size

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# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

### Downey Glass Company, Inc.; Los Angeles, California

SGCC- 812	3/16	inch tempered transparent glass	Unlimited size
SGCC- 813	1/4	inch tempered transparent glass	Unlimited size
SGCC- 814	3/8	inch tempered transparent glass	Unlimited size
SGCC- 815	1/2	inch tempered transparent glass	Unlimited size
SGCC-1114	3/16	inch tempered pattern glass (s)	Unlimited size
SGCC- 817	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- 727	1/8	inch tempered transparent glass	Unlimited size
SGCC- 728	5/32	inch tempered transparent glass	Unlimited size
SGCC- 729	3/16	inch tempered transparent glass	Unlimited size
SGCC- 730	1/4	inch tempered transparent glass	Unlimited size

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

SGCC-1131	3/16	inch tempered transparent glass	Unlimited size
SGCC-1132	1/4	inch tempered transparent glass	Unlimited size
SGCC-1133	3/8	inch tempered transparent glass	Unlimited size
SGCC-1134	1/2	inch tempered transparent glass	Unlimited size
SGCC-1135	7/32	inch tempered pattern glass (s)	Unlimited size

### Gateway Industries; Rogers, Arkansas

SGCC- 958	1/8	inch tempered transparent glass	24" by 41"
SGCC- 960	3/16	inch tempered pattern glass (d)	26" by 40"

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

SGCC- 54	1/8	inch tempered transparent glass	Unlimited size
SGCC- 57	1/4	inch tempered transparent glass	Unlimited size
SGCC- 621	1/8	inch tempered pattern glass (s)	Unlimited size
SGCC- 129	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC-1062	1/8	inch tempered transparent glass	32" by 60"
SGCC-1063	3/16	inch tempered transparent glass	32" by 60"

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

SGCC-1080	3/16	inch tempered transparent glass	Unlimited size
SGCC-1081	1/4	inch tempered transparent glass	Unlimited size
SGCC-1082	5/16	inch tempered transparent glass	Unlimited size
SGCC-1083	3/8	inch tempered transparent glass	Unlimited size
SGCC-1084	1/2	inch tempered transparent glass	Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED SIZE

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

SGCC- 844	1/8	inch tempered transparent glass	Unlimited size
SGCC- 845	5/32	inch tempered transparent glass	Unlimited size
SGCC- 846	3/16	inch tempered transparent glass	Unlimited size
SGCC- 847	1/4	inch tempered transparent glass	Unlimited size
SGCC- 848	5/16	inch tempered transparent glass	Unlimited size
SGCC- 849	3/8	inch tempered transparent glass	Unlimited size
SGCC- 850	1/2	inch tempered transparent glass	Unlimited size

### LOF Glass, Inc.; Rossford, Ohio

SGCC- 854	3/16	inch tempered transparent glass	Unlimited size
SGCC- 855	1/4	inch tempered transparent glass	Unlimited size
SGCC- 856	5/16	inch tempered transparent glass	Unlimited size
SGCC- 857	3/8	inch tempered transparent glass	Unlimited size
SGCC- 858	1/2	inch tempered transparent glass	Unlimited size
SGCC- 859	5/8	inch tempered transparent glass	Unlimited size
SGCC- 860	3/4	inch tempered transparent glass	Unlimited size
SGCC- 861	7/8	inch tempered transparent glass	Unlimited size

### Milgard Manufacturing, Inc.; Tacoma, Washington

SGCC-1101	3/16	inch tempered transparent glass	Unlimited size
SGCC-1102	1/4	inch tempered transparent glass	Unlimited size

### Northwestern Industries, Inc.; Seattle, Washington

SGCC- 701	1/8	inch tempered transparent glass	Unlimited size
SGCC- 702	5/32	inch tempered transparent glass	Unlimited size
SGCC- 703	3/16	inch tempered transparent glass	Unlimited size
SGCC- 704	1/4	inch tempered transparent glass	Unlimited size
SGCC- 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

### 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

### 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

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

SGCC- 266	3/16	inch tempered transparent glass	Unlimited size
SGCC-1145	1/4	inch tempered transparent glass	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

CPSC

12 SGCC; January 1, 1981

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

			MAXIMUM CERTIFIED 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
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
PPG Industries, Inc.; Fresno, California			
SGCC- 295	1/8	inch tempered transparent glass	Unlimited size
SGCC- 676	5/32	inch tempered transparent glass	Unlimited size
SGCC- 64	3/16	inch tempered transparent glass	Unlimited size
PPG Industries, Inc.; Miami, Florida			
SGCC- 195	3/16	inch tempered transparent glass	Unlimited size
SGCC- 194	1/4	inch tempered transparent glass	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois			
SGCC- 59	1/8	inch tempered transparent glass	Unlimited size
SGCC- 680	5/32	inch tempered transparent glass	Unlimited size
SGCC- 63	3/16	inch tempered transparent glass	Unlimited size
PPG Industries, Inc.; Wichita Falls, Texas			
SGCC-1110	1/8	inch tempered transparent glass	Unlimited size
SGCC-1111	5/32	inch tempered transparent glass	Unlimited size
SGCC-1112	3/16	inch tempered transparent glass	Unlimited size
Pacific Tempering Company, Inc.; Long Beach, California			
SGCC- 972	3/16	inch tempered transparent glass	Unlimited size
SGCC- 974	1/4	inch tempered transparent glass	Unlimited size
SGCC- 975	3/8	inch tempered transparent glass	Unlimited size
SGCC-1055	1/2	inch tempered transparent glass	Unlimited size
SGCC- 973	7/32	inch tempered pattern glass (s)	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	Unlimited size
SGCC-1014	1/4	inch tempered transparent glass	Unlimited size
SGCC-1015	3/8	inch tempered transparent glass	Unlimited size
SGCC-1016	1/2	inch tempered transparent glass	Unlimited size
Shaw Glass Company, Inc.; Stoughton, Massachusetts			
SGCC-1034	3/16	inch tempered transparent glass	Unlimited size
SGCC-1035	1/4	inch tempered transparent glass	Unlimited size
SGCC-1036	3/8	inch tempered transparent glass	Unlimited size
SGCC-1037	1/2	inch tempered transparent glass	Unlimited size
SGCC-1071	7/32	inch tempered pattern glass (s)	Unlimited size
Sheffield Plastics, Inc.; Sheffield, Massachusetts			
SGCC- 173	0.080	inch through 0.125 inch smooth extruded acrylic	Unlimited size
Temp-Tech Industries, Inc; Chicago, Illinois			
SGCC- 985	3/16	inch tempered transparent glass	Unlimited size
SGCC- 986	1/4	inch tempered transparent glass	Unlimited size

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

MAXIMUM  
CERTIFIED SIZE

## Tempered Glass Corporation; Tampa, Florida

SGCC-1148	3/16	inch tempered transparent glass
SGCC- 832	1/4	inch tempered transparent glass
SGCC- 833	3/8	inch tempered transparent glass
SGCC- 834	1/2	inch tempered transparent glass
SGCC- 835	7/32	inch tempered pattern glass (s)

Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size

## Tempered Glass Specialists; Antwerp, Ohio

SGCC- 928	1/8	inch tempered transparent glass
SGCC- 929	3/16	inch tempered transparent glass
SGCC- 930	1/4	inch tempered transparent glass
SGCC-1158	3/16	inch tempered pattern glass (d)

31" by 76"  
31" by 76"  
31" by 76"  
32" by 76"

## Tempglass, Inc.; Perrysburg, Ohio

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

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

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

SGCC-1109	1/8	inch tempered transparent glass
SGCC-1094	3/16	inch tempered transparent glass
SGCC-1095	1/4	inch tempered transparent glass
SGCC-1089	3/8	inch tempered transparent glass
SGCC-1090	1/2	inch tempered transparent glass

Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size  
Unlimited size

## Tempglass Eastern, Inc.; Norcross, Georgia

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

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

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

SGCC-1043	3/16	inch tempered transparent glass
SGCC-1044	1/4	inch tempered transparent glass
SGCC-1045	3/8	inch tempered transparent glass
SGCC-1046	1/2	inch tempered transparent glass
SGCC-1047	3/4	inch tempered transparent glass
SGCC-1068	7/32	inch tempered pattern glass (s)

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

## Tempglass Western, Inc.; Fremont, California

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

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

# CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT

## MAXIMUM CERTIFIED 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-1159	7/32	inch laminated transparent glass (0.030)	Unlimited size

Tuf-flex Glass Division-LOF Glass, Inc.; Atlanta, Georgia

SGCC- 862	3/16	inch tempered transparent glass	Unlimited size
SGCC- 863	1/4	inch tempered transparent glass	Unlimited size
SGCC- 865	3/8	inch tempered transparent glass	Unlimited size
SGCC- 866	1/2	inch tempered transparent glass	Unlimited size

Tuf-flex Glass Division-LOF Glass, Inc.; Elmhurst, Illinois

SGCC- 867	3/16	inch tempered transparent glass	Unlimited size
SGCC- 868	1/4	inch tempered transparent glass	Unlimited size
SGCC- 869	3/8	inch tempered transparent glass	Unlimited size
SGCC- 870	1/2	inch tempered transparent glass	Unlimited size

Tuf-flex Glass Division-LOF Glass, Inc.; Irving, Texas

SGCC-1010	3/16	inch tempered transparent glass	Unlimited size
SGCC- 872	1/4	inch tempered transparent glass	Unlimited size
SGCC- 873	3/8	inch tempered transparent glass	Unlimited size
SGCC- 874	1/2	inch tempered transparent glass	Unlimited size
SGCC- 898	7/32	inch tempered pattern glass (s)	Unlimited size

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

SGCC- 875	3/16	inch tempered transparent glass	Unlimited size
SGCC- 876	1/4	inch tempered transparent glass	Unlimited size
SGCC- 877	3/8	inch tempered transparent glass	Unlimited size
SGCC- 878	1/2	inch tempered transparent glass	Unlimited size

Tuf-flex Glass Division-LOF Glass, Inc.; Union City, California

SGCC- 879	3/16	inch tempered transparent glass	Unlimited size
SGCC- 880	1/4	inch tempered transparent glass	Unlimited size
SGCC- 881	3/8	inch tempered transparent glass	Unlimited size
SGCC- 882	1/2	inch tempered transparent glass	Unlimited size
SGCC-1149	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

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

SGCC- 911	1/8	inch tempered transparent glass	Unlimited size
SGCC- 912	3/16	inch tempered transparent glass	Unlimited size
SGCC- 913	7/32	inch tempered transparent glass	Unlimited size



# **CERTIFIED PRODUCTS — ALPHABETICAL BY PLANT**

## **MAXIMUM CERTIFIED 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
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### 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	(124) Heliolite	

### 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	(125) Spraylite			

### 3/16 inch medium

(58) Pattern 76
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### 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.; Greenland, Tennessee	SGCC- 598	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC- 583	13" by 19"
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada	SGCC- 251	Unlimited size
Downey Glass Company, Inc.; Downey, California	SGCC- 805	Unlimited size
Feather-lite Manufacturing Company; Malvern, Arkansas	SGCC- 586	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC- 727	Unlimited size
Gateway Industries; Rogers, Arkansas	SGCC- 958	24" by 41"
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC- 54	Unlimited size
Hehr International, Inc.; Chesaning, Michigan	SGCC-1062	32" by 60"
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 844	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
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1110	Unlimited size
Tempered Glass Specialists; Antwerp, Ohio	SGCC- 928	31" by 76"
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
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC- 911	Unlimited size

### 5/32 inch tempered transparent glass

AFG Industries, Inc.; Greenland, Tennessee	SGCC- 955	Unlimited size
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 949	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada	SGCC-1120	Unlimited size
Downey Glass Company, Inc.; Downey, California	SGCC-1003	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC- 728	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 845	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
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1111	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC-1115	Unlimited size

### 3/16 inch tempered transparent glass

AFG Industries, Inc.; Greenland, Tennessee	SGCC- 220	Unlimited size
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 28	Unlimited size
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC- 584	15" by 24"
Bennett's; Salt Lake City, Utah	SGCC-1140	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC-1157	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario, Canada	SGCC- 209	Unlimited size
Downey Glass Company, Inc.; Downey, California	SGCC- 806	Unlimited size
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 812	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- 729	Unlimited size
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1131	Unlimited size
Hehr International, Inc.; Chesaning, Michigan	SGCC-1063	32" by 60"
LOF Glass, Inc.; Clinton, North Carolina	SGCC-1080	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 846	Unlimited size

# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

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

LOF Glass, Inc.; Rossford, Ohio	SGCC- 854	Unlimited size
Milgard Manufacturing, Inc.; Tacoma, Washington	SGCC-1101	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
PPG Industries, Inc.; Wichita Falls, Texas	SGCC-1112	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-Tech Industries, Inc.; Chicago, Illinois	SGCC- 985	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-1148	Unlimited size
Tempered Glass Specialists; Antwerp, Ohio	SGCC- 929	31" by 76"
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
Tempglass Western, Inc.; Fremont, California	SGCC- 723	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC- 110	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Atlanta, Georgia	SGCC- 862	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Elmhurst, Illinois	SGCC- 867	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Irving, Texas	SGCC-1010	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Saddle Brook, New Jersey	SGCC- 875	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Union City, California	SGCC- 879	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC- 252	Unlimited size
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC- 912	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 12	Unlimited size

### 7/32 inch tempered transparent glass

Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 279	Unlimited size
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC- 913	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
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC- 585	15" by 24"
Bennett's; Salt Lake City, Utah	SGCC- 990	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC- 638	Unlimited size
Downey Glass Company, Inc.; Downey, California	SGCC- 807	Unlimited size
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 813	Unlimited size
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 709	Unlimited size
Ford Motor Company; Dearborn, Michigan	SGCC- 730	Unlimited size
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1132	Unlimited size
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC- 57	Unlimited size
LOF Glass, Inc.; Clinton, North Carolina	SGCC-1081	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 847	Unlimited size
LOF Glass, Inc.; Rossford, Ohio	SGCC- 855	Unlimited size
Milgard Manufacturing, Inc.; Tacoma, Washington	SGCC-1102	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC- 704	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC- 186	Unlimited size

# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

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

PPG Industries, Inc.; Baltimore, Maryland	SGCC- 455	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-1145	Unlimited size
PPG Industries, Inc.; Dallas, Texas	SGCC- 402	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC- 70	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-Tech Industries, Inc.; Chicago, Illinois	SGCC- 986	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC- 832	Unlimited size
Tempered Glass Specialists; Antwerp, Ohio	SGCC- 930	31" by 76"
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
Tuf-flex Glass Division-LOF Glass, Inc.; Atlanta, Georgia	SGCC- 863	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Elmhurst, Illinois	SGCC- 868	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Irving, Texas	SGCC- 872	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Saddle Brook, New Jersey	SGCC- 876	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Union City, California	SGCC- 880	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.; Clinton, North Carolina	SGCC-1082	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 848	Unlimited size
LOF Glass, Inc.; Rossford, Ohio	SGCC- 856	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
Cal-Temp; Santa Fe Springs, California	SGCC- 639	Unlimited size
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 814	Unlimited size
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 710	Unlimited size
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1133	Unlimited size
LOF Glass, Inc.; Clinton, North Carolina	SGCC-1083	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 849	Unlimited size
LOF Glass, Inc.; Rossford, Ohio	SGCC- 857	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
Tempered Glass Corporation; Tampa, Florida	SGCC- 833	Unlimited size
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
Tuf-flex Glass Division-LOF Glass, Inc.; Atlanta, Georgia	SGCC- 865	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Elmhurst, Illinois	SGCC- 869	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Irving, Texas	SGCC- 873	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Saddle Brook, New Jersey	SGCC- 877	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Union City, California	SGCC- 881	Unlimited size

# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

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

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
Cal-Temp; Santa Fe Springs, California	SGCC- 640	Unlimited size
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 815	Unlimited size
Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 711	Unlimited size
Fulton Glass Industries, Inc.; Red Oak, Georgia	SGCC-1134	Unlimited size
LOF Glass, Inc.; Clinton, North Carolina	SGCC-1084	Unlimited size
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC- 850	Unlimited size
LOF Glass, Inc.; Rossford, Ohio	SGCC- 858	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
Tempered Glass Corporation; Tampa, Florida	SGCC- 834	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
Tuf-flex Glass Division-LOF Glass, Inc.; Atlanta, Georgia	SGCC- 866	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Elmhurst, Illinois	SGCC- 870	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Irving, Texas	SGCC- 874	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Saddle Brook, New Jersey	SGCC- 878	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Union City, California	SGCC- 882	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

LOF Glass, Inc.; Rossford, Ohio	SGCC- 859	Unlimited size
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### 3/4 inch tempered transparent glass

Falconer Glass Industries, Inc.; Falconer, New York	SGCC- 712	Unlimited size
LOF Glass, Inc.; Rossford, Ohio	SGCC- 860	Unlimited size
Tempglass Southern, Inc.; Grand Prairie, Texas	SGCC-1047	Unlimited size
Tempglass Western, Inc.; Fremont, California	SGCC- 948	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 95	Unlimited size

### 7/8 inch tempered transparent glass

LOF Glass, Inc.; Rossford, Ohio	SGCC- 861	Unlimited size
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### TEMPERED PATTERN GLASS

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

AFG Industries, Inc.; Greenland, Tennessee	SGCC- 587	Unlimited size
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 141	Unlimited size
Downey Glass Company, Inc.; Downey, California	SGCC- 808	Unlimited size
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC- 621	Unlimited size
Tempglass Eastern, Inc.; Norcross, Georgia	SGCC- 987	Unlimited size

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

Downey Glass Company, Inc.; Downey, California	SGCC- 809	Unlimited size
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#### 5/32 inch tempered pattern glass (medium patterns)

Northwestern Industries, Inc.; Seattle, Washington	SGCC- 920	Unlimited size
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# CERTIFIED PRODUCTS — BY PRODUCT TYPE

## MAXIMUM CERTIFIED SIZE

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

AFG Industries, Inc.; Greenland, Tennessee	SGCC-1139	Unlimited size
AFG Industries, Inc.; Kingsport, Tennessee	SGCC-1143	Unlimited size
Downey Glass Company, Inc.; Downey, California	SGCC- 810	Unlimited size
Downey Glass Company, Inc.; Los Angeles, California	SGCC-1114	Unlimited size

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

Gateway Industries; Rogers, Arkansas	SGCC- 960	26'' by 40''
Tempered Glass Specialists; Antwerp, Ohio	SGCC-1158	32'' by 76''

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

Bennett's; Salt Lake City, Utah	SGCC- 994	Unlimited size
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### 7/32 inch tempered pattern glass (shallow patterns)

AFG Industries, Inc.; Greenland, Tennessee	SGCC- 588	Unlimited size
AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 31	Unlimited size
Bennett's; Salt Lake City, Utah	SGCC- 993	Unlimited size
Cal-Temp; Santa Fe Springs, California	SGCC- 641	Unlimited size
Downey Glass Company, Inc.; Downey, California	SGCC- 811	Unlimited size
Downey Glass Company, Inc.; Los Angeles, California	SGCC- 817	Unlimited size
Fulton Industries, Inc.; Red Oak, Georgia	SGCC-1135	Unlimited size
Hamilton Glass Products, Inc.; Vincennes, Indiana	SGCC- 129	Unlimited size
Northwestern Industries, Inc.; Seattle, Washington	SGCC- 707	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- 835	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 Division-LOF Glass, Inc.; Irving, Texas	SGCC- 898	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Union City, California	SGCC-1149	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC- 256	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC- 92	Unlimited size

### LAMINATED GLASS

#### 7/32 inch laminated transparent glass

AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 27	Unlimited size
Texas Tempered Glass Company; Houston, Texas	SGCC-1159	Unlimited size

#### 1/4 inch laminated transparent glass

AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 26	Unlimited size
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#### 1/8:1/4 inch laminated transparent glass

AFG Industries, Inc.; Kingsport, Tennessee	SGCC- 499	Unlimited size
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### LAMINATED PATTERN GLASS

#### 7/32 inch laminated pattern glass (s)

AFG Industries, Inc.; Kingsport, Tennessee	SGCC-1011	Unlimited size
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### SAFETY PLASTIC SHEET

#### 0.080 inch and greater thicknesses acrylic

Rotuba Extruders, Inc.; Linden, New Jersey	SGCC- 316	Unlimited size
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#### 0.080 though 0.125 inch acrylic

Flex-O-Glass, Inc.; Dixon, Illinois	SGCC- 118	Unlimited size
Sheffield Plastics, Inc.; Sheffield, Massachusetts	SGCC- 173	Unlimited size

### CPSC

22 SGCC; January 1, 1981

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

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

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

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

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

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

The permanent label must be affixed to certified products only at the time and place of manufacture.

The permanent label must be affixed only to safety glazing materials of the licensee's own manufacture, which are certified in the SGCC program.

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

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

### EXAMPLES:

16 CFR 1201 II  
ANSI Z97.1 1975  
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 1201.11  
ANSI Z97.1-1975  
1/4U SGCC-24  
AFG OOI

**CANADIAN PITTSBURGH INDUSTRIES, LTD.**  
1299 20th Street, East  
Owen Sound, Ontario N4K 2C3  
Canada

 **HERCULITE® K**  
**TEMPERED** **TREMPE**  
**CAN2-12.1** **DOT 165**  
.....  
16 CFR 1201-1.11  
ANSI Z97.1-1975  
SGCC-209 5.0mmU

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

 **I-81L**  
ANSI-Z97.1-1975  
16 CFR 1201 I & II  
SGCC 583  
A19 78

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

***ful-temp***  
 SGCC-603 .125U  
ANSI-Z97.1 1975  
16 CFR 1201 II  
SGCC - 805

**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

**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**

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

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

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

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

# EXAMPLE OF LICENSEE'S TYPICAL LABEL

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



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

**HAMILTON GLASS INDUSTRIES, INC.**  
2000 Chestnut Street  
Vincennes, Indiana 47591

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

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



FORD TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1975  
SGCC-342/729  
16CFR 1201, II  
86 3/16 U

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



125-1  
SOLID TEMPERED  
ANSI Z97.1-1975  
16CFR 1201-II  
SGCC 1062

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

FULTONTEMP  
SGCC H34 1/2" U  
16 CFR 1201-II  
SGCC H27  
ANSI Z97.1 1975



**LOF GLASS, INC.**  
811 Madison Avenue  
Toledo, Ohio 43695



TUF-FLEX® 3/16" U B  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1975 SGCC-351  
16CFR 1201-1, II SGCC-846

**GATEWAY INDUSTRIES**  
1414 South First Street  
Rogers, Arkansas 72756

GW  
TEMPERED  
16 CFR 1201 II  
SGCC-958 1/8L RI  
DOT 272 AS2 M1

**MILGARD MANUFACTURING, INC.**  
1010 54 Avenue, East  
Tacoma, Washington 98424



TEMPERED SAFETY  
ANSI Z97.1 1975  
16 CFR 1201 CII  
SGCC H02 1/4U

# EXAMPLE OF LICENSEE'S TYPICAL LABEL


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

TEMPERED  
SAFETY GLASS  
  
SGCC- 701 1/8 -U  
ANSI Z97.1-1975  
16CFR1201CII  
CGSB-12-GP-1

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

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

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

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

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

**SAN DIEGO  
TEMPERING**  
ANSI Z97.1-1975  
16 CFR 1201 II  
SGCC 1014 1/4 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 B5GH 3678

**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

**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  
16CFR 1201 II  
SGCC 173  
K2497 .095U

## EXAMPLE OF LICENSEE'S TYPICAL LABEL

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

**TEMPERED GLASS**  
**ETC** 16 CFR 1201-11  
**M/C** ANSI Z97.1-1975  
**PLH** SGCC 906-1/8"U

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

**TEMPGLASS**  
**EASTERN**  
ANSI Z97.1-1975  
16 CFR 1201-11  
SGCC-979 1/8"U  
07 79

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

**TEMCO**  
SGCC-338 1500U  
SGCC-834  
16 CFR 1201-II  
ANSI Z97.1 1975

**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**

**TEMPERED GLASS SPECIALISTS**  
U.S. 24 East; P.O. Box 533  
Antwerp, Ohio 45813

**TGS**  
**SOLE**  
**TEMPERED**  
**16CFR 1201-11**  
**AT SGCC-929**  
**3/16"U**

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

**TEMPGLASS SOUTHERN**  
**ANSI Z97.1 - 1975**  
**SGCC 1043 3/16" U**  
**16 CFR 1201 - 11**

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

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

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

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



## EXAMPLE OF LICENSEE'S TYPICAL LABEL

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

**TTG ANSI Z97.1-1975 .375U**  
**SGCC 668**  
**16 CFR 1201-2**  
**TEXAS TEMPERED GLASS CO.**  
**HOUSTON, TEXAS**

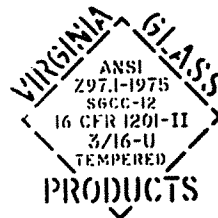
**VIDRIERIAS DE LLODIO, S.A.**  
c/o Seaply Glass Company, Ltd.  
P.O. Box 557  
Greenwich, Connecticut 06830



1/8" SGCC - 911  
tempered glass  
16 CFR 1201-II  
LLODIO - SPAIN

**TUF-FLEX GLASS DIVISION-LOF GLASS, INC.**  
811 Madison Avenue  
Toledo, Ohio 43695

• Tuf-flex Glass 1/4"-U D •  
• TEMPERED SAFETY GLASS •  
• ANSI Z97.1-1975 16 CFR 1201-I&II •  
• SGCC-298 SGCC-876 •



**TYRE BROTHERS GLASS COMPANY**  
3008 South San Pedro Street  
Los Angeles, California 90011



**16 CFR 1201 I & II**  
**SGCC 255 .500U**

## 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

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

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

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

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

Southwestern Laboratories  
2900 Cullen Street  
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. 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

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

**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 Federal Standard 16 CFR 1201 provide a sound technical basis for the required high level of safety. With the addition of independent administration plus periodic routine sampling and product evaluation, a program of product certification is developed 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 Federal Standard 16 CFR 1201 covering safety glazing materials used in buildings.

These regulations are covered in a separate Certified Products Directory.

**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 16 CFR 1201.

**ADMINISTRATION**

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

## HOW CAN YOU BECOME A LICENSEE?

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

- a) The manufacturer signs two copies of the SGCC License Agreement (including notarization of the Affidavit, Appendix A) and sends these to SGCC. SGCC will countersign both copies and return one to the manufacturer.
- b) The manufacturer directs the testing laboratory to send to SGCC one copy of a valid test report from an official SGCC recognized testing laboratory indicating full and complete compliance with the Specifications, namely 16 CFR 1201. (This is the "initial" or "prototype" testing and the sample is furnished by the manufacturer directly to any one of the SGCC recognized independent commercial testing laboratories, which the manufacturer selects.)
- c) The manufacturer sends to SGCC the six-month certification fee *for each item which is to be certified*.

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

## HOW THE CERTIFICATION PROGRAM WORKS

*SGCC recognized independent testing laboratories* conduct all tests. All laboratories, whose test reports are utilized by this Certification Program, shall be approved by the SGCC Certification Committee. Initial or prototype tests are performed at the testing laboratory selected by the licensee. Routine evaluation samples are tested by the testing laboratory selected by the Administrator.

## ADMINISTRATOR AUTHORIZES CERTIFICATION

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

Licensees label safety glazing material with the assigned SGCC number.

## PRODUCTS LISTED IN CERTIFIED PRODUCTS DIRECTORY

Approved products are listed in the Certified Products Directory, which is published at least every six months. It is sent to door, sash and building products manufacturers, glazing contractors, home builders, architects, regulatory agencies and code-making groups, etc. Directory listings contain the licensee's name, plant location, product description and a copy of the actual label that is *permanently* marked upon each piece of certified safety glazing material.

*The Administrator samples certified glazing material* from the licensee's inventory once every six months.

*An approved testing laboratory determines compliance* of these samples with the Specifications. Tests are made either at the place of manufacture or at the laboratory selected by the Administrator from the approved list. Results of each test are mailed promptly to the licensee by the Administrator.

## COMPLIANCE SAFEGUARDS

### HOW IS COMPLIANCE ASSURED?

Any certified product found in the course of routine sampling and evaluation not to be in compliance with the Specifications, is subject to having certification removed. The licensee is given a 30-day grace period in which to demonstrate to the satisfaction of the Administrator that his product is in compliance. If he does not, certification is *automatically terminated* at the end of the 30-day period.

## **CHALLENGING A CERTIFIED PRODUCT**

Complaints of non-compliance from any source will be investigated promptly by SGCC upon receipt of the complaint in writing along with an appropriate surety deposit. A minimum surety deposit of \$1,000 will be required for each complaint of non-compliance. The surety deposit will be assessed at the rate of \$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:**

\$505 administrative fee plus \$30 contingency fund fee per six months plus necessary laboratory fees for the first item at a plant for the CPSC program.

\$65 administrative fee plus \$15 contingency fund fee per six months plus necessary laboratory fees for each subsequent item at the same plant for the CPSC program.

\$630 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.

\$80 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 D. Lauter  
Tuf-flex Glass Division-LOF Glass, Inc.  
811 Madison Avenue  
Toledo, Ohio 43695

Telephone 419-247-3770

SGCC Certification Committee  
Mr. Pieter Knorr  
C-E Glass  
825 Hylton Road  
Pennsauken, New Jersey 08110

Telephone 609-662-0400

SGCC  
Mr. Robert A. Nance, P.E.  
Administrative Manager  
1640 West 32 Place  
Hialeah, Florida 33012

Telephone 305-558-1352

# 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 for safety glazing materials to 16 CFR 1201 will be accepted from any testing laboratory approved by the SGCC certification committee.

### G.3 None

### G.4

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

### G.5

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

### G.6

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

b) The label shall contain the correct SGCC number, the nominal thickness, and reference to the 16 CFR 1201 standard in the following minimum form: 16 CFR 1201 and the category to which it pertains.

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

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

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

### G.7 None

### G.8

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

### G.9

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

### G.10

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

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

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

### G.11

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

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

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

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

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

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

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

### G.12

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

### G.13

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

### G.14

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

### G.15

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

### G.16

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

### G.17

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

### G.18

Certified and permanently labeled safety glazing materials such as laminated glass, rigid plastic or organic coated glass may be cut into smaller pieces by a distributor or installer after manufacture and it

is not practical for each such smaller piece to bear a manufacturer's permanent label when finally installed in a building. When this is the case, then the distributor or installer shall apply a permanent label to each piece, which states his name and certifies that he cut the piece from material that was properly labeled in accordance with the requirements of SGCC.

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

#### G.19

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

#### G.20

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

#### G.21

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

#### G.22

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

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

b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the test requirements of 16 CFR 1201 for each alternate pattern proposed.

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

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

In the case where a routine evaluation sample covered under a blanket certification fails to comply with the Specifications the situation requires that that particular product be submitted for the retest sample required by 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 None

#### G.26

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

#### G.27

A licensee, by executing a supplementary license agreement, can elect to be in both 16 CFR 1201 and ANSI Z97.1-1975 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 safety glazing materials that are not symmetrical from surface to surface, shall be impacted one specimen on one side and one specimen on the other side for 16 CFR 1201). If any one specimen of the composite sample fails, the entire composite sample will be considered to have failed to comply with both specifications.

#### G.28

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

#### G.29

For 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

Four specimens shall be used for impact testing as detailed in 16 CFR 1201.4(a)(1). Certification of either flat glass or patterned glass will not cover the other except as noted in Guideline T.2. (Flat glass designates ground and polished plate, float and sheet glass.)

#### T.2

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

#### T.3

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

#### T.4

In cases where certified 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. 16 CFR 1201 does not require the permanent label on tempered safety glass to specify which type of glass is used. Nor is it required that the test specimens be identified in this regard.

#### TEMPERED PATTERN GLASS

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

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

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

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

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

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

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

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

**TP.2**  
The maximum thickness shall be recorded when measuring the thickness of pattern glass.

**TP.3**  
For tempered pattern glass, one specimen must be weighed and the weight of ten square inches determined from the weight, width and height of that specimen to use for 16 CFR 1201 test purposes.

**TP.4**  
For certification purposes, the nominal thickness of 210 tempered pattern glass shall be 0.210 inches and thickness tolerances shall be plus 0.031 inches and minus 0.016 inches.

#### LAMINATED GLASS

**L.1**  
Four specimens shall be used for impact testing as detailed in 16 CFR 1201.4(a)(1). Certification of regular laminated glass will also cover tinted, heat absorbing and coated glasses, both flat and bent of the same nominal thickness.

**L.2**  
In cases where certified laminated glass is normally not available for sampling the licensee may make an overrun (of four lights of prototype size that are to be marked with the date of production) when the item is in normal production and these will be accepted by the administrator if other samples are not available. Otherwise, when production samples are not available the administrator shall notify the licensee to submit prototype size samples to the administrator within six weeks.

**L.3**  
Certification of 7/32 inch laminated glass also covers SS/DS and vice versa.

**L.4**  
When a laminated glass is certified, other laminated glasses having the same thickness or thicknesses of glass and a greater thickness of plastic interlayer will be considered to be of equal nominal thickness and 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 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.

#### PLASTICS—GENERAL

**P.1**  
One piece of at least one square foot area shall be used for testing the hardness and modulus of elasticity. Certification of one tint or color of rigid plastic will also cover other tints, colors, flat configurations or bent and formed configurations.

**P.2**  
For certifying all plastics covering a range of thicknesses, prototype 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 16 CFR 1201.4(e)(2)(ii)(A) accelerated weathering test Table 1 or simulated weathering test. The equipment shall be an apparatus commercially

known as a "Weather-Ometer" or its functional equivalent incorporating a carbon arc. It shall be operated in accordance with "Standard Recommended Practice for Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Nonmetallic Materials", ASTM G 23-69, March 21, 1969, as augmented for plastics (for plastic test specimens only) by "Standard Recommended Practice for Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Plastics", ASTM D 1499-64, August 31, 1964. Specimens shall be mounted and control specimens shall be used in the manner specified in the Standard at §1201.4(d)(2)(ii)(A) or (B), as appropriate. An appropriate water spray cycle shall be used. The specimens shall be exposed in the Weather-Ometer for a period of time which, according to the manufacturer's estimate, will provide an accumulated ultraviolet irradiation equivalent to the accumulated ultraviolet irradiation of 2,000 ± 1 hours of exposure in a twin enclosed carbon-arc Weather-Ometer. Evaluate the test results by using the test criterion set forth in the Standard at §1201.4(e)(2)(ii)(A) or (B), as appropriate.

Intensified weathering test. The test equipment shall be the Equatorial Mount with Mirrors for Acceleration with Water, such as that found at the Desert Sunshine Exposure Tests, Inc. near Phoenix, Arizona. It shall be operated in accordance with "Standard Recommended Practice for Operating EMMA (QUA)R - A Fresnel-Concentrator Accelerated Weathering Machine Employing Natural Sunshine as Source", ASTM draft standard dated October 1, 1976. The standard water spray cycle of eight minutes on followed by 52 minutes off shall be used. Mounting of specimens and use of control specimens shall be specified in the Standard at §1201(d)(2)(ii)(A) or (B), as appropriate. The specimens shall be exposed to 375,000 ± 10,000 langley (375 ± 10 kilo-calories per square centimeter) of irradiation. Evaluate the test results by using the test criteria set forth in the Standard at §1201.4(e)(2)(ii)(A) or (B), as appropriate.

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

PE.2 None

PE.3

For all plastics requiring UV weathering tests an infrared spectrogram shall be obtained of all prototype weathering specimens. An infrared spectrogram shall be obtained of all routine 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, must comply with Table 1 in the Standard.

PI.2

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

PI.3

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

## ORGANIC COATED GLASS

AG.1

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

AG.2

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

AG.3 None

# January 1, 1981 Update

## Additions:

October 1, 1980 through December 31, 1980

AFG Industries, Inc.; Kingsport, Tennessee SGCC-1143 3/16 inch tempered pattern glass (s)	Unlimited Size
Cal-Temp; Santa Fe Springs, California SGCC-1157 3/16 inch tempered transparent glass	Unlimited Size
Fulton Glass Industries, Inc.; Red Oak, Georgia SGCC-1131 3/16 inch tempered transparent glass	Unlimited Size
SGCC-1132 1/4 inch tempered transparent glass	Unlimited Size
SGCC-1133 3/8 inch tempered transparent glass	Unlimited Size
SGCC-1134 1/2 inch tempered transparent glass	Unlimited Size
SGCC-1135 7/32 inch tempered pattern glass (s)	Unlimited Size
Milgard Manufacturing, Inc.; Tacoma, Washington SGCC-1101 3/16 inch tempered transparent glass	Unlimited Size
SGCC-1102 1/4 inch tempered transparent glass	Unlimited Size
PPG Industries, Inc.; Chicago, Illinois SGCC-1145 1/4 inch tempered transparent glass	Unlimited Size
PPG Industries, Inc.; Wichita Falls, Texas SGCC-1110 1/8 inch tempered transparent glass	Unlimited Size
SGCC-1111 5/32 inch tempered transparent glass	Unlimited Size
SGCC-1112 3/16 inch tempered transparent glass	Unlimited Size
Tempered Glass Corporation; Tampa, Florida SGCC-1148 3/16 inch tempered transparent glass	Unlimited Size
Tempered Glass Specialists; Antwerp, Ohio SGCC-1158 3/16 inch tempered pattern glass (d)	32" by 76"
Tempglass Southern, Inc.; Grand Prairie, Texas SGCC-1047 3/4 inch tempered transparent glass	Unlimited Size
Texas Tempered Glass Company; Houston, Texas SGCC-1159 7/32 inch laminated transparent glass (0.030)	Unlimited size
Tuf-flex Glass Division-LOF Glass, Inc.; Union City, California SGCC-1149 7/32 inch tempered pattern glass (s)	Unlimited Size

## Deletions:

Cal-Temp; Santa Fe Springs, California SGCC-1012 3/16 inch tempered transparent glass	Unlimited Size
General Glass Corporation; Denver, Colorado SGCC-1025 3/16 inch tempered transparent glass	Unlimited Size
SGCC-1026 1/4 inch tempered transparent glass	Unlimited Size
Hehr International, Inc.; Chesaning, Michigan SGCC-1070 1/8 inch tempered pattern glass (s)	32" by 60"
Oregon Tempered Glass; Wilsonville, Oregon SGCC-1091 1/8 inch tempered transparent glass	32" by 76"
SGCC-1092 3/16 inch tempered transparent glass	32" by 76"
SGCC-1093 1/4 inch tempered transparent glass	32" by 76"
SGCC-1096 1/8 inch tempered pattern glass (s)	32" by 76"
SGCC-1098 210 inch tempered pattern glass (s)	32" by 76"
PPG Industries, Inc.; Chicago, Illinois SGCC- 267 1/4 inch tempered transparent glass	Unlimited Size
Tempered Glass Corporation; Tampa, Florida SGCC- 998 3/16 inch tempered transparent glass	Unlimited Size
Tuf-flex Glass Division-LOF Glass, Inc.; Elmhurst, Illinois SGCC- 893 5/16 inch tempered transparent glass	Unlimited Size
Tuf-flex Glass Division-LOF Glass, Inc.; Saddle Brook, New Jersey SGCC- 895 5/16 inch tempered transparent glass	Unlimited Size
Tuf-flex Glass Division-LOF Glass, Inc.; Union City, California SGCC- 916 7/32 inch tempered pattern glass (s)	Unlimited Size



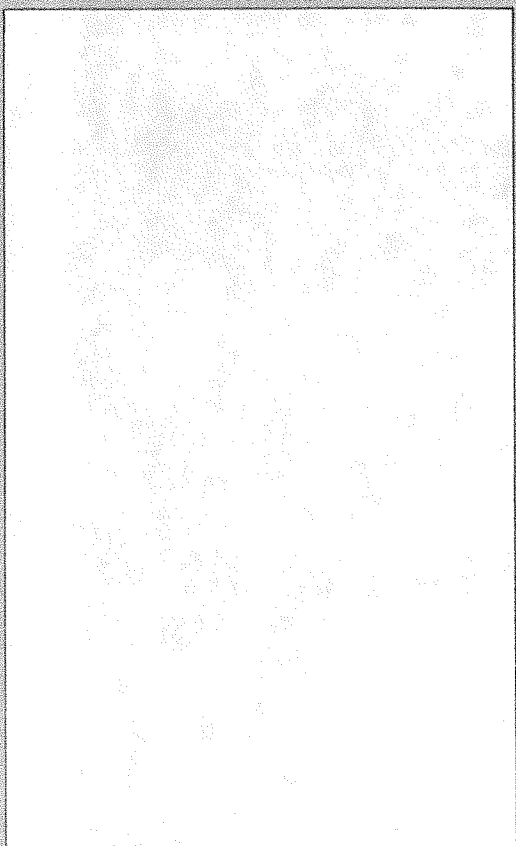
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