

JANUARY 1, 1978



safety glazing certification council

16 CFR 1201

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 27 and October 13 during 1977. 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, 1978; 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 West Bard Avenue
Bethesda, Maryland 20014

ROSTER

BOARD OF DIRECTORS

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SGCC CERTIFICATION COMMITTEE

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Licensee

ASG Industries, Inc.
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 Buchmin Industries
 M. L. Burke Company
 C-E Glass
 Canadian Pittsburgh Industries
 Central Glass Company
 Chromalloy-Safetee
 Downey Glass
 Falconer Plate Glass
 Feather-lite
 Flex-O-Glass
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 Globe-Amerada Glass Company
 Guardian Industries
 Hamilton of Indiana
 K-S-H, Inc.
 LOF Glass, Inc.
 Libbey-Owens-Ford Company
 Minex-Poland
 Northwestern Industries
 Ohio Plate Glass Company
 PPG Industries, Inc.
 Plaskolite, Inc.
 Rotuba Extruders, Inc.
 Safelite Industries
 Sheffield Plastics
 Swedcast
 Tempered Glass Corporation
 Tempglass, Inc.
 Temp-Safe, Inc.
 Texas Tempered Glass Company
 Tuf-flex Glass, Inc.
 Vidrios Securit
 Viracon, Inc.
 Virginia Glass Products
 Visador Company

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 Takayoshi Sakaida
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 Edward Rearick

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 Leroy E. Drake, Jr.

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Legal Counsel:

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Joseph B. Press, CPA

Administrative Staff

Robert A. Nance
 Nancy W. Johnson
 Carl R. Walden

SGCC BOARD OF DIRECTORS

Representing Public Interest

Mrs. J. D. Cornwell, Jr.
Route 4; Swan Lake Road
Stockbridge, Georgia 30281
Telephone 404-633-1451

Mr. Phil Dykstra
National Safety Council
444 North Michigan Avenue
Chicago, Illinois 60611
Telephone 312-527-4800

Mr. Richard C. Elstner, S. E.
Wiss, Janney, Elstner and Associates, Inc.
Consulting and Research Engineers
330 Pfingsten Road
Northbrook, Illinois 60062
Telephone 312-272-7400

Mrs. Sylvia Lav
98 Princeton Road
Rockville Center, New York 11570
Telephone 516-764-1732

Dr. Joseph E. Minor, P. E.
Institute for Disaster Research
Texas Tech University
P. O. Box 4089
Lubbock, Texas 79409
Telephone 806-742-3523

Dr. Orville L. Pierson
862 Gainsway Road
Yardley, Pennsylvania 19067
Telephone 215-493-1595

Mr. Lynford K. Snell
HUD/FHA
451 7 Street, S. W.
Washington, D. C. 20410
Telephone 202-755-5924

Representing Industry

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

Mr. Gene Gilbert
Ohio Plate Glass Company
P. O. Box 671
Lewisburg, Ohio 45338
Telephone 513-962-2696

Mr. Homer H. Goldsberry
Rotuba Extruders, Inc.
1401 Park Avenue South
Linden, New Jersey 07036
Telephone 201-486-1000

Mr. Pieter Knorr
Guardian Industries Corporation
43043 West Nine Mile Road
Northville, Michigan 48167
Telephone 313-349-6700

Mr. Richard L. Morrison
Ford Motor Company
Glass Division; 9th Floor
Parklane Towers East
One Parklane Boulevard
Dearborn, Michigan 48126
Telephone 313-322-1385

Mr. Harold G. Warp
Flex-O-Glass, Inc.
1100 North Cicero Avenue
Chicago, Illinois 60651
Telephone 312-261-5200

CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC-701 Northwestern Industries
SGCC-702 Northwestern Industries
SGCC-703 Northwestern Industries
SGCC-704 Northwestern Industries
SGCC-705 Northwestern Industries
SGCC-706 Northwestern Industries

SGCC-707 Northwestern Industries
SGCC-708 Falconer Plate Glass
SGCC-709 Falconer Plate Glass
SGCC-710 Falconer Plate Glass
SGCC-711 Falconer Plate Glass
SGCC-712 Falconer Plate Glass

SGCC-713 Plaskolite
SGCC-714 Ohio Plate Glass
SGCC-715 Ohio Plate Glass
SGCC-716 Ohio Plate Glass
SGCC-717 Ohio Plate Glass
SGCC-718 Tempglass

SGCC-719 Tempglass
SGCC-720 Tempglass
SGCC-721 Tempglass
SGCC-722 Tempglass
SGCC-723 Tempglass Western
SGCC-724 Tempglass Western

SGCC-725 Tempglass Western
SGCC-726 Tempglass Western
SGCC-727 Ford Motor Company
SGCC-728 Ford Motor Company
SGCC-729 Ford Motor Company
SGCC-730 Ford Motor Company

SGCC-731 Tyre Brothers
SGCC-732 Tyre Brothers
SGCC-733 Tyre Brothers
SGCC-734 Tyre Brothers
SGCC-735 Tyre Brothers
SGCC-736 Taylor Products

SGCC-737 Taylor Products
SGCC-738 Taylor Products
SGCC-739 Guardian Industries
SGCC-740 Guardian Industries
SGCC-741 Guardian Industries
SGCC-742 Guardian Industries

SGCC-743 Guardian Industries
SGCC-744 Guardian Industries
SGCC-745 Guardian Industries
SGCC-746 Guardian Industries
SGCC-747 Guardian Industries
SGCC-748 Guardian Industries
SGCC-749 Guardian Industries

SGCC-750 Guardian Industries
SGCC-751 Guardian Industries
SGCC-752 Guardian Industries
SGCC-753 Guardian Industries
SGCC-754 Guardian Industries
SGCC-756 Guardian Industries

SGCC-757 Guardian Industries
SGCC-758 Guardian Industries
SGCC-759 Guardian Industries
SGCC-760 Virginia Glass
SGCC-761 Virginia Glass
SGCC-762 Virginia Glass

SGCC-763 Virginia Glass
SGCC-764 Virginia Glass
SGCC-765 Virginia Glass
SGCC-766 Artistic Glass
SGCC-767 Artistic Glass
SGCC-768 Artistic Glass

SGCC-769 Feather-lite
SGCC-770 Feather-lite
SGCC-771 C-E Glass
SGCC-772 C-E Glass
SGCC-773 C-E Glass
SGCC-774 C-E Glass

SGCC-775 C-E Glass
SGCC-776 C-E Glass
SGCC-777 C-E Glass
SGCC-778 C-E Glass
SGCC-779 C-E Glass
SGCC-780 C-E Glass

SGCC-781 C-E Glass
SGCC-782 C-E Glass
SGCC-783 C-E Glass
SGCC-784 C-E Glass
SGCC-785 C-E Glass
SGCC-786 C-E Glass

SGCC-787 C-E Glass
SGCC-788 C-E Glass
SGCC-789 C-E Glass
SGCC-790 C-E Glass
SGCC-791 C-E Glass
SGCC-792 C-E Glass

SGCC-793 C-E Glass
SGCC-794 C-E Glass
SGCC-795 C-E Glass
SGCC-797 C-E Glass
SGCC-798 C-E Glass
SGCC-799 C-E Glass

CERTIFIED PRODUCTS — NUMERICAL SEQUENCE

SGCC-800 C-E Glass	SGCC-849 LOF Glass
SGCC-801 C-E Glass	SGCC-850 LOF Glass
SGCC-802 C-E Glass	SGCC-851 Libbey-Owens-Ford
SGCC-803 C-E Glass	SGCC-852 Libbey-Owens-Ford
SGCC-804 C-E Glass	SGCC-853 Libbey-Owens-Ford
SGCC-805 Downey Glass	SGCC-854 Libbey-Owens-Ford
SGCC-806 Downey Glass	SGCC-855 Libbey-Owens-Ford
SGCC-807 Downey Glass	SGCC-856 Libbey-Owens-Ford
SGCC-808 Downey Glass	SGCC-857 Libbey-Owens-Ford
SGCC-809 Downey Glass	SGCC-858 Libbey-Owens-Ford
SGCC-810 Downey Glass	SGCC-859 Libbey-Owens-Ford
SGCC-811 Downey Glass	SGCC-860 Libbey-Owens-Ford
SGCC-812 Downey Glass	SGCC-861 Libbey-Owens-Ford
SGCC-813 Downey Glass	SGCC-862 Tuf-flex
SGCC-814 Downey Glass	SGCC-863 Tuf-flex
SGCC-815 Downey Glass	SGCC-864 Tuf-flex
SGCC-816 Downey Glass	SGCC-865 Tuf-flex
SGCC-817 Downey Glass	SGCC-866 Tuf-flex
SGCC-819 ASG Industries	SGCC-867 Tuf-flex
SGCC-820 ASG Industries	SGCC-868 Tuf-flex
SGCC-821 ASG Industries	SGCC-869 Tuf-flex
SGCC-822 ASG Industries	SGCC-870 Tuf-flex
SGCC-823 ASG Industries	SGCC-871 Tuf-flex
SGCC-824 ASG Industries	SGCC-872 Tuf-flex
SGCC-825 ASG Industries	SGCC-873 Tuf-flex
SGCC-826 ASG Industries	SGCC-874 Tuf-flex
SGCC-827 ASG Industries	SGCC-875 Tuf-flex
SGCC-828 ASG Industries	SGCC-876 Tuf-flex
SGCC-829 ASG Industries	SGCC-877 Tuf-flex
SGCC-830 ASG Industries	SGCC-878 Tuf-flex
SGCC-831 Tempered Glass	SGCC-879 Tuf-flex
SGCC-832 Tempered Glass	SGCC-880 Tuf-flex
SGCC-833 Tempered Glass	SGCC-881 Tuf-flex
SGCC-834 Tempered Glass	SGCC-882 Tuf-flex
SGCC-835 Tempered Glass	SGCC-883 Hard-Temp
SGCC-836 Sheffield Plastics	SGCC-884 Carolina Processed Glass
SGCC-837 Sheffield Plastics	SGCC-885 Carolina Processed Glass
SGCC-838 Texas Tempered	SGCC-886 Carolina Processed Glass
SGCC-839 Texas Tempered	SGCC-887 Rotuba Extruders
SGCC-840 Texas Tempered	SGCC-888 Sierracin Corporation
SGCC-841 Texas Tempered	SGCC-890 C-E Glass
SGCC-842 Texas Tempered	SGCC-891 Tempglass Western
SGCC-843 Flex-O-Glass	SGCC-892 Libbey-Owens-Ford
SGCC-844 LOF Glass	SGCC-893 Tuf-flex
SGCC-845 LOF Glass	SGCC-894 Tuf-flex
SGCC-846 LOF Glass	SGCC-895 Tuf-flex
SGCC-847 LOF Glass	SGCC-897 C-E Glass
SGCC-848 LOF Glass	SGCC-898 Tuf-flex

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 17

ASG Industries, Inc.; Greenland, Tennessee

SGCC-819	1/8	inch	tempered	transparent	glass	Category II
SGCC-820	3/16	inch	tempered	transparent	glass	Category II
SGCC-821	1/4	inch	tempered	transparent	glass	Category II
SGCC-822	3/8	inch	tempered	transparent	glass	Category II
SGCC-823	1/2	inch	tempered	transparent	glass	Category II
SGCC-824	3/4	inch	tempered	transparent	glass	Category II
SGCC-825	1/8	inch	tempered	pattern	glass (shallow patterns)	Category II
SGCC-826	7/32	inch	tempered	pattern	glass (shallow patterns)	Category II

ASG Industries, Inc.; Kingsport, Tennessee

SGCC-827	3/16	inch	tempered	transparent	glass	Category II
SGCC-828	1/4	inch	tempered	transparent	glass	Category II
SGCC-829	1/8	inch	tempered	pattern	glass (shallow patterns)	Category II
SGCC-830	7/32	inch	tempered	pattern	glass (shallow patterns)	Category II

Artistic Glass Products Company; Trumbauersville, Pennsylvania

SGCC-766	1/8	inch	tempered	transparent	glass	Category II
SGCC-767	3/16	inch	tempered	transparent	glass	Category II
SGCC-768	1/4	inch	tempered	transparent	glass	Category II

C-E Glass; Atlanta, Georgia

SGCC-771	3/16	inch	tempered	transparent	glass	Category II
SGCC-772	1/4	inch	tempered	transparent	glass	Category II
SGCC-773	3/8	inch	tempered	transparent	glass	Category II
SGCC-774	7/32	inch	tempered	pattern	glass (shallow patterns)	Category II

C-E Glass; Carson, California

SGCC-775	1/8	inch	tempered	transparent	glass	Category II
SGCC-776	3/16	inch	tempered	transparent	glass	Category II
SGCC-777	1/4	inch	tempered	transparent	glass	Category II
SGCC-778	3/8	inch	tempered	transparent	glass	Category II
SGCC-779	1/2	inch	tempered	transparent	glass	Category II
SGCC-780	1/8	inch	tempered	pattern	glass (shallow patterns)	Category II
SGCC-781	5/32	inch	tempered	pattern	glass (medium patterns)	Category II
SGCC-782	3/16	inch	tempered	pattern	glass (shallow patterns)	Category II
SGCC-783	7/32	inch	tempered	pattern	glass (shallow patterns)	Category II
SGCC-784	7/32	inch	tempered	pattern	glass (medium patterns)	Category II

C-E Glass; Cinnaminson, New Jersey

SGCC-785	1/8	inch	tempered	transparent	glass	Category II
SGCC-786	3/16	inch	tempered	transparent	glass	Category II
SGCC-787	1/4	inch	tempered	transparent	glass	Category II
SGCC-788	3/8	inch	tempered	transparent	glass	Category II
SGCC-789	1/2	inch	tempered	transparent	glass	Category II
SGCC-790	7/32	inch	tempered	pattern	glass (shallow patterns)	Category II

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 17

C-E Glass; Lancaster, Ohio; Slocum Street

SGCC-791	3/16	inch	tempered transparent glass	Category II
SGCC-792	7/32	inch	tempered transparent glass	Category II

C-E Glass; Miami, Florida

SGCC-793	3/16	inch	tempered transparent glass	Category II
SGCC-794	1/4	inch	tempered transparent glass	Category II
SGCC-795	7/32	inch	tempered pattern glass (shallow patterns)	Category II

C-E Glass; Tampa, Florida

SGCC-797	3/16	inch	tempered transparent glass	Category II
SGCC-798	1/4	inch	tempered transparent glass	Category II
SGCC-890	3/8	inch	tempered transparent glass	Category II
SGCC-897	1/2	inch	tempered transparent glass	Category II
SGCC-799	7/32	inch	tempered pattern glass (shallow patterns)	Category II

C-E Glass; Warrenton, Missouri

SGCC-800	1/8	inch	tempered transparent glass	Category II
SGCC-801	3/16	inch	tempered transparent glass	Category II
SGCC-802	1/4	inch	tempered transparent glass	Category II
SGCC-803	1/8	inch	tempered pattern glass (shallow patterns)	Category II
SGCC-804	7/32	inch	tempered pattern glass (shallow patterns)	Category II

Carolina Processed Glass, Inc.; Rock Hill, South Carolina

SGCC-884	3/16	inch	tempered transparent glass	Category II
SGCC-885	1/4	inch	tempered transparent glass	Category II
SGCC-886	3/8	inch	tempered transparent glass	Category II

Downey Glass Company; Downey, California

SGCC-805	1/8	inch	tempered transparent glass	Category II
SGCC-806	3/16	inch	tempered transparent glass	Category II
SGCC-807	1/4	inch	tempered transparent glass	Category II
SGCC-808	1/8	inch	tempered pattern glass (shallow patterns)	Category II
SGCC-809	1/8	inch	tempered pattern glass (medium patterns)	Category II
SGCC-810	3/16	inch	tempered pattern glass (shallow patterns)	Category II
SGCC-811	7/32	inch	tempered pattern glass (shallow patterns)	Category II

Downey Glass Company; Los Angeles, California

SGCC-812	3/16	inch	tempered transparent glass	Category II
SGCC-813	1/4	inch	tempered transparent glass	Category II
SGCC-814	3/8	inch	tempered transparent glass	Category II
SGCC-815	1/2	inch	tempered transparent glass	Category II
SGCC-816	3/16	inch	tempered pattern glass (shallow patterns)	Category II
SGCC-817	7/32	inch	tempered pattern glass (shallow patterns)	Category II

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 17

Falconer Plate Glass Corporation; Falconer, New York

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

Feather-lite Manufacturing Company; Malvern, Arkansas

SGCC-769	1/8	inch	tempered transparent glass	Category II
SGCC-770	3/16	inch	tempered transparent glass	Category II

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

SGCC-843	0.080	inch	through 0.125 inch smooth extruded acrylic	Category II
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Ford Motor Company; Dearborn, Michigan

SGCC-727	1/8	inch	tempered transparent glass	Category II
SGCC-728	5/32	inch	tempered transparent glass (32 ounce)	Category II
SGCC-729	3/16	inch	tempered transparent glass	Category II
SGCC-730	1/4	inch	tempered transparent glass	Category II

Guardian Industries Corporation; Carleton, Michigan

SGCC-739	3/16	inch	tempered transparent glass	Category II
SGCC-740	1/4	inch	tempered transparent glass	Category II
SGCC-741	3/8	inch	tempered transparent glass	Category II
SGCC-742	1/2	inch	tempered transparent glass	Category II

Guardian Industries Corporation; Fort Lauderdale, Florida

SGCC-743	3/16	inch	tempered transparent glass	Category II
SGCC-744	1/4	inch	tempered transparent glass	Category II
SGCC-745	3/8	inch	tempered transparent glass	Category II
SGCC-746	7/32	inch	tempered pattern glass (shallow patterns)	Category II

Guardian Industries Corporation; Torrance, California

SGCC-747	3/16	inch	tempered transparent glass	Category II
SGCC-748	7/32	inch	tempered transparent glass	Category II
SGCC-749	1/4	inch	tempered transparent glass	Category II
SGCC-750	3/8	inch	tempered transparent glass	Category II
SGCC-751	1/2	inch	tempered transparent glass	Category II
SGCC-752	7/32	inch	tempered pattern glass (shallow patterns)	Category II

Guardian Industries Corporation; Upper Sandusky, Ohio

SGCC-753	7/32	inch	laminated transparent glass (0.015 inch plastic)	Category II
SGCC-754	1/4	inch	laminated transparent glass (0.015 inch plastic)	Category II

Guardian Industries Corporation; Webster, Massachusetts

SGCC-756	1/8	inch	tempered transparent glass	Category II
SGCC-757	3/16	inch	tempered transparent glass	Category II
SGCC-758	1/4	inch	tempered transparent glass	Category II
SGCC-759	3/8	inch	tempered transparent glass	Category II

Category II

Temp; Denver, Colorado
 -883 1/4 inch tempered transparent glass
 Glass, Inc.; Laurinburg, North Carolina
 -844 1/8 inch tempered transparent glass
 C-845 5/32 inch tempered transparent glass (32 ounce)
 C-846 3/16 inch tempered transparent glass
 C-847 1/4 inch tempered transparent glass
 CC-848 5/16 inch tempered transparent glass
 CC-849 3/8 inch tempered transparent glass
 CC-850 1/2 inch tempered transparent glass

Category II
 Category II
 Category II
 Category II
 Category II
 Category II
 Category II

Libbey-Owens-Ford Company; East Toledo, Ohio
 GCC-851 SS/SS laminated transparent glass (0.015 inch plastic)
 SGCC-852 SS/DS laminated transparent glass (0.015 inch plastic)
 SGCC-853 1/4 inch laminated transparent glass (0.015 inch plastic)
 SGCC-892 1/2 inch laminated transparent glass (0.030 inch plastic)

Category II
 Category II
 Category II
 Category II

Libbey-Owens-Ford Company; Rossford, Ohio
 SGCC-854 3/16 inch tempered transparent glass
 SGCC-855 1/4 inch tempered transparent glass
 SGCC-856 5/16 inch tempered transparent glass
 SGCC-857 3/8 inch tempered transparent glass
 SGCC-858 1/2 inch tempered transparent glass
 SGCC-859 5/8 inch tempered transparent glass
 SGCC-860 3/4 inch tempered transparent glass
 SGCC-861 7/8 inch tempered transparent glass

Category II
 Category II
 Category II
 Category II
 Category II
 Category II
 Category II

Northwestern Industries, Inc.; Seattle, Washington
 SGCC-701 1/8 inch tempered transparent glass
 SGCC-702 5/32 inch tempered transparent glass (32 ounce)
 SGCC-703 3/16 inch tempered transparent glass
 SGCC-704 1/4 inch tempered transparent glass
 SGCC-705 3/8 inch tempered transparent glass
 SGCC-706 1/2 inch tempered transparent glass
 SGCC-707 7/32 inch tempered pattern glass (shallow patterns)

Category II
 Category II
 Category II
 Category II
 Category II
 Category II
 Category II

Ohio Plate Glass Company; Lewisburg, Ohio
 SGCC-714 1/8 inch tempered transparent glass
 SGCC-715 3/16 inch tempered transparent glass
 SGCC-716 7/32 inch tempered transparent glass
 SGCC-717 1/4 inch tempered transparent glass

Category II
 Category II
 Category II
 Category II

Category II

Plaskolite, Inc.; Columbus, Ohio
 SGCC-713 0.080 inch through 0.125 inch smooth extruded acrylic

Rotuba Extruders, Inc.; Linden, New Jersey
SGCC-887 0.080 inch and greater thicknesses smooth extruded acrylic Cat

Sheffield Plastics, Inc.; Sheffield, Massachusetts
SGCC-836 0.080 inch through 0.125 inch smooth extruded acrylic Cate
SGCC-837 0.060 inch and greater thicknesses smooth extruded polycarbonate Cate

Sierracin Corporation; Sylmar, California
SGCC-888 7/16 inch laminated transparent glass 0.100 annealed glass: 0.060 PVB:
0.125 polycarbonate: 0.060 PVB:
0.100 annealed glass

Taylor Products, Inc.; Payne, Ohio
SGCC-736 3/16 inch tempered transparent glass
SGCC-737 1/4 inch tempered transparent glass
SGCC-738 7/32 inch tempered pattern glass (shallow patterns) Categor

Tempered Glass Corporation; Tampa, Florida
SGCC-831 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 transparent glass
SGCC-835 7/32 inch tempered pattern glass (shallow patterns) Category I
Category I
Category I
Category II
Category II

Tempglass, Inc.; Perrysburg, Ohio
SGCC-718 3/16 inch tempered transparent glass
SGCC-719 1/4 inch tempered transparent glass
SGCC-720 3/8 inch tempered transparent glass
SGCC-721 1/2 inch tempered transparent glass
SGCC-722 7/32 inch tempered transparent glass
SGCC-722 7/32 inch tempered pattern glass (shallow patterns) Category II
Category II
Category II
Category II
Category II
Category II

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-891 7/32 inch tempered transparent glass
SGCC-891 7/32 inch tempered pattern glass (shallow patterns) Category II
Category II
Category II
Category II
Category II
Category II

Texas Tempered Glass Company; Houston, Texas
SGCC-838 3/16 inch tempered transparent glass
SGCC-839 1/4 inch tempered transparent glass
SGCC-840 3/8 inch tempered transparent glass
SGCC-841 1/2 inch tempered transparent glass
SGCC-842 7/32 inch laminated transparent glass (0.015 inch plastic) Category II
Category II
Category II
Category II
Category II
Category II

CERTIFIED PRODUCTS ALPHABETICAL BY PLANT

FOR LISTING BY PRODUCT TYPE, PLEASE SEE PAGE 17

Tuf-flex Glass, Inc.; Atlanta, Georgia						
SGCC-862	3/16	inch	tempered	transparent	glass	Category II
SGCC-863	1/4	inch	tempered	transparent	glass	Category II
SGCC-864	5/16	inch	tempered	transparent	glass	Category II
SGCC-865	3/8	inch	tempered	transparent	glass	Category II
SGCC-866	1/2	inch	tempered	transparent	glass	Category II
Tuf-flex Glass, Inc.; Elmhurst, Illinois						
SGCC-867	3/16	inch	tempered	transparent	glass	Category II
SGCC-868	1/4	inch	tempered	transparent	glass	Category II
SGCC-893	5/16	inch	tempered	transparent	glass	Category II
SGCC-869	3/8	inch	tempered	transparent	glass	Category II
SGCC-870	1/2	inch	tempered	transparent	glass	Category II
Tuf-flex Glass, Inc.; Irving, Texas						
SGCC-871	3/16	inch	tempered	transparent	glass	Category II
SGCC-872	1/4	inch	tempered	transparent	glass	Category II
SGCC-894	5/16	inch	tempered	transparent	glass	Category II
SGCC-873	3/8	inch	tempered	transparent	glass	Category II
SGCC-874	1/2	inch	tempered	transparent	glass	Category II
SGCC-898	7/32	inch	tempered	pattern	glass (shallow patterns)	Category II
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey						
SGCC-875	3/16	inch	tempered	transparent	glass	Category II
SGCC-876	1/4	inch	tempered	transparent	glass	Category II
SGCC-895	5/16	inch	tempered	transparent	glass	Category II
SGCC-877	3/8	inch	tempered	transparent	glass	Category II
SGCC-878	1/2	inch	tempered	transparent	glass	Category II
Tuf-flex Glass, Inc.; Union City, California						
SGCC-879	3/16	inch	tempered	transparent	glass	Category II
SGCC-880	1/4	inch	tempered	transparent	glass	Category II
SGCC-881	3/8	inch	tempered	transparent	glass	Category II
SGCC-882	1/2	inch	tempered	transparent	glass	Category II
Tyre Brothers Glass Company; Los Angeles, California						
SGCC-731	3/16	inch	tempered	transparent	glass	Category II
SGCC-732	1/4	inch	tempered	transparent	glass	Category II
SGCC-733	3/8	inch	tempered	transparent	glass	Category II
SGCC-734	1/2	inch	tempered	transparent	glass	Category II
SGCC-735	7/32	inch	tempered	pattern	glass (shallow patterns)	Category II
Virginia Glass Products Corporation; Martinsville, Virginia						
SGCC-760	3/16	inch	tempered	transparent	glass	Category II
SGCC-761	1/4	inch	tempered	transparent	glass	Category II
SGCC-762	3/8	inch	tempered	transparent	glass	Category II
SGCC-763	1/2	inch	tempered	transparent	glass	Category II
SGCC-764	3/4	inch	tempered	transparent	glass	Category II
SGCC-765	7/32	inch	tempered	pattern	glass (shallow patterns)	Category II

CLASSIFIED TEMPERED GLASS PATTERNS

1/8 inch shallow

(01) P-516	(02) Luxlite	(03) Factrolite	(09) Spray Lite	(32) Murallex
(34) Velvex	(36) Ribbed	(37) Aquatex	(38) Finetex	(39) Industrex
(82) Pattern 62	(83) Pointex			

1/8 inch medium

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

1/8 inch deep

(10) Autumn

5/32 inch shallow

(59) Luxlite	(60) Factrolite	(64) Spray Lite	(70) Murallex	(72) Velvex
(74) Ribbed	(75) Aquatex	(76) Finetex	(81) Pattern 6	

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) Shower lite
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3/16 inch medium

(58) Pattern 76

3/16 inch deep

(12) Oceanic	(13) Roundel	(41) Lozenge
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7/32 inch shallow

(14) Velvex	(15) Murallex	(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

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

TEMPERED TRANSPARENT GLASS

1/8 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-819
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-766
C-E Glass; Carson, California	SGCC-775
C-E Glass; Cinnaminson, New Jersey	SGCC-785
C-E Glass; Warrenton, Missouri	SGCC-800
Downey Glass Company; Downey, California	SGCC-805
Feather-lite Manufacturing Company; Malvern, Arkansas	SGCC-769
Ford Motor Company; Dearborn, Michigan	SGCC-727
Guardian Industries Corporation; Webster, Massachusetts	SGCC-756
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-844
Northwestern Industries, Inc.; Seattle, Washington	SGCC-701
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-714

5/32 inch tempered transparent glass (32 ounce)

Ford Motor Company; Dearborn, Michigan	SGCC-728
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-845
Northwestern Industries, Inc.; Seattle, Washington	SGCC-702

3/16 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-820
ASG Industries, Inc.; Kingsport, Tennessee	SGCC-827
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-767
C-E Glass; Atlanta, Georgia	SGCC-771
C-E Glass; Carson, California	SGCC-776
C-E Glass; Cinnaminson, New Jersey	SGCC-786
C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-791
C-E Glass; Miami, Florida	SGCC-793
C-E Glass; Tampa, Florida	SGCC-797
C-E Glass; Warrenton, Missouri	SGCC-801
Carolina Processed Glass, Inc.; Rock Hill, South Carolina	SGCC-884
Downey Glass Company; Downey, California	SGCC-806
Downey Glass Company; Los Angeles, California	SGCC-812
Falconer Plate Glass Corporation; Falconer, New York	SGCC-708
Feather-lite Manufacturing Company; Malvern, Arkansas	SGCC-770
Ford Motor Company; Dearborn, Michigan	SGCC-729
Guardian Industries Corporation; Carleton, Michigan	SGCC-739
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-743
Guardian Industries Corporation; Torrance, California	SGCC-747
Guardian Industries Corporation; Webster, Massachusetts	SGCC-757
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-846
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-854
Northwestern Industries, Inc.; Seattle, Washington	SGCC-703
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-715
Taylor Products, Inc.; Payne, Ohio	SGCC-736
Tempered Glass Corporation; Tampa, Florida	SGCC-831
Tempglass, Inc.; Perrysburg, Ohio	SGCC-718
Tempglass Western, Inc.; Fremont, California	SGCC-723
Texas Tempered Glass Company; Houston, Texas	SGCC-838
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-862

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

3/16 inch tempered transparent glass - continued

Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-867
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-871
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-875
Tuf-flex Glass, Inc.; Union City, California	SGCC-879
Tyre Brothers Glass Company; Los Angeles, California	SGCC-731
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-760

7/32 inch tempered transparent glass

C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-792
Guardian Industries Corporation; Torrance, California	SGCC-748
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-716

1/4 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-821
ASG Industries, Inc.; Kingsport, Tennessee	SGCC-828
Artistic Glass Products Company; Trumbauersville, Pennsylvania	SGCC-768
C-E Glass; Atlanta, Georgia	SGCC-772
C-E Glass; Carson, California	SGCC-777
C-E Glass; Cinnaminson, New Jersey	SGCC-787
C-E Glass; Miami, Florida	SGCC-794
C-E Glass; Tampa, Florida	SGCC-798
C-E Glass; Warrenton, Missouri	SGCC-802
Carolina Processed Glass, Inc.; Rock Hill, South Carolina	SGCC-885
Downey Glass Company; Downey, California	SGCC-807
Downey Glass Company; Los Angeles, California	SGCC-813
Falconer Plate Glass Corporation; Falconer, New York	SGCC-709
Ford Motor Company; Dearborn, Michigan	SGCC-730
Guardian Industries Corporation; Carleton, Michigan	SGCC-740
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-744
Guardian Industries Corporation; Torrance, California	SGCC-749
Guardian Industries Corporation; Webster, Massachusetts	SGCC-758
Hard-Temp; Denver, Colorado	SGCC-883
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-847
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-855
Northwestern Industries, Inc.; Seattle, Washington	SGCC-704
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-717
Taylor Products, Inc.; Payne, Ohio	SGCC-737
Tempered Glass Corporation; Tampa, Florida	SGCC-832
Tempglass, Inc.; Perrysburg, Ohio	SGCC-719
Tempglass Western, Inc.; Fremont, California	SGCC-724
Texas Tempered Glass Company; Houston, Texas	SGCC-839
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-863
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-868
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-872
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-876
Tuf-flex Glass, Inc.; Union City, California	SGCC-880
Tyre Brothers Glass Company; Los Angeles, California	SGCC-732
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-761

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

5/16 inch tempered transparent glass

LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-848
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-856
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-864
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-893
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-894
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-895

3/8 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-822
C-E Glass; Atlanta, Georgia	SGCC-773
C-E Glass; Carson, California	SGCC-778
C-E Glass; Cinnaminson, New Jersey	SGCC-788
C-E Glass; Tampa, Florida	SGCC-890
Carolina Processed Glass, Inc.; Rock Hill, South Carolina	SGCC-886
Downey Glass Company; Los Angeles, California	SGCC-814
Falconer Plate Glass Corporation; Falconer, New York	SGCC-710
Guardian Industries Corporation; Carleton, Michigan	SGCC-741
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-745
Guardian Industries Corporation; Torrance, California	SGCC-750
Guardian Industries Corporation; Webster, Massachusetts	SGCC-759
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-849
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-857
Northwestern Industries, Inc.; Seattle, Washington	SGCC-705
Tempered Glass Corporation; Tampa, Florida	SGCC-833
Tempglass, Inc.; Perrysburg, Ohio	SGCC-720
Tempglass Western, Inc.; Fremont, California	SGCC-725
Texas Tempered Glass Company; Houston, Texas	SGCC-840
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-865
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-869
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-873
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-877
Tuf-flex Glass, Inc.; Union City, California	SGCC-881
Tyre Brothers Glass Company; Los Angeles, California	SGCC-733
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-762

1/2 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-823
C-E Glass; Carson, California	SGCC-779
C-E Glass; Cinnaminson, New Jersey	SGCC-789
C-E Glass; Tampa, Florida	SGCC-897
Downey Glass Company; Los Angeles, California	SGCC-815
Falconer Plate Glass Corporation; Falconer, New York	SGCC-711
Guardian Industries Corporation; Carleton, Michigan	SGCC-742
Guardian Industries Corporation; Torrance, California	SGCC-751
LOF Glass, Inc.; Laurinburg, North Carolina	SGCC-850
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-858
Northwestern Industries, Inc.; Seattle, Washington	SGCC-706
Tempered Glass Corporation; Tampa, Florida	SGCC-834
Tempglass, Inc.; Perrysburg, Ohio	SGCC-721
Tempglass Western, Inc.; Fremont, California	SGCC-726

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

1/2 inch tempered transparent glass - continued

Texas Tempered Glass Company; Houston, Texas	SGCC-841
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-866
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-870
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-874
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-878
Tuf-flex Glass, Inc.; Union City, California	SGCC-882
Tyre Brothers Glass Company; Los Angeles, California	SGCC-734
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-763

5/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-859
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3/4 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-824
Falconer Plate Glass Corporation; Falconer, New York	SGCC-712
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-860
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-764

7/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-861
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TEMPERED PATTERN GLASS

1/8 inch tempered pattern glass (shallow patterns)

ASG Industries, Inc.; Greenland, Tennessee	SGCC-825
ASG Industries, Inc.; Kingsport, Tennessee	SGCC-829
C-E Glass; Carson, California	SGCC-780
C-E Glass; Warrenton, Missouri	SGCC-803
Downey Glass Company; Downey, California	SGCC-808

1/8 inch tempered pattern glass (medium patterns)

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

C-E Glass; Carson, California	SGCC-781
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3/16 inch tempered pattern glass (shallow patterns)

C-E Glass; Carson, California	SGCC-782
Downey Glass Company; Downey, California	SGCC-810
Downey Glass Company; Los Angeles, California	SGCC-816

7/32 inch tempered pattern glass (shallow patterns)

ASG Industries, Inc.; Greenland, Tennessee	SGCC-826
ASG Industries, Inc.; Kingsport, Tennessee	SGCC-830
C-E Glass; Atlanta, Georgia	SGCC-774
C-E Glass; Carson, California	SGCC-783
C-E Glass; Cinnaminson, New Jersey	SGCC-790
C-E Glass; Miami, Florida	SGCC-795
C-E Glass; Tampa, Florida	SGCC-799
C-E Glass; Warrenton, Missouri	SGCC-804
Downey Glass Company; Downey, California	SGCC-811

CERTIFIED PRODUCTS BY PRODUCT TYPE

FOR LISTING BY MANUFACTURING PLANT, PLEASE SEE PAGE 10

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

Downey Glass Company; Los Angeles, California	SGCC-817
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-746
Guardian Industries Corporation; Torrance, California	SGCC-752
Northwestern Industries, Inc.; Seattle, Washington	SGCC-707
Taylor Products, Inc.; Payne, Ohio	SGCC-738
Tempered Glass Corporation; Tampa, Florida	SGCC-835
Tempglass, Inc.; Perrysburg, Ohio	SGCC-722
Tempglass Western, Inc.; Fremont, California	SGCC-891
Tuf-flex Glass, Inc.; Irving, Texas	SGCC-898
Tyre Brothers Glass Company; Los Angeles, California	SGCC-735
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-765

7/32 inch tempered pattern glass (medium patterns)

C-E Glass; Carson, California	SGCC-784
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LAMINATED TRANSPARENT GLASS

SS/SS laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic)	SGCC-851
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SS/DS laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic)	SGCC-852
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7/32 inch laminated transparent glass

Guardian Industries Corporation; Upper Sandusky, Ohio (0.015 inch plastic)	SGCC-753
Texas Tempered Glass Company; Houston, Texas (0.015 inch plastic)	SGCC-842

1/4 inch laminated transparent glass

Guardian Industries Corporation; Upper Sandusky, Ohio (0.015 inch plastic)	SGCC-754
Libbey-Owens-Ford Company; East Toledo, Ohio (0.015 inch plastic)	SGCC-853

7/16 inch laminated transparent glass

Sierracin Corporation; Sylmar, California	SGCC-888
0.100 annealed glass: 0.060 PVB:	
0.125 polycarbonate: 0.060 PVB:	
0.100 annealed glass	

1/2 inch laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio (0.030 inch plastic)	SGCC-892
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SAFETY PLASTIC SHEET

0.060 inch and greater thicknesses polycarbonate

Sheffield Plastics, Inc.; Sheffield, Massachusetts (extruded; smooth)	SGCC-837
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0.080 inch through 0.125 inch acrylic

Flex-O-Glass, Inc.; Dixon, Illinois (extruded; smooth)	SGCC-843
Plaskolite, Inc.; Columbus, Ohio (extruded; smooth)	SGCC-713
Sheffield Plastics, Inc.; Sheffield, Massachusetts (extruded; smooth)	SGCC-836

0.080 inch and greater thicknesses acrylic

Rotuba Extruders, Inc.; Linden, New Jersey (extruded; smooth)	SGCC-887
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SGCC LABEL REQUIREMENTS

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

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

The laboratory shall verify that the label has the correct SGCC number, the nominal thickness and reference (in any manner desired by the licensee) to the federal standard 16 CFR 1201 and product category.

Safety plastic sheet for indoor use only must indicate the wording "Indoor Use Only", the correct SGCC number, the nominal thickness and reference (in any manner desired by the licensee) to the federal standard 16 CFR 1201 and product category.

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

The permanent label must be affixed only to safety glazing materials of the participant's own manufacture, which has been certified by SGCC.

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

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

* * * * *

Labels will be incorporated in these Certified Products Directories effective July 1, 1978.

LICENSEES

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

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

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

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

CAROLINA PROCESSED GLASS, INC.
1900 Midland Street
P.O. Box 11339
Rock Hill, South Carolina 29730

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

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

HARD-TEMP DIVISION OF
HARDING GLASS INDUSTRIES, INC.
2340 East 40 Avenue
Denver, Colorado 80205

DOWNEY GLASS COMPANY
5631 Ferguson Drive
Los Angeles, California 90022

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

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

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

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

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

LICENSEES

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

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

PLASKOLITE, INC.
1770 Joyce Avenue
Columbus, Ohio 43219

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

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

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

SHEFFIELD PLASTICS, INC.
Salisbury Road
Sheffield, Massachusetts 01257

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

SIERRACIN CORPORATION
12780 San Fernando Road
Sylmar, California 91342

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

TAYLOR PRODUCTS, INC.
Laura Avenue
Payne, Ohio 45880

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

TEMPERED GLASS CORPORATION
6900 Adamo Drive
Tampa, Florida 33619

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 participants.

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

GENERAL INFORMATION

The Certification Concept

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

To buyers, specifiers, code officials and users, the SGCC certification label offers the manufacturer's *assurance* that his architectural glazing material has been *produced in conformance* to Federal Standard 16 CFR 1201 covering architectural safety glazing materials.

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

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 Architectural Certification Program. CSC maintains the SGCC Office of Certification and handles the routine day to day business. All transactions are done in the name of SGCC.

How Can You Become a Participant?

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

- a] The manufacturer signs two copies of the SGCC License Agreement (including notarization of the Affidavit, Appendix A) and sends these to SGCC. SGCC will countersign both copies and return one to the manufacturer.
- b] The manufacturer sends to SGCC one copy of a valid test report from an official SGCC recognized prototype testing laboratory indicating full and complete compliance with the Specifications, namely 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 prototype testing laboratories, which the manufacturer selects.)
- c] The manufacturer sends to SGCC the six-month certification fee *for each item which is to be certified*.

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

HOW THE CERTIFICATION PROGRAM WORKS

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

Administrator Authorizes Certification

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

Participants Label Architectural 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 participant'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 participant's inventory once every six months.

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

COMPLIANCE SAFEGUARDS

How is Compliance Assured?

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

Challenging a Certified Product

Complaints of non-compliance from any source will be investigated promptly by SGCC upon receipt of the complaint in writing along with an appropriate surety deposit. A minimum surety deposit of \$1,000 will be required for each complaint of non-compliance. The surety deposit will be assessed at the rate of \$250 per man day *plus* the reasonable costs of travel and the maintenance entailed in resolving such incidents. Refunds of part or all of the surety deposit will be made when applicable. All costs involved will be paid from the complainant's surety deposit, *unless* the investigation proves non-compliance, *in which case all costs will be borne by the participant found to be in non-compliance.*

Voluntary Withdrawal of Certified Product

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

COSTS

What Does The Program Cost?

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

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

Program Costs

\$385 administrative fee plus \$30 contingency fund fee per six months plus necessary laboratory fees for the first item at a plant.

\$45 administrative fee plus \$15 contingency fund fee per six months plus necessary laboratory fees for each subsequent product at the same plant.

CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS

License Agreement

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

Future Amendments or Revisions to the License Agreement will be recommended by the SGCC Certification Committee and enacted by the SGCC Board of Directors.

Effective Date, Duration and Termination

The License Agreement becomes effective on the date of its execution; has an initial duration of six months (adjustable to a January 1 to July 1 or a July 1 to January 1 basis), and is automatically renewed for successive, additional periods of six months, unless either party gives notice at least sixty days prior to date of expiration that cancellation is requested or unless revoked by SGCC for causes set forth in the document.

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

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

Administrative Service Agreement

This agreement, entered into by SGCC and Certification Services Corporation, governs the relationship between SGCC and CSC, the independent Administrator. In general, it provides that the Administrator:

- a) samples certified products routinely
- b) has the right to witness any and all testing 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 participants, maintaining a bank account and dispersing funds (fiscal reports are made to the SGCC Certification Committee)
- h) furnishes all testing except for prototype tests

- i) attends all scheduled meetings of the SGCC Certification Committee and
- j) in all of its actions acts in the name of SGCC.

Procedural Guide

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

Certified Products Directory

This directory is the one document and publication that is normally in the public's eye and contains a listing of the certified safety glazing materials of each participant.

Certification Label

This Certification Mark is permanently affixed to each piece of certified architectural safety glazing material by the participant. It contains a code that refers to the listing in the Certified Products Directory. The listing then provides a complete product description including the company name, plant location, etc.

PROGRAM RESPONSIBILITY

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

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

- a] establishes certification "guidelines"
- b] determines the applicability of the Specifications in a specific situation where a question is raised by a participant or the Administrator
- c] approves Test Laboratories
- d] determines which of the Specifications are to be designated effective for the purposes of product certification and the date or dates on which they become effective
- e] recommends to the SGCC Board of Directors changes to be made in the License Agreement.

COMMUNICATIONS

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

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

SGCC Certification Committee
Mr. Gene Gilbert, Chairman
Ohio Plate Glass Company
P. O. Box 671
Lewisburg, Ohio 45338
Telephone 513-962-2686

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

SGCC
Ms. Nancy W. Johnson
Administrative Assistant
1640 West 32 Place
Hialeah, Florida 33012
Telephone 305-558-1352

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SGCC PARTICIPANTS WITHOUT A CERTIFIED PRODUCT

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

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

Dr. Martin I. Cohen
Standard Packaging Corporation
National Metallizing Division
Cranbury, New Jersey 08512

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

SGCC APPROVED TESTING LABORATORIES

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

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

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

Inspection and Research Laboratories
1313 North Miller; Suite J
Anaheim, California 92806
Attention: Mr. W. Bradford Smith
Telephone 714-993-6020

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

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

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

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

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CERTIFICATION GUIDELINES AND INTERPRETATIONS

For guidance in certifying architectural 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 architectural 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 architectural safety glazing material, each lite in the construction must be of safety glazing material.

G. 5

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

G. 6

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

b) The laboratory shall verify that the label has the correct SGCC number, the nominal thickness and reference (in any manner desired by the licensee) to the federal standard 16 CFR 1201 and product category.

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

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

G. 7

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 participant's premises or requests participant's samples when none are available at the time of sampling:

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

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

G. 11

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

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

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

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

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

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

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

G. 12

If a participant who manufactures a certified product outside the 48 contiguous States feels that in a particular instance that he will be unable to act as provided for in paragraph 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 participant shall notify the administrator at least two weeks in advance of any production of such item.

G. 14

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

G. 15

In the situation where a participant desires to recertify a product that previously had certification removed because of failure to comply with the Specifications (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 participant.

G. 16

The nominal thickness designations in SGCC authorized permanent labels for architectural 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 architectural 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 architectural 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.

or 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.

i. 19

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

i. 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.

i. 21

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

i. 22

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

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

) 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.

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

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

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

i. 23

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

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

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

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

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

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

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

G. 24

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

G. 25

None.

G. 26

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

G. 27

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

G. 28

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

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 participant may make an overrun (of four lights of prototype size that are to be marked with the date of production) when

the item is in normal production and these will be accepted by the administrator if other samples are not available. Otherwise, when production samples are not available the administrator shall notify the participant to submit prototype size samples to the administrator within six weeks.

T. 5

Certification of any nominal thickness of tempered safety plate, float or sheet glass will also cover the other two types. 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 participant has a certified product in that thickness and class, the new pattern may, at the request of the participant, be included under the same SGCC certification number.

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.

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

L. 3

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

L. 4

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

L. 5

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

L. 6

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

L. 7

For certification purposes the following thickness tolerances shall be used. Thickness tolerance shall apply only to the overall nominal thickness. The plus tolerance shall be the sum of all of the individual plus tolerances of each layer of the laminate. The minus tolerance shall be the sum of all of the individual minus tolerances of each layer of the laminate.

The tolerance of the plastic interlayer 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 of hardness and modulus of elasticity. Certification of one tint or color of rigid plastic will also cover other tints, colors, flat configurations and 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 continuous 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).

y "Standard Recommended Practice for Operating Light-and-Water-
xposure Apparatus (Carbon-Arc Type) for Exposure of Plastics,"
STM D 1499-64, August 31, 1964. Specimens shall be mounted and
ontrol specimens shall be used in the manner specified in the Standard
t S1201.4(d) (2) (ii) (A) or (B) as appropriate. An appropriate water
pray cycle shall be used. The specimens shall be exposed in the
eather-Ometer for a period of time which, according to the manufacturer's
stimate, will provide an accumulated ultraviolet irradiation equivalent
o the accumulated ultraviolet irradiation of $2,000 \pm 1$ hours of exposure
i a twin enclosed carbon-arc Weather-Ometer. Evaluate the test results
y using the test criterion set forth in the Standard at S1201.4(e) (2) (ii)
A) or (B), as appropriate.

ntensified weathering test. The test equipment shall be the Equator-
il Mount with Mirrors for Acceleration with Water, such as that found
t the Desert Sunshine Exposure Tests, Inc. near Phoenix, Arizona. It
hall be operated in accordance with "Standard Recommended Practice
r Operating EMMA (QUA)R — A Fresnel-Concentrator Accelerated
eathering Machine Employing Natural Sunshine as Source," ASTM
raft standard dated October 1, 1976. The standard water spray cycle of
ight minutes on followed by 52 minutes off shall be used. Mounting of
pecimens and use of control specimens shall be as specified in the
tandard at S1201.4(d) (2) (ii) (A) or (B), as appropriate. The specimens
hall be exposed to $375,000 \pm 10,000$ langley (375 \pm 10 kilo-calories
er square centimeter) of irradiation. Evaluate the test results by using
ie test criteria set forth in the standard at S1201.4(e) (2) (ii) (A) or (B),
s appropriate.

utdoor weather test. The specimens shall be exposed in outdoor
xposure test racks set facing the equator at an angle from the horizontal
qual to the latitude of the exposure site. The specimens shall be exposed
o $375,000 \pm 10,000$ langley (375 \pm 10 kilo-calories per square centi-
eter) of irradiation. Mounting of specimens and use of control speci-
ens shall be as specified in the Standard at S1201.4(d) (2) (ii) (A) or
3), as appropriate. Evaluate the test results by using the test criteria set
orth in the Standard at S1201.4(e) (2) (ii) (A) or (B), as appropriate.

E. 2

None.

E. 3

or all plastics requiring UV weathering tests an infrared spectrogram
hall be obtained of all prototype weathering specimens. An infrared

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

PE. 4

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

PLASTICS — INDOOR USE ONLY

PI. 1

Sheet plastics used in indoor application 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 spectro-
gram 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.23 must be imprinted upon or applied to a surface of the plastic for all
plastic coated annealed glasses.

* * * * *



safety glazing certification council

1640 west 32 place
hialeah, florida 33012

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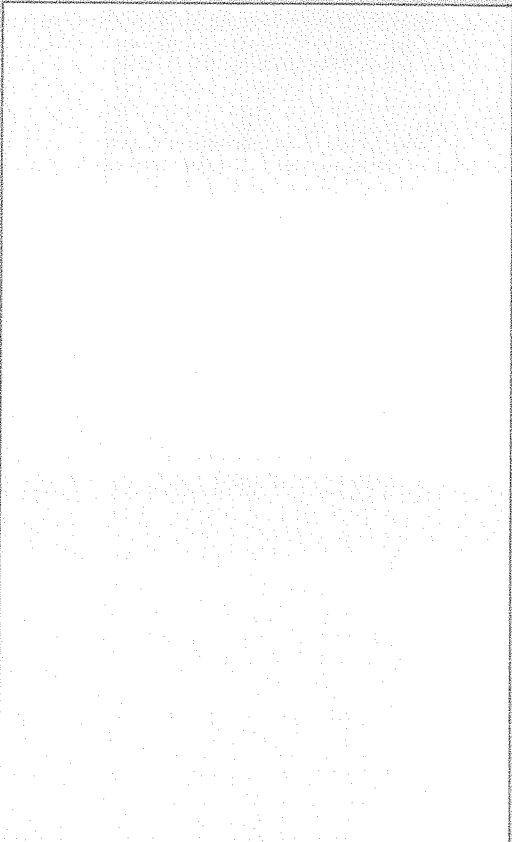
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