

January, 1974



safety glazing certification council

Certification of products listed herein extends until July 1, 1974

certified products directory  
safety glazing material used in buildings



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This directory is furnished to you as a service of the Safety Glazing Certification Council. Listed in the directory are safety glazing materials which meet all requirements of the American National Standards Institute (ANSI). Also listed are materials for indoor use only, which meet the safety requirements of ANSI but not the weathering requirements. As explained in the directory, one requirement for meeting the ANSI standard provides that all certified safety glazing materials must be available to the independent certification agency for unannounced, random sampling and testing, on a periodic and continuing basis. Should you have any questions or comments, or should you wish to receive future copies of this directory (published approximately every six months), please write directly to:

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

# PROGRAM CONCEPT

This directory is an essential and fundamental part of the Safety Glazing Certification Council, Inc. certification program.

This directory is up-dated and issued at least twice a year and is the only valid source of information concerning SGCC certified safety glazing materials. By specifying or using safety glazing materials bearing the labels listed herein, you can be assured that the manufacturer of the materials named in the label has certified that the labeled materials comply with the safety characteristics established by the American National Standard Z97.1-1972 and that the compliance of the manufacturer with the requirements of that standard is being checked periodically by an independent testing laboratory under the supervision of the Safety Glazing Certification Council, Inc.

Safety Glazing Certification Council, Inc. (not for profit) is the sponsor of this certification program. Any safety glazing material, whether transparent or not, is eligible for certification in this program.

Every manufacturer of safety glazing material is eligible to participate, however his products are not accepted and certified until an independent laboratory test indicates compliance with the standard. Then, at least twice a year, SGCC independently selects samples during unannounced visits to the manufacturing plant or randomly from the market place. The re-examination of these samples is used to provide certification of a continuing nature. Based upon these re-evaluation reports SGCC authorizes continued use of the certification label and product listing in this certified products directory.

The presence of a permanent label (registered and authorized by SGCC) will indicate the safety glazing material is in compliance with the "break safe characteristics" of ANSI Z97.1-1972.

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

This directory (one of two to be published yearly) contains a listing of the Certified Safety Glazing Materials of each participant that is in good standing and whose products have been found by test and subsequent evaluation to be in compliance with the requirements of the Specifications.

## SAFETY GLAZING CERTIFICATION COUNCIL

Widespread use of high performance safety glazing materials in buildings can help to reduce accident frequency and severity. Many states, national lending agencies, sophisticated professionals and local regulatory authorities require the use of safety glazing materials in hazardous locations to reduce the frequency and severity of accidents associated with ordinary materials.

To aid professionals, contractors and owners in the specification and selection of safety glazing materials and to help inspectors identify safety glazing materials and distinguish them from other types, formal certification and labeling is essential.

The certification programs initiated separately by Glass Tempering Association and Safety Glazing Industry, Inc. several years ago have joined forces in the Safety Glazing Certification Council (SGCC). SGCC is a unique organization with balanced leadership equally representative of both public and manufacturing interests.

Building upon established practices, SGCC provides "third party independent laboratory certification" of safety glazing material performance characteristics with respect to the nationally recognized standard and test methods developed by American National Standards Institute. SGCC bases its certification upon product performance evaluation tests conducted at prescribed intervals by experienced professionals.

Types of safety glazing materials which meet all aspects of a nationally recognized standard may be so certified and labeled. Copies of SGCC's bylaws and procedures are available on request. Manufacturers are invited to apply for certification of their safety glazing products.

THE CERTIFICATION COMMITTEE OF THE SAFETY GLAZING CERTIFICATION COUNCIL MET ON APRIL 5 AND 6, AUGUST 1 AND 2, OCTOBER 3 AND 4 DURING 1973. INTERESTED PERSONS MAY OBTAIN MINUTES OF THESE MEETINGS BY WRITING TO SAFETY GLAZING CERTIFICATION COUNCIL.

# CERTIFIED PRODUCTS

(NUMERICAL SEQUENCE)

SGCC-11	Feather-lite	SGCC- 63	PPG Industries	SGCC-116	Asahi Glass
SGCC-12	Virginia Glass	SGCC- 64	PPG Industries	SGCC-118	Flex-O-Glass
SGCC-13	Virginia Glass	SGCC- 65	PPG Industries	SGCC-120	Rowland Products
SGCC-14	Virginia Glass	SGCC- 66	PPG Industries	SGCC-123	Scanglas
SGCC-16	S.A. Glaverbel	SGCC- 70	PPG Industries	SGCC-125	C-E Glass
SGCC-17	Intercosmic	SGCC- 71	PPG Industries	SGCC-127	Hamilton of Indiana
SGCC-18	Southern Plastics	SGCC- 72	PPG Industries	SGCC-128	Hamilton of Indiana
SGCC-19	Libbey-Owens-Ford	SGCC- 73	PPG Industries	SGCC-129	Hamilton of Indiana
SGCC-20	Libbey-Owens-Ford	SGCC- 74	PPG Industries	SGCC-130	Guardian Industries
SGCC-21	Libbey-Owens-Ford	SGCC- 75	PPG Industries	SGCC-131	Guardian Industries
SGCC-24	ASG Industries	SGCC- 76	C-E Glass	SGCC-132	C-E Glass
SGCC-26	ASG Industries	SGCC- 77	C-E Glass	SGCC-135	Guardian Industries
SGCC-27	ASG Industries	SGCC- 78	Guardian Industries	SGCC-136	K-S-H
SGCC-28	ASG Industries	SGCC- 80	Saint Gobain	SGCC-137	C-E Glass
SGCC-30	ASG Industries	SGCC- 81	Saint Gobain	SGCC-138	C-E Glass
SGCC-31	ASG Industries	SGCC- 82	Libbey-Owens-Ford	SGCC-140	Minex-Poland
SGCC-33	ASG Industries	SGCC- 83	Guardian Industries	SGCC-141	ASG Industries
SGCC-34	Fourco Glass	SGCC- 84	Libbey-Owens-Ford	SGCC-143	ASG Industries
SGCC-35	Fourco Glass	SGCC- 85	Libbey-Owens-Ford	SGCC-144	C-E Glass
SGCC-36	Fourco Glass	SGCC- 86	ASG Industries	SGCC-145	C-E Glass
SGCC-37	Vidrierias De Llodio	SGCC- 88	Laminated Glass	SGCC-146	C-E Glass
SGCC-38	Vidrierias De Llodio	SGCC- 89	ASG Industries	SGCC-147	Dearborn Glass
SGCC-39	Guardian Industries	SGCC- 90	ASG Industries	SGCC-150	Libbey-Owens-Ford
SGCC-40	Guardian Industries	SGCC- 91	ASG Industries	SGCC-151	Libbey-Owens-Ford
SGCC-41	Guardian Industries	SGCC- 92	Virginia Glass	SGCC-152	Plaskolite
SGCC-42	Guardian Industries	SGCC- 93	Virginia Glass	SGCC-153	Rohm and Haas
SGCC-43	Guardian Industries	SGCC- 94	Virginia Glass	SGCC-154	Rohm and Haas
SGCC-44	Guardian Industries	SGCC- 95	Virginia Glass	SGCC-157	Chromalloy-Safetee
SGCC-45	Globe-Amerada	SGCC- 96	Guardian Industries	SGCC-158	Chromalloy-Safetee
SGCC-46	Asahi Glass	SGCC- 97	Guardian Industries	SGCC-160	Guardian Industries
SGCC-47	C-E Glass	SGCC- 98	Guardian Industries	SGCC-162	Southern Plastics
SGCC-49	C-E Glass	SGCC- 99	K-S-H	SGCC-163	Fourco Glass
SGCC-50	C-E Glass	SGCC-102	PPG Industries	SGCC-164	Fourco Glass
SGCC-51	C-E Glass	SGCC-103	ASG Industries	SGCC-167	Rohm and Haas
SGCC-53	C-E Glass	SGCC-104	Glass Guard	SGCC-170	Plaskolite
SGCC-54	Hamilton of Indiana	SGCC-105	Glass Guard	SGCC-173	Sheffield Plastics
SGCC-55	Hamilton of Indiana	SGCC-108	C-E Glass	SGCC-177	Taiwan Glass
SGCC-56	Hamilton of Indiana	SGCC-109	C-E Glass	SGCC-178	K-S-H
SGCC-57	Hamilton of Indiana	SGCC-110	C-E Glass	SGCC-181	Chromalloy-Safetee
SGCC-58	PPG Industries	SGCC-111	C-E Glass	SGCC-182	Chromalloy-Safetee
SGCC-59	PPG Industries	SGCC-112	C-E Glass	SGCC-183	American Cyanamid
SGCC-60	PPG Industries	SGCC-113	C-E Glass	SGCC-184	C-E Glass
SGCC-61	PPG Industries	SGCC-114	PPG Industries	SGCC-185	Ohio Plate Glass
SGCC-62	PPG Industries	SGCC-115	Asahi Glass	SGCC-186	Ohio Plate Glass

# CERTIFIED PRODUCTS

(NUMERICAL SEQUENCE)

SGCC-187	Ohio Plate Glass	SGCC-245	C-E Glass	SGCC-299	C-E Glass
SGCC-188	Ohio Plate Glass	SGCC-246	C-E Glass	SGCC-300	Glass Guard
SGCC-189	Taylor Products	SGCC-247	Hamilton of Indiana	SGCC-301	Libbey-Owens-Ford
SGCC-190	Taylor Products	SGCC-248	PPG Industries	SGCC-302	Libbey-Owens-Ford
SGCC-191	Taylor Products	SGCC-249	PPG Industries	SGCC-303	Libbey-Owens-Ford
SGCC-192	Taylor Products	SGCC-250	PPG Industries	SGCC-304	Libbey-Owens-Ford
SGCC-194	PPG Industries	SGCC-251	Canadian Pittsburgh	SGCC-305	Libbey-Owens-Ford
SGCC-195	PPG Industries	SGCC-252	Tyre Brothers	SGCC-306	Libbey-Owens-Ford
SGCC-196	PPG Industries	SGCC-253	Tyre Brothers	SGCC-307	Falconer
SGCC-197	Nippon	SGCC-254	Tyre Brothers	SGCC-308	Falconer
SGCC-198	Nippon	SGCC-255	Tyre Brothers	SGCC-309	Falconer
SGCC-200	PPG Industries	SGCC-256	Tyre Brothers	SGCC-310	Falconer
SGCC-201	C-E Glass	SGCC-257	Tuf-flex	SGCC-311	Falconer
SGCC-203	Ohio Plate	SGCC-258	Tuf-flex	SGCC-312	Tuf-flex
SGCC-204	Armour Laminated	SGCC-259	Paulding Glass	SGCC-314	Tuf-flex
SGCC-205	Armour Laminated	SGCC-260	Paulding Glass	SGCC-315	Tuf-flex
SGCC-206	Armour Laminated	SGCC-261	Paulding Glass	SGCC-316	Rotuba Extruders
SGCC-209	Canadian Pittsburgh	SGCC-262	Dura Vue Industries	SGCC-317	C-E Glass
SGCC-210	Robeco Products	SGCC-263	Guardian Industries	SGCC-318	C-E Glass
SGCC-212	K-S-H	SGCC-264	Guardian Industries	SGCC-319	C-E Glass
SGCC-213	Fourco Glass	SGCC-265	C-E Glass	SGCC-320	Tuf-flex
SGCC-214	N.V. Hardmaas	SGCC-266	PPG Industries	SGCC-321	Tuf-flex
SGCC-215	N.V. Hardmaas	SGCC-267	PPG Industries	SGCC-324	Double Seal
SGCC-217	ASG Industries	SGCC-269	Tudor Safety	SGCC-325	T-O-W Industries
SGCC-219	PPG Industries	SGCC-270	Tuf-flex	SGCC-326	Taiwan Glass
SGCC-220	ASG Industries	SGCC-272	PPG Industries	SGCC-327	Globe-Amerada
SGCC-221	K-S-H	SGCC-273	PPG Industries	SGCC-328	Ohio Plate
SGCC-222	Safelite Industries	SGCC-274	M.L. Burke	SGCC-329	Taiwan Glass
SGCC-224	ASG Industries	SGCC-275	Dura Vue Industries	SGCC-330	C-E Glass
SGCC-225	Safelite Industries	SGCC-276	Dura Vue Industries	SGCC-331	C-E Glass
SGCC-226	Seraphic	SGCC-279	Ohio Plate	SGCC-332	C-E Glass
SGCC-227	Viracon	SGCC-280	ASG Industries	SGCC-333	C-E Glass
SGCC-228	Viracon	SGCC-281	ASG Industries	SGCC-334	Libbey-Owens-Ford
SGCC-229	Tuf-flex	SGCC-284	C-E Glass	SGCC-335	Taiwan Glass
SGCC-230	Central	SGCC-286	Vidrierias De Llodio	SGCC-336	C-E Glass
SGCC-232	Viracon	SGCC-287	C-E Glass	SGCC-337	Tempered Glass
SGCC-233	Viracon	SGCC-288	C-E Glass	SGCC-338	Tempered Glass
SGCC-234	Seraphic	SGCC-291	Fourco Glass	SGCC-339	Chromalloy-Safetee
SGCC-235	PPG Industries	SGCC-292	Fourco Glass	SGCC-340	Paulding Glass
SGCC-237	Safelite Industries	SGCC-293	Fourco Glass	SGCC-343	C-E Glass
SGCC-238	Ohio Plate	SGCC-294	M.L. Burke	SGCC-344	C-E Glass
SGCC-239	Visador	SGCC-295	PPG Industries	SGCC-345	C-E Glass
SGCC-240	Dearborn Glass	SGCC-296	Tyneside	SGCC-346	C-E Glass
SGCC-243	T-O-W Industries	SGCC-297	Fourco Glass	SGCC-347	Tempered Glass
SGCC-244	C-E Glass	SGCC-298	Tuf-flex	SGCC-348	Tempered Glass

# CERTIFIED PRODUCTS

(ALPHABETICAL BY PLANT)

For listing by product type, please see page 17.

## ASG Industries, Inc.; Greenland, Tennessee

SGCC-224	1/8	inch	tempered transparent glass	Unlimited size
SGCC-220	3/16	inch	tempered transparent glass	Unlimited size
SGCC-89	1/4	inch	tempered transparent glass	Unlimited size
SGCC-90	3/8	inch	tempered transparent glass	Unlimited size
SGCC-91	1/2	inch	tempered transparent glass	Unlimited size
SGCC-143	3/4	inch	tempered transparent glass	Unlimited size
SGCC-280	1/8	inch	tempered pattern glass (Aquatex)	Unlimited size
SGCC-281	210	inch	tempered pattern glass (Aquatex)	Unlimited size

## ASG Industries, Inc.; Kingsport, Tennessee

SGCC-28	3/16	inch	tempered transparent glass	Unlimited size
SGCC-24	1/4	inch	tempered transparent glass	Unlimited size
SGCC-30	3/8	inch	tempered transparent glass	Unlimited size
SGCC-141	1/8	inch	tempered pattern glass (Finetex)	Unlimited size
SGCC-33	3/16	inch	tempered pattern glass (Aquatex)	Unlimited size
SGCC-31	210	inch	tempered pattern glass (Aquatex)	Unlimited size
SGCC-27	7/32	inch	laminated transparent glass	Unlimited size
SGCC-26	1/4	inch	laminated transparent glass	Unlimited size
SGCC-86	1/4	inch	polished wire glass (3/4 inch diamond mesh)	Unlimited size
SGCC-217	1/4	inch	polished wire glass (Pinstripe; 1/2 inch parallel)	Unlimited size
SGCC-103	7/32	inch	pattern wire glass (Pinstripe; 1/2 inch parallel)	Unlimited size

## American Cyanamid Company; Sanford, Maine

SGCC-183	0.080 inch and greater thicknesses	smooth cast acrylic	Unlimited size
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## Armour Laminated Glass Company, Inc.; Santa Fe Springs, California

SGCC-204	3/26	inch	tempered transparent glass	Unlimited size
SGCC-205	1/4	inch	tempered transparent glass	Unlimited size
SGCC-206	7/32	inch	tempered pattern glass (Aquatex)	Unlimited size

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

SGCC-46	3/16	inch	tempered transparent glass	Unlimited size
SGCC-116	SS/DS		laminated transparent glass	34" by 48"
SGCC-115	1/4	inch	laminated transparent glass	Unlimited size

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

SGCC-294	1/8	inch	tempered transparent glass	Unlimited size
SGCC-274	3/16	inch	tempered transparent glass	Unlimited size

## C-E Glass; Atlanta, Georgia

SGCC-108	1/4	inch	tempered transparent glass	Unlimited size
SGCC-125	210	inch	tempered pattern glass (Spray Lite)	Unlimited size

## C-E Glass; Bensenville, Illinois

SGCC-317	3/16	inch	tempered transparent glass	Unlimited size
SGCC-318	1/4	inch	tempered transparent glass	Unlimited size
SGCC-319	210	inch	tempered pattern glass (Spray Lite)	Unlimited size



C-E Glass; Casselberry, Florida

SGCC-288	3/16	inch	tempered transparent glass	Unlimited size
SGCC-287	1/4	inch	tempered transparent glass	Unlimited size
SGCC-244	210	inch	tempered pattern glass (Spray Lite)	28" by 54"

C-E Glass; Cinnaminson, New Jersey

SGCC-245	3/16	inch	tempered transparent glass	Unlimited size
SGCC-246	1/4	inch	tempered transparent glass	Unlimited size
SGCC-345	3/8	inch	tempered transparent glass	Unlimited size
SGCC-346	1/2	inch	tempered transparent glass	Unlimited size
SGCC-265	210	inch	tempered pattern glass (Spray Lite)	28" by 68"

C-E Glass; Fullerton, California

SGCC-299	3/16	inch	tempered pattern glass (P-516)	Unlimited size
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C-E Glass; Houston, Texas

SGCC-110	3/16	inch	tempered transparent glass	Unlimited size
SGCC-137	1/4	inch	tempered transparent glass	Unlimited size
SGCC-138	210	inch	tempered pattern glass (Spray Lite)	Unlimited size

C-E Glass; Lancaster, Ohio; Quarry Road

SGCC-184	1/8	inch	tempered transparent glass	Unlimited size
SGCC-145	3/16	inch	tempered transparent glass	Unlimited size
SGCC-146	1/4	inch	tempered transparent glass	Unlimited size
SGCC-144	210	inch	tempered pattern glass (Spray Lite)	Unlimited size

C-E Glass; Lancaster, Ohio; Slocum Street

SGCC-330	3/16	inch	tempered transparent glass	30" by 39"
SGCC-331	7/32	inch	tempered transparent glass	30" by 39"
SGCC-332	1/4	inch	tempered transparent glass	30" by 39"
SGCC-333	210	inch	tempered pattern glass (Spray Lite)	28" by 39"

C-E Glass; Long Beach, California

SGCC-111	3/16	inch	tempered transparent glass	Unlimited size
SGCC-112	1/4	inch	tempered transparent glass	Unlimited size
SGCC-113	210	inch	tempered pattern glass (Spray Lite)	Unlimited size

C-E Glass; Miami, Florida

SGCC-76	3/16	inch	tempered transparent glass	Unlimited size
SGCC-77	7/32	inch	tempered transparent glass	Unlimited size
SGCC-49	1/4	inch	tempered transparent glass	Unlimited size
SGCC-50	210	inch	tempered pattern glass (Spray Lite)	Unlimited size

C-E Glass; Pennsauken, New Jersey

SGCC-51	1/8	inch	tempered transparent glass	Unlimited size
SGCC-53	1/4	inch	tempered transparent glass	Unlimited size
SGCC-132	210	inch	tempered pattern glass (Spray Lite)	28" by 54"



C-E Glass; St. Louis, Missouri			
SGCC-284	1/4 inch	polished wire glass (1/2 inch square mesh)	Unlimited size
C-E Glass; Tampa, Florida			
SGCC-109	3/16 inch	tempered transparent glass	Unlimited size
SGCC-47	1/4 inch	tempered transparent glass	Unlimited size
SGCC-201	210 inch	tempered pattern glass (Spray Lite)	Unlimited size
C-E Glass; Warrenton, Missouri			
SGCC-336	3/16 inch	tempered transparent glass	Unlimited size
SGCC-343	210 inch	tempered pattern glass (Spray Lite)	Unlimited size
SGCC-344	7/32 inch	tempered pattern glass (P-516)	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario			
SGCC-251	1/8 inch	tempered transparent glass	Unlimited size
SGCC-209	3/16 inch	tempered transparent glass	Unlimited size
Central Glass Company, Ltd.; Tokyo, Japan			
SGCC-230	1/8 inch	tempered transparent glass	Unlimited size
Chromalloy-Safetee Glass Division; King of Prussia, Pennsylvania			
SGCC-339	3/16 inch	tempered transparent glass	Unlimited size
SGCC-157	1/4 inch	tempered transparent glass	Unlimited size
SGCC-181	3/8 inch	tempered transparent glass	Unlimited size
SGCC-182	1/2 inch	tempered transparent glass	Unlimited size
Chromalloy-Safetee Glass Division; Philadelphia, Pennsylvania			
SGCC-158	7/32 inch	laminated transparent glass	Unlimited size
Dearborn Glass Company; Bedford Park, Illinois			
SGCC-240	3/16 inch	tempered transparent glass	24" by 34"
SGCC-147	7/32 inch	laminated transparent glass	Unlimited size
Double Seal Glass Company, Inc.; Flint, Michigan			
SGCC-324	3/16 inch	annealed pattern glass; 0.005 inch plastic coating (Lozenge)	Unlimited size
Dura Vue Industries, Inc.; Chicago, Illinois			
SGCC-262	3/16 inch	tempered transparent glass	Unlimited size
SGCC-275	7/32 inch	tempered transparent glass	Unlimited size
SGCC-276	1/4 inch	tempered transparent glass	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York			
SGCC-307	3/16 inch	tempered transparent glass	Unlimited size
SGCC-308	1/4 inch	tempered transparent glass	Unlimited size
SGCC-310	3/8 inch	tempered transparent glass	Unlimited size
SGCC-311	1/2 inch	tempered transparent glass	Unlimited size
SGCC-309	7/32 inch	tempered pattern glass (Factrolite)	Unlimited size

Feather-lite Manufacturing Company; Hot Springs, Arkansas			Unlimited size
SGCC-11	3/16 inch	tempered transparent glass	
Flex-O-Glass, Inc.; Dixon, Illinois			Unlimited size
SGCC-118	0.080 inch through 0.125 inch	smooth extruded acrylic	
Fourco Glass Company; Clarksburg, West Virginia; Adamston Division			Unlimited size
SGCC-163	3/16 inch	tempered transparent glass	
SGCC-164	7/32 inch	tempered transparent glass	Unlimited size
SGCC-213	1/4 inch	tempered transparent glass	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia; Rolland Division			Unlimited size
SGCC-297	1/8 inch	tempered transparent glass	
SGCC-291	3/16 inch	tempered transparent glass	Unlimited size
SGCC-292	7/32 inch	tempered transparent glass	Unlimited size
SGCC-293	1/4 inch	tempered transparent glass	Unlimited size
Fourco Glass Company; Fort Smith, Arkansas			Unlimited size
SGCC-36	3/16 inch	tempered transparent glass	
SGCC-35	7/32 inch	tempered transparent glass	Unlimited size
SGCC-34	1/4 inch	tempered transparent glass	Unlimited size
Glass Guard Industries, Inc.; Webster, Massachusetts			Unlimited size
SGCC-300	1/8 inch	tempered transparent glass	
SGCC-104	3/16 inch	tempered transparent glass	Unlimited size
SGCC-105	1/4 inch	tempered transparent glass	Unlimited size
S. A. Glaverbel; Bruxelles, Belgium			Unlimited size
SGCC-16	3/16 inch	tempered transparent glass	
Globe-Amerada Glass Company; Elk Grove Village, Illinois			34" by 40" Unlimited size
SGCC-327	0.145 inch	laminated transparent glass	
SGCC-45	7/32 inch	laminated transparent glass	
Guardian Industries Corporation; Carleton, Michigan			Unlimited size
SGCC-135	3/16 inch	tempered transparent glass	
SGCC-131	1/4 inch	tempered transparent glass	Unlimited size
SGCC-160	3/8 inch	tempered transparent glass	Unlimited size
SGCC-263	1/2 inch	tempered transparent glass	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida			Unlimited size
SGCC-78	3/16 inch	tempered transparent glass	
SGCC-39	7/32 inch	tempered transparent glass	Unlimited size
SGCC-40	1/4 inch	tempered transparent glass	Unlimited size
SGCC-41	3/8 inch	tempered transparent glass	Unlimited size
SGCC-42	7/32 inch	tempered pattern glass (Aquatex)	Unlimited size
Guardian Industries Corporation; Millbury, Ohio			Unlimited size
SGCC-83	3/16 inch	tempered transparent glass	
SGCC-130	1/4 inch	tempered transparent glass	Unlimited size

Guardian Industries Corporation; Torrance, California

SGCC-44	3/16	inch	tempered transparent glass	Unlimited size
SGCC-96	7/32	inch	tempered transparent glass	Unlimited size
SGCC-43	1/4	inch	tempered transparent glass	Unlimited size
SGCC-97	3/8	inch	tempered transparent glass	Unlimited size
SGCC-98	1/2	inch	tempered transparent glass	Unlimited size
SGCC-264	7/32	inch	tempered pattern glass (Aquatex)	Unlimited size

Hamilton of Indiana, Inc.; Vincennes, Indiana

SGCC-54	1/8	inch	tempered transparent glass	Unlimited size
SGCC-56	3/16	inch	tempered transparent glass	Unlimited size
SGCC-55	7/32	inch	tempered transparent glass	Unlimited size
SGCC-57	1/4	inch	tempered transparent glass	Unlimited size
SGCC-127	3/8	inch	tempered transparent glass	Unlimited size
SGCC-128	1/2	inch	tempered transparent glass	Unlimited size
SGCC-247	1/8	inch	tempered pattern glass (Pattern 62)	Unlimited size
SGCC-129	210	inch	tempered pattern glass (Aquatex)	Unlimited size

N. V. Hardmaas; Tiel, Holland

SGCC-214	5/32	inch	tempered transparent glass (32 ounce)	32" by 39 7/8"
SGCC-215	1/4	inch	tempered transparent glass	Unlimited size

Intercosmic Plastics; Division of ICP Industries, Inc.; Miami, Florida

SGCC-17	0.090	inch through 3/16 inch	pattern extruded plastic (Seaflair) (indoor use only)	Unlimited size
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K-S-H, Inc.; Crestwood, Missouri

SGCC-99	0.100	inch through 3/16 inch	pattern extruded plastic (Glacial) (indoor use only)	Unlimited size
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K-S-H, Inc.; Fredericksburg, Virginia

SGCC-178	0.100	inch through 0.130 inch	pattern extruded plastic (Calypso and Roundel) (indoor use only)	Unlimited size
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K-S-H, Inc.; Tustin, California

SGCC-212	0.060	inch through 0.125 inch	smooth extruded acrylic	Unlimited size
SGCC-221	0.100	inch through 3/16 inch	pattern extruded plastic (Calypso and Glacial) (indoor use only)	Unlimited size

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

SGCC-136	0.060	inch through 0.125 inch	smooth extruded acrylic	Unlimited size
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Laminated Glass Corporation; Detroit, Michigan

SGCC-88	7/32	inch	laminated transparent glass	Unlimited size
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Libbey-Owens-Ford Company; East Toledo, Ohio

SGCC-302	SS/SS		laminated transparent glass	Unlimited size
SGCC-334	SS/DS		laminated transparent glass	Unlimited size
SGCC-82	1/4	inch	laminated transparent glass	Unlimited size
SGCC-301	1/2	inch	laminated transparent glass	Unlimited size

Libbey-Owens-Ford Company; Lathrop, California

SGCC-84	3/16	inch	tempered transparent glass	Unlimited size
SGCC-85	1/4	inch	tempered transparent glass	Unlimited size

Libbey-Owens-Ford Company; Rossford, Ohio

SGCC-21	1/8	inch	tempered transparent glass	Unlimited size
SGCC-20	3/16	inch	tempered transparent glass	Unlimited size
SGCC-19	1/4	inch	tempered transparent glass	Unlimited size
SGCC-303	5/16	inch	tempered transparent glass	Unlimited size
SGCC-304	3/8	inch	tempered transparent glass	Unlimited size
SGCC-150	1/2	inch	tempered transparent glass	Unlimited size
SGCC-305	5/8	inch	tempered transparent glass	Unlimited size
SGCC-151	3/4	inch	tempered transparent glass	Unlimited size
SGCC-306	7/8	inch	tempered transparent glass	Unlimited size

Minex-Poland; Jaroszwieć, Poland

SGCC-140	210	inch	tempered pattern glass (Pattern 100)	Unlimited size
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Nippon Sheet Glass Company Ltd; Osaka, Japan

SGCC-198	3/16	inch	tempered transparent glass	Unlimited size
SGCC-197	1/4	inch	polished wire glass (1/2 inch square mesh)	Unlimited size

Ohio Plate Glass Company; Lewisburg, Ohio

SGCC-187	1/8	inch	tempered transparent glass	Unlimited size
SGCC-185	3/16	inch	tempered transparent glass	Unlimited size
SGCC-279	7/32	inch	tempered transparent glass	Unlimited size
SGCC-186	1/4	inch	tempered transparent glass	Unlimited size
SGCC-203	1/8	inch	tempered pattern glass (Ribbed)	Unlimited size
SGCC-188	3/16	inch	tempered pattern glass (Pattern 62)	Unlimited size
SGCC-328	3/16	inch	tempered pattern glass (Roundel)	34" by 48"
SGCC-238	7/32	inch	tempered pattern glass (Textured Linex)	Unlimited size

PPG Industries, Inc.; Carlisle, Pennsylvania

SGCC-250	1/8	inch	tempered transparent glass	Unlimited size
SGCC-249	3/16	inch	tempered transparent glass	Unlimited size

PPG Industries, Inc.; Chicago, Illinois

SGCC-266	3/16	inch	tempered transparent glass	Unlimited size
SGCC-267	1/4	inch	tempered transparent glass	Unlimited size
SGCC-272	3/8	inch	tempered transparent glass	Unlimited size
SGCC-273	1/2	inch	tempered transparent glass	Unlimited size

PPG Industries, Inc.; Creighton, Pennsylvania

SGCC-114	1/4	inch	laminated transparent glass	Unlimited size
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PPG Industries, Inc.; Crestline, Ohio

SGCC-60	1/8	inch	tempered transparent glass	Unlimited size
SGCC-65	3/16	inch	tempered transparent glass	Unlimited size
SGCC-102	1/4	inch	tempered transparent glass	26 3/4" by 72"
SGCC-235	3/16	inch	tempered pattern glass (Roundel)	26 3/4" by 72"



PPG Industries, Inc.; Ford City, Pennsylvania					
SGCC-61	3/16	inch	tempered transparent glass		Unlimited size
SGCC-66	7/32	inch	tempered transparent glass		Unlimited size
SGCC-70	1/4	inch	tempered transparent glass		Unlimited size
SGCC-74	3/8	inch	tempered transparent glass		Unlimited size
SGCC-75	1/2	inch	tempered transparent glass		Unlimited size
SGCC-248	3/4	inch	tempered transparent glass		Unlimited size
PPG Industries, Inc.; Fresno, California					
SGCC-295	1/8	inch	tempered transparent glass		Unlimited size
SGCC-64	3/16	inch	tempered transparent glass		Unlimited size
SGCC-73	1/4	inch	tempered transparent glass		Unlimited size
PPG Industries, Inc.; Miami, Florida					
SGCC-195	3/16	inch	tempered transparent glass		Unlimited size
SGCC-194	1/4	inch	tempered transparent glass		Unlimited size
SGCC-196	3/8	inch	tempered transparent glass		Unlimited size
SGCC-200	1/2	inch	tempered transparent glass		Unlimited size
SGCC-219	7/32	inch	tempered pattern glass (Smooth Rough)		Unlimited size
PPG Industries, Inc.; Mt. Vernon, Ohio					
SGCC-58	1/8	inch	tempered transparent glass		Unlimited size
SGCC-62	3/16	inch	tempered transparent glass		Unlimited size
SGCC-71	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-63	3/16	inch	tempered transparent glass		Unlimited size
SGCC-72	1/4	inch	tempered transparent glass		Unlimited size
Paulding Glass Products, Inc.; Paulding, Ohio					
SGCC-340	3/16	inch	tempered transparent glass		Unlimited size
SGCC-259	1/4	inch	tempered transparent glass		Unlimited size
SGCC-260	3/8	inch	tempered transparent glass		Unlimited size
SGCC-261	210	inch	tempered pattern glass (Aquatex)		Unlimited size
Plaskolite, Inc.; Columbus, Ohio					
SGCC-152	0.080	inch through 0.125	inch smooth extruded acrylic		Unlimited size
SGCC-170	0.080	inch through 0.125	inch smooth extruded plastic (indoor use only)		Unlimited size
Robeco Products, Inc.; Tainan, Taiwan					
SGCC-210	0.080	inch and greater thicknesses	smooth cast acrylic		Unlimited size
Rohm and Haas Company; Bristol, Pennsylvania					
SGCC-167	0.080	inch through 0.125	inch smooth cast acrylic		Unlimited size
Rohm and Haas Company; Knoxville, Tennessee					
SGCC-153	0.080	inch and greater thicknesses	smooth cast acrylic		Unlimited size

Rohm and Haas Company; Louisville, Kentucky			Unlimited size
SGCC-154	0.080 inch through 0.187 inch smooth cast acrylic		
Rotuba Extruders, Inc.; Linden, New Jersey			Unlimited size
SGCC-316	0.080 inch through 0.125 inch smooth extruded acrylic		
Rowland Products, Inc.; Kensington, Connecticut			Unlimited size
SGCC-120	0.090 inch and greater thicknesses smooth extruded polycarbonate		
Safelite Industries; Denver, Colorado			Unlimited size
SGCC-222	7/32 inch laminated transparent glass		
SGCC-237	1/4 inch laminated transparent glass		Unlimited size
Safelite Industries; Wichita, Kansas			Unlimited size
SGCC-225	1/8 inch tempered transparent glass		
Saint Gobain; Aniche, France			Unlimited size
SGCC-81	3/16 inch tempered transparent glass		
SGCC-80	7/32 inch tempered transparent glass		Unlimited size
Scanglas A/S; Korsor, Denmark			Unlimited size
SGCC-123	3/16 inch tempered transparent glass		
Seraphic (Aust.) Pty. Ltd.; Beverly, South Australia			Unlimited size
SGCC-226	3/16 inch tempered transparent glass		
SGCC-234	1/4 inch tempered transparent glass		Unlimited size
Sheffield Plastics, Inc.; Sheffield, Massachusetts			Unlimited size
SGCC-173	0.080 inch through 0.125 inch smooth extruded acrylic		
Southern Plastics Company; Columbia, South Carolina			Unlimited size
SGCC-162	0.080 inch through 0.125 inch smooth extruded acrylic		
SGCC-18	0.090 inch pattern extruded plastic (Cracked Ice) (indoor use only)		Unlimited size
T-O-W Industries, Inc.; Chicago, Illinois			Unlimited size
SGCC-325	3/16 inch tempered transparent glass		
SGCC-243	1/4 inch tempered transparent glass		Unlimited size
Taiwan Glass Corporation; Taipei, Taiwan			14" by 18"
SGCC-335	1/8 inch tempered transparent glass		
SGCC-177	3/16 inch tempered transparent glass		Unlimited size
SGCC-326	7/32 inch tempered transparent glass		Unlimited size
SGCC-329	210 inch tempered pattern glass (Pattern 757)		Unlimited size
Taylor Products, Inc.; Payne, Ohio			Unlimited size
SGCC-190	3/16 inch tempered transparent glass		
SGCC-192	7/32 inch tempered transparent glass		Unlimited size
SGCC-189	1/4 inch tempered transparent glass		Unlimited size
SGCC-191	210 inch tempered pattern glass (Industrex)		Unlimited size

Tempered Glass Corporation; Tampa, Florida			
SGCC-347	3/16 inch	tempered transparent glass	Unlimited size
SGCC-337	1/4 inch	tempered transparent glass	Unlimited size
SGCC-348	3/8 inch	tempered transparent glass	Unlimited size
SGCC-338	1/2 inch	tempered transparent glass	Unlimited size
Tudor Safety Glass Company Ltd.; Queensborough, Kent; England			
SGCC-269	1/4 inch	laminated transparent glass	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia			
SGCC-320	3/16 inch	tempered transparent glass	Unlimited size
SGCC-321	1/4 inch	tempered transparent glass	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois			
SGCC-257	3/16 inch	tempered transparent glass	Unlimited size
SGCC-229	1/4 inch	tempered transparent glass	Unlimited size
SGCC-258	3/8 inch	tempered transparent glass	Unlimited size
SGCC-270	1/2 inch	tempered transparent glass	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey			
SGCC-312	3/16 inch	tempered transparent glass	Unlimited size
SGCC-298	1/4 inch	tempered transparent glass	Unlimited size
SGCC-314	3/8 inch	tempered transparent glass	Unlimited size
SGCC-315	1/2 inch	tempered transparent glass	Unlimited size
Tyneside Safety Glass Company Ltd.; Gateshead on Tyne, England			
SGCC-296	1/4 inch	laminated transparent glass	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 (Smooth Rough)	Unlimited size
Vidrierias De Llodio, S.A.; Alava, Spain			
SGCC-286	1/8 inch	tempered transparent glass	Unlimited size
SGCC-38	3/16 inch	tempered transparent glass	Unlimited size
SGCC-37	7/32 inch	tempered transparent glass	Unlimited size
Viracon, Inc.; Owatonna, Minnesota			
SGCC-227	3/16 inch	tempered transparent glass	Unlimited size
SGCC-228	1/4 inch	tempered transparent glass	Unlimited size
SGCC-233	SS/DS	laminated transparent glass	Unlimited size
SGCC-232	1/4 inch	laminated transparent glass	Unlimited size

Virginia Glass Products Corporation; Martinsville, Virginia

SGCC-12	3/16 inch	tempered transparent glass	Unlimited size
SGCC-13	7/32 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 (Velvex)	Unlimited size

Visador Company; Jasper, Texas

SGCC-239	1/8 inch	annealed glass; 0.016 inch pattern plastic coating	Unlimited size
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ALTERNATE PATTERNS

The SGCC Certification Committee has considered and approved the following alternate patterns for certified patterned safety glazing.

Tempered Pattern Glass

Certified Thickness and Patterns

Approved Alternate Patterns

1/8 Inch Tempered  
"Ribbed"

"Flax"; "Flemish"; "Industrex"; "Lozenge"; "Pattern 62";  
"Roundel"; "Velvex"

3/16 Inch Tempered  
"Aquatex"  
"Pattern 62"  
"Roundel"

"Industrex"; "Muralex"; "Pattern 62"; "Velvex"  
"Aquatex"  
"Lozenge"

210 Inch Tempered  
"Aquatex"  
"Industrex"  
"Spray Lite"  
"757 Nashiji"

"Industrex"; "Muralex"; "Pattern 62"; "Velvex"  
"Aquatex"; "Muralex"; "Pattern 62"  
"Flemish"; "P-516"  
"727 Mistlite"; "767 Roughlite"

7/32 Inch Tempered  
"Aquatex"  
"Smooth Rough"  
"Textured Linex"  
  
"Velvex"

"Industrex"; "Muralex"; "Pattern 62"; "Velvex"  
"Burlap"; "Factrolite"; "J-3"; "P-516"  
"Aquatex"; "Flemish"; "Flutex"; "Industrex"; "Muralex";  
"Pattern 62"; "Skytex"; "Velvex"  
"Aquatex"; "Industrex"; "Muralex"

Pattern Plastics

0.100 Inch  
"Calypso"

"Glacial"; "Starlite"

0.130 Inch  
"Roundel"

"Glacial"; "Starlite"



# CERTIFIED PRODUCTS

(BY PRODUCT)

For listing by manufacturing plant, please see page 7.

## TEMPERED TRANSPARENT GLASS

### 1/8 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-224	Unlimited size
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-294	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-184	Unlimited size
C-E Glass; Pennsauken, New Jersey	SGCC-51	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario	SGCC-251	Unlimited size
Central Glass Company, Ltd.; Tokyo, Japan	SGCC-230	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia; Rolland Div.	SGCC-297	Unlimited size
Glass Guard Industries, Inc.; Webster, Massachusetts	SGCC-300	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-54	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-21	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-187	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC-250	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC-60	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC-295	Unlimited size
PPG Industries, Inc.; Mt. Vernon, Ohio	SGCC-58	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC-59	Unlimited size
Safelite Industries; Wichita, Kansas	SGCC-225	Unlimited size
Taiwan Glass Corporation; Taipei, Taiwan	SGCC-335	14" by 18"
Vidrierias De Llodio, S. A.; Alava, Spain	SGCC-286	Unlimited size

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

N. V. Hardmaas; Tiel, Holland	SGCC-214	32" by 39 7/8"
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### 3/16 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-220	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC-28	Unlimited size
Armour Laminated Glass Co., Inc.; Santa Fe Springs, California	SGCC-204	Unlimited size
Asahi Glass Company, Ltd.; Tokyo, Japan	SGCC-46	Unlimited size
M. L. Burke Company; Cornwells Heights, Pennsylvania	SGCC-274	Unlimited size
C-E Glass; Bensenville, Illinois	SGCC-317	Unlimited size
C-E Glass; Casselberry, Florida	SGCC-288	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-245	Unlimited size
C-E Glass; Houston, Texas	SGCC-110	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-145	Unlimited size
C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-330	30" by 39"
C-E Glass; Long Beach, California	SGCC-111	Unlimited size
C-E Glass; Miami, Florida	SGCC-76	Unlimited size
C-E Glass; Tampa, Florida	SGCC-109	Unlimited size
C-E Glass; Warrenton, Missouri	SGCC-336	Unlimited size
Canadian Pittsburgh Industries, Ltd.; Owen Sound, Ontario	SGCC-209	Unlimited size
Chromalloy-Safetee Glass Div.; King of Prussia, Pennsylvania	SGCC-339	Unlimited size
Dearborn Glass Company; Bedford Park, Illinois	SGCC-240	24" by 34"

3/16 inch tempered transparent glass (continued)

Dura Vue Industries, Inc.; Chicago, Illinois	SGCC-262	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York	SGCC-307	Unlimited size
Feather-lite Manufacturing Company; Hot Springs, Arkansas	SGCC-11	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia; Adamston Div.	SGCC-163	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia; Rolland Div.	SGCC-291	Unlimited size
Fourco Glass Company; Fort Smith, Arkansas	SGCC-36	Unlimited size
Glass Guard Industries, Inc.; Webster, Massachusetts	SGCC-104	Unlimited size
S. A. Glaverbel; Bruxelles, Belgium	SGCC-16	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC-135	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-78	Unlimited size
Guardian Industries Corporation; Millbury, Ohio	SGCC-83	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC-44	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-56	Unlimited size
Libbey-Owens-Ford Company; Lathrop, California	SGCC-84	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-20	Unlimited size
Nippon Sheet Glass Company, Ltd.; Osaka, Japan	SGCC-198	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-185	Unlimited size
PPG Industries, Inc.; Carlisle, Pennsylvania	SGCC-249	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-266	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC-65	Unlimited size
PPG Industries, Inc.; 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. Vernon, Ohio	SGCC-62	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC-63	Unlimited size
Paulding Glass Products, Inc.; Paulding, Ohio	SGCC-340	Unlimited size
Saint Gobain; Aniche, France	SGCC-81	Unlimited size
Scanglas A/S; Korsor, Denmark	SGCC-123	Unlimited size
Seraphic (Aust.) Pty. Ltd.; Beverly, South Australia	SGCC-226	Unlimited size
T-O-W Industries, Inc.; Chicago, Illinois	SGCC-325	Unlimited size
Taiwan Glass Corporation; Taipei, Taiwan	SGCC-177	Unlimited size
Taylor Products, Inc.; Payne, Ohio	SGCC-190	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-347	Unlimited size
Tuf-flex Glass, Inc.; Atlanta, Georgia	SGCC-320	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-257	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-312	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC-252	Unlimited size
Vidrierias De Llodio, S.A.; Alava, Spain	SGCC-38	Unlimited size
Viracon, Inc.; Owatonna, Minnesota	SGCC-227	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-12	Unlimited size

7/32 inch tempered transparent glass

C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-331	30" by 39"
C-E Glass; Miami, Florida	SGCC-77	Unlimited size
Dura Vue Industries, Inc.; Chicago, Illinois	SGCC-275	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia; Adamston Div.	SGCC-164	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia; Rolland Div.	SGCC-292	Unlimited size
Fourco Glass Company; Fort Smith, Arkansas	SGCC-35	Unlimited size

7/32 inch tempered transparent glass (continued)

Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-39	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC-96	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-55	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-279	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC-66	Unlimited size
Saint Gobain; Aniche, France	SGCC-80	Unlimited size
Taiwan Glass Corporation; Taipei, Taiwan	SGCC-326	Unlimited size
Taylor Products, Inc.; Payne, Ohio	SGCC-192	Unlimited size
Vidrierias De Llodio, S.A.; Alava, Spain	SGCC-37	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-13	Unlimited size

1/4 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-89	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee	SGCC-24	Unlimited size
Armour Laminated Glass Co., Inc.; Santa Fe Springs, California	SGCC-205	Unlimited size
C-E Glass; Atlanta, Georgia	SGCC-108	Unlimited size
C-E Glass; Bensenville, Illinois	SGCC-318	Unlimited size
C-E Glass; Casselberry, Florida	SGCC-287	Unlimited size
C-E Glass; Cinnaminson, New Jersey	SGCC-246	Unlimited size
C-E Glass; Houston, Texas	SGCC-137	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road	SGCC-146	Unlimited size
C-E Glass; Lancaster, Ohio; Slocum Street	SGCC-332	30" by 39"
C-E Glass; Long Beach, California	SGCC-112	Unlimited size
C-E Glass; Miami, Florida	SGCC-49	Unlimited size
C-E Glass; Pennsauken, New Jersey	SGCC-53	Unlimited size
C-E Glass; Tampa, Florida	SGCC-47	Unlimited size
Chromalloy-Safetee Glass Div.; King of Prussia, Pennsylvania	SGCC-157	Unlimited size
Dura Vue Industries, Inc.; Chicago, Illinois	SGCC-276	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York	SGCC-308	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia; Adamston Div.	SGCC-213	Unlimited size
Fourco Glass Company; Clarksburg, West Virginia; Rolland Div.	SGCC-293	Unlimited size
Fourco Glass Company; Fort Smith, Arkansas	SGCC-34	Unlimited size
Glass Guard Industries, Inc.; Webster, Massachusetts	SGCC-105	Unlimited size
Guardian Industries Corporation; Carleton, Michigan	SGCC-131	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida	SGCC-40	Unlimited size
Guardian Industries Corporation; Millbury, Ohio	SGCC-130	Unlimited size
Guardian Industries Corporation; Torrance, California	SGCC-43	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana	SGCC-57	Unlimited size
N. V. Hardmaas; Tiel, Holland	SGCC-215	Unlimited size
Libbey-Owens-Ford Company; Lathrop, California	SGCC-85	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-19	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio	SGCC-186	Unlimited size
PPG Industries, Inc.; Chicago, Illinois	SGCC-267	Unlimited size
PPG Industries, Inc.; Crestline, Ohio	SGCC-102	26 3/4" by 72"
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC-70	Unlimited size
PPG Industries, Inc.; Fresno, California	SGCC-73	Unlimited size
PPG Industries, Inc.; Miami, Florida	SGCC-194	Unlimited size
PPG Industries, Inc.; Mt. Vernon, Ohio	SGCC-71	Unlimited size
PPG Industries, Inc.; Mt. Zion, Illinois	SGCC-72	Unlimited size

1/4 inch tempered transparent glass (continued)

Paulding Glass Products, Inc.; Paulding, Ohio  
Seraphic (Aust.) Pty. Ltd.; Beverly, South Australia  
T-O-W Industries, Inc.; Chicago, Illinois  
Taylor Products, Inc.; Payne, Ohio  
Tempered Glass Corporation; Tampa, Florida  
Tuf-flex Glass, Inc.; Atlanta, Georgia  
Tuf-flex Glass, Inc.; Elmhurst, Illinois  
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey  
Tyre Brothers Glass Company; Los Angeles, California  
Viracon, Inc.; Owatonna, Minnesota  
Virginia Glass Products Corporation; Martinsville, Virginia

SGCC-259 Unlimited size  
SGCC-234 Unlimited size  
SGCC-243 Unlimited size  
SGCC-189 Unlimited size  
SGCC-337 Unlimited size  
SGCC-321 Unlimited size  
SGCC-229 Unlimited size  
SGCC-298 Unlimited size  
SGCC-253 Unlimited size  
SGCC-228 Unlimited size  
SGCC-14 Unlimited size

5/16 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio

SGCC-303 Unlimited size

3/8 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee  
ASG Industries, Inc.; Kingsport, Tennessee  
C-E Glass; Cinaminson, New Jersey  
Chromalloy-Safetee Glass Div.; King of Prussia, Pennsylvania  
Falconer Plate Glass Corporation; Falconer, New York  
Guardian Industries Corporation; Carleton, Michigan  
Guardian Industries Corporation; Fort Lauderdale, Florida  
Guardian Industries Corporation; Torrance, California  
Hamilton of Indiana, Inc.; Vincennes, Indiana  
Libbey-Owens-Ford Company; Rossford, Ohio  
PPG Industries, Inc.; Chicago, Illinois  
PPG Industries, Inc.; Ford City, Pennsylvania  
PPG Industries, Inc.; Miami, Florida  
Paulding Glass Products, Inc.; Paulding, Ohio  
Tempered Glass Corporation; Tampa, Florida  
Tuf-flex Glass, Inc.; Elmhurst, Illinois  
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey  
Tyre Brothers Glass Company; Los Angeles, California  
Virginia Glass Products Corporation; Martinsville, Virginia

SGCC-90 Unlimited size  
SGCC-30 Unlimited size  
SGCC-345 Unlimited size  
SGCC-181 Unlimited size  
SGCC-310 Unlimited size  
SGCC-160 Unlimited size  
SGCC-41 Unlimited size  
SGCC-97 Unlimited size  
SGCC-127 Unlimited size  
SGCC-304 Unlimited size  
SGCC-272 Unlimited size  
SGCC-74 Unlimited size  
SGCC-196 Unlimited size  
SGCC-260 Unlimited size  
SGCC-348 Unlimited size  
SGCC-258 Unlimited size  
SGCC-314 Unlimited size  
SGCC-254 Unlimited size  
SGCC-93 Unlimited size

1/2 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee  
C-E Glass; Cinaminson, New Jersey  
Chromalloy-Safetee Glass Div.; King of Prussia, Pennsylvania  
Falconer Plate Glass Corporation; Falconer, New York  
Guardian Industries Corporation; Carleton, Michigan  
Guardian Industries Corporation; Torrance, California  
Hamilton of Indiana, Inc.; Vincennes, Indiana  
Libbey-Owens-Ford Company; Rossford, Ohio  
PPG Industries, Inc.; Chicago, Illinois  
PPG Industries, Inc.; Ford City, Pennsylvania

SGCC-91 Unlimited size  
SGCC-346 Unlimited size  
SGCC-182 Unlimited size  
SGCC-311 Unlimited size  
SGCC-263 Unlimited size  
SGCC-98 Unlimited size  
SGCC-128 Unlimited size  
SGCC-150 Unlimited size  
SGCC-273 Unlimited size  
SGCC-75 Unlimited size



### 1/2 inch tempered transparent glass (continued)

PPG Industries, Inc.; Miami, Florida	SGCC-200	Unlimited size
Tempered Glass Corporation; Tampa, Florida	SGCC-338	Unlimited size
Tuf-flex Glass, Inc.; Elmhurst, Illinois	SGCC-270	Unlimited size
Tuf-flex Glass, Inc.; Saddle Brook, New Jersey	SGCC-315	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California	SGCC-255	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-94	Unlimited size

### 5/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-305	Unlimited size
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### 3/4 inch tempered transparent glass

ASG Industries, Inc.; Greenland, Tennessee	SGCC-143	Unlimited size
Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-151	Unlimited size
PPG Industries, Inc.; Ford City, Pennsylvania	SGCC-248	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia	SGCC-95	Unlimited size

### 7/8 inch tempered transparent glass

Libbey-Owens-Ford Company; Rossford, Ohio	SGCC-306	Unlimited size
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## TEMPERED PATTERN GLASS

### 1/8 inch tempered pattern glass

ASG Industries, Inc.; Greenland, Tennessee (Aquatex)	SGCC-280	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee (Finetex)	SGCC-141	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana (Pattern 62)	SGCC-247	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio (Ribbed)	SGCC-203	Unlimited size

### 3/16 inch tempered pattern glass

ASG Industries, Inc.; Kingsport, Tennessee (Aquatex)	SGCC-33	Unlimited size
C-E Glass; Fullerton, California (P-516)	SGCC-299	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio (Pattern 62)	SGCC-188	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio (Roundel)	SGCC-328	34" by 48"
PPG Industries, Inc.; Crestline, Ohio (Roundel)	SGCC-235	26 3/4" by 72"

### 210 inch tempered pattern glass

ASG Industries, Inc.; Greenland, Tennessee (Aquatex)	SGCC-281	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee (Aquatex)	SGCC-31	Unlimited size
C-E Glass; Atlanta, Georgia (Spray Lite)	SGCC-125	Unlimited size
C-E Glass; Bensenville, Illinois (Spray Lite)	SGCC-319	Unlimited size
C-E Glass; Casselberry, Florida (Spray Lite)	SGCC-244	28" by 54"
C-E Glass; Cinnaminson, New Jersey (Spray Lite)	SGCC-265	28" by 68"
C-E Glass; Houston, Texas (Spray Lite)	SGCC-138	Unlimited size
C-E Glass; Lancaster, Ohio; Quarry Road (Spray Lite)	SGCC-144	Unlimited size
C-E Glass; Lancaster, Ohio; Slocum Street; (Spray Lite)	SGCC-333	28" by 39"
C-E Glass; Long Beach, California (Spray Lite)	SGCC-113	Unlimited size
C-E Glass; Miami, Florida (Spray Lite)	SGCC-50	Unlimited size
C-E Glass; Pennsauken, New Jersey (Spray Lite)	SGCC-132	28" by 54"
C-E Glass; Tampa, Florida (Spray Lite)	SGCC-201	Unlimited size
C-E Glass; Warrenton, Missouri (Spray Lite)	SGCC-343	Unlimited size
Hamilton of Indiana, Inc.; Vincennes, Indiana (Aquatex)	SGCC-129	Unlimited size

<u>210 inch tempered pattern glass (continued)</u>		
Minex-Poland; Jaroszwieć, Poland (Pattern 100)	SGCC-140	Unlimited size
Paulding Glass Products, Inc.; Paulding, Ohio (Aquatex)	SGCC-261	Unlimited size
Taiwan Glass Company; Taipei, Taiwan (Pattern 757)	SGCC-329	Unlimited size
Taylor Products, Inc.; Payne, Ohio (Industrex)	SGCC-191	Unlimited size

7/32 inch tempered pattern glass

Armour Laminated Glass Co., Inc.; Santa Fe Springs, California (Aquatex)	SGCC-206	Unlimited size
C-E Glass; Warrenton, Missouri (P-516)	SGCC-344	Unlimited size
Falconer Plate Glass Corporation; Falconer, New York (Factrolite)	SGCC-309	Unlimited size
Guardian Industries Corporation; Fort Lauderdale, Florida (Aquatex)	SGCC-42	Unlimited size
Guardian Industries Corporation; Torrance, California (Aquatex)	SGCC-264	Unlimited size
Ohio Plate Glass Company; Lewisburg, Ohio (Textured Linex)	SGCC-238	Unlimited size
PPG Industries, Inc.; Miami, Florida (Smooth Rough)	SGCC-219	Unlimited size
Tyre Brothers Glass Company; Los Angeles, California (Smooth Rough)	SGCC-256	Unlimited size
Virginia Glass Products Corporation; Martinsville, Virginia (Velvex)	SGCC-92	Unlimited size

## LAMINATED TRANSPARENT GLASS

0.145 inch laminated transparent glass

Globe-Amerada Glass Company; Elk Grove Village, Illinois	SGCC-327	34" by 40"
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SS/SS laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio	SGCC-302	Unlimited size
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SS/DS laminated transparent glass

Asahi Glass Company, Ltd.; Tokyo, Japan	SGCC-116	34" by 48"
Libbey-Owens-Ford Company; East Toledo, Ohio	SGCC-334	Unlimited size
Viracon, Inc.; Owatonna, Minnesota	SGCC-233	Unlimited size

7/32 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee	SGCC-27	Unlimited size
Chromalloy-Safetee Glass Div.; Philadelphia, Pennsylvania	SGCC-158	Unlimited size
Dearborn Glass Company; Bedford, Park, Illinois	SGCC-147	Unlimited size
Globe-Amerada Glass Company; Elk Grove Village, Illinois	SGCC-45	Unlimited size
Laminated Glass Corporation; Detroit, Michigan	SGCC-88	Unlimited size
Safelite Industries; Denver, Colorado	SGCC-222	Unlimited size

1/4 inch laminated transparent glass

ASG Industries, Inc.; Kingsport, Tennessee	SGCC-26	Unlimited size
Asahi Glass Company, Ltd.; Tokyo, Japan	SGCC-115	Unlimited size
Libbey-Owens-Ford Company; East Toledo, Ohio	SGCC-82	Unlimited size
PPG Industries, Inc.; Creighton, Pennsylvania	SGCC-114	Unlimited size
Safelite Industries; Denver, Colorado	SGCC-237	Unlimited size

### 1/4 inch laminated transparent glass (continued)

Tudor Safety Glass Company Ltd.; Queensborough, Kent, England	SGCC-269	Unlimited size
Tyneside Safety Glass Company, Ltd.; Gateshead on Tyne, England	SGCC-296	Unlimited size
Viracon, Inc. Owatonna, Minnesota	SGCC-232	Unlimited size

### 1/2 inch laminated transparent glass

Libbey-Owens-Ford Company; East Toledo, Ohio	SGCC-301	Unlimited size
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## TRANSPARENT WIRE GLASS

### 1/4 inch polished wire glass

ASG Industries, Inc.; Kingsport, Tennessee (3/4 inch diamond mesh)	SGCC-86	Unlimited size
ASG Industries, Inc.; Kingsport, Tennessee (Pinstripe; 1/2 inch parallel)	SGCC-217	Unlimited size
C-E Glass; St. Louis, Missouri (1/2 inch square mesh)	SGCC-284	Unlimited size
Nippon Sheet Glass Company, Ltd.; Osaka, Japan (1/2 inch square mesh)	SGCC-197	Unlimited size

## PATTERN WIRE GLASS

### 7/32 inch pattern wire glass

ASG Industries, Inc.; Kingsport, Tennessee (Pinstripe; 1/2 inch parallel)	SGCC-103	Unlimited size
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## SAFETY PLASTIC SHEET

### 0.060 inch through 0.125 inch acrylic

K-S-H, Inc.; Tustin, California (extruded)	SGCC-212	Unlimited size
K-S-H, Inc.; Xenia, Ohio (extruded)	SGCC-136	Unlimited size

### 0.080 inch and greater thicknesses acrylic

American Cyanamid Company; Sanford, Maine (cast)	SGCC-183	Unlimited size
Robeco Products, Inc.; Tainan, Taiwan (cast)	SGCC-210	Unlimited size
Rohm and Haas Company; Knoxville, Tennessee (cast)	SGCC-153	Unlimited size

### 0.080 inch through 0.187 inch acrylic

Rohm and Haas Company; Louisville, Kentucky (cast)	SGCC-154	Unlimited size
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### 0.080 inch through 0.125 inch acrylic

Flex-O-Glass, Inc.; Dixon, Illinois (extruded)	SGCC-118	Unlimited size
Plaskolite, Inc.; Columbus, Ohio (extruded)	SGCC-152	Unlimited size
Rohm and Haas Company; Bristol, Pennsylvania (cast)	SGCC-167	Unlimited size
Rotuba Extruders, Inc.; Linden, New Jersey (extruded)	SGCC-316	Unlimited size
Sheffield Plastics, Inc.; Sheffield, Massachusetts (extruded)	SGCC-173	Unlimited size
Southern Plastics Company; Columbia, South Carolina (extruded)	SGCC-162	Unlimited size

### 0.090 inch and greater thicknesses polycarbonate

Rowland Products, Inc.; Kensington, Connecticut (extruded)	SGCC-120	Unlimited size
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# SAFETY PLASTIC SHEET FOR INDOOR USE ONLY

COMPLIES ONLY WITH "BREAK SAFE CHARACTERISTICS" OF ANSI Z97.1-1972  
(MUST NOT BE MARKED WITH ANSI Z97.-1972)

## 0.080 inch through 0.125 inch plastic

Plaskolite, Inc.; Columbus, Ohio

(smooth; extruded; indoor use only)

SGCC-170      Unlimited size

## 0.090 inch through 3/16 inch plastic

Intercosmic Plastics; Div. of ICP Industries, Inc.; Miami, Florida

(pattern; extruded; indoor use only) (Seaflair)

SGCC-17      Unlimited size

## 0.090 inch plastic

Southern Plastics Company; Columbia, South Carolina

(pattern; extruded; indoor use only) (Cracked Ice)

SGCC-18      Unlimited size

## 0.100 inch through 3/16 inch plastic

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

(pattern; extruded; indoor use only) (Glacial)

SGCC-99      Unlimited size

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

(pattern; extruded; indoor use only) (Calypso and Glacial)

SGCC-221      Unlimited size

## 0.100 inch through 0.130 inch plastic

K-S-H, Inc.; Fredericksburg, Virginia

(pattern; extruded; indoor use only) (Calypso and Glacial)

SGCC-178      Unlimited size

# PLASTIC COATED GLASS

## 1/8 inch annealed glass; 0.016 inch patterned plastic coating

Visador Company; Jasper, Texas

SGCC-239      Unlimited size

## 3/16 inch annealed pattern glass; 0.005 inch plastic coating

Double Seal Glass Company, Inc.; Flint, Michigan (Lozenge)

SGCC-324      Unlimited size



## SGCC LABEL REQUIREMENTS

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

The permanent label must contain ANSI Z97.1-1972 except for safety plastic sheet for indoor use only (which does not comply with the U.V. requirements of ANSI Z97.1-1972) in which case the label must include the wording "for indoor use only".

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

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

The permanent label must be affixed only to safety glazing materials of the participants' 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 participants 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.

The permanent label must have SGCC authorization and acceptance prior to use.

\* \* \* \* \*

### **ANSI Z97.1-1972 Performance Specifications and Methods of Test for Safety Glazing Material Used in Buildings**

The purpose of Z97.1-1972 is to prescribe the functional properties of safety glazing materials so that they can be used in any place in buildings for which they possess the requisite characteristics. Intended to serve as a convenient reference for building officials, this new and important document is designed to provide a basis for standards that may be incorporated in federal, state, and local regulations.

**ANSI Z97.1-1972  
may be  
obtained at \$3.50  
per copy from  
the American National  
Standards Institute**

**AMERICAN NATIONAL STANDARDS INSTITUTE  
1430 BROADWAY  
NEW YORK, NEW YORK 10018**



Enclosed is my payment of . . . . . Please send . . . . . ANSI Z97.1-1972.

Name \_\_\_\_\_

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


Street \_\_\_\_\_

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

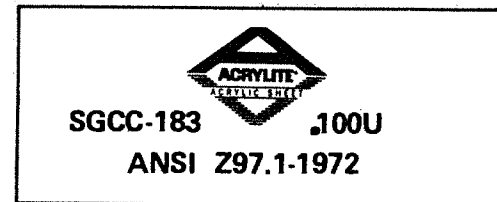
EXAMPLE OF PARTICIPANT'S TYPICAL LABEL

ASG Industries, Inc.  
P.O. Box 88  
Kingsport, Tennessee 37662

TRU-TEMP  
TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1972  
3/16U SGCC 220




American Cyanamid Company  
P.O. Box 591  
Sanford, Maine 04073




Armour Laminated Glass Company, Inc.  
9401 Ann Street  
Santa Fe Springs, California 90670

TEMPERED SAFETY GLASS

 SGCC 204  
3/16 U

ANS Z 97.1-1972

Asahi Glass Company, Ltd.  
c/o Sentinel Enterprises, Inc.  
2138 Biscayne Boulevard  
Miami, Florida 33137

 ·TEMPERLITE·  
ASAHI GLASS  
TEMPERED SAFETY GLASS  
ANSI Z97-1-1972  
SGCC46 187-U


M. L. Burke Company  
33204 Western Avenue  
Union City, California 94587

MLB TEMP  
SAFETY TEMPERED  
GLASS  
ANSI-Z97.1-1972  
SGCC-274 3/16U

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

  
ARM-R-CLAD  
SAFETY TEMPERED  
GE GLASS  
ANSI Z97 1-1972- 187U  
HOUSTON, TEXAS  
SGCC-110

Canadian Pittsburgh Industries, Ltd.  
1299 20th Street, E.  
Owen Sound, Ontario

  
**HERCULITE® K**  
TEMPERED SAFETY GLASS  
CGSB 12-GP-1B AUG. 1971  
ANSI Z97.1-1972  
SGCC-209 3/16" U 841272

Central Glass Company, Ltd.  
One World Trade Center  
Suite 3947  
New York, New York 10048

TEMPERED SAFETY GLASS  
TEMPALEX  
  
CENTRAL  
ANSI Z97.1-1972 1/8-U  
SGCC-230

Chromalloy-Safetee Glass Division  
250 King Manor Drive  
King of Prussia, Pennsylvania 19406

  
TEMPERED SAFETY GLASS  
BY  
CHROMALLOY  
ANSI-Z97.1-1972  
SGCC 181

Dearborn Glass Company  
6600 South Harlem Avenue  
Bedford Park, Illinois 60501

LAMINATED  
SAFETY GLASS  
**D.G.C.**  
7/32U  
A.S.I. Z97.1-1972  
SGCC-147

Double Seal Glass Company, Inc.  
610 South Dexter Street  
Flint, Michigan 48506

Tentative label  
Double Seal  
Plastic  
Safe-T-Glass  
ANSI Z97.1-1972  
SGCC-324 3/16 U

Dura Vue Industries, Inc.  
1515 West 35th Street  
Chicago, Illinois 60609

**DURA VUE**   
TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1972  
SGCC-262 3/16"U

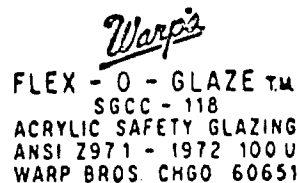
Falconer Plate Glass Corporation  
500 South Wall Street  
Falconer, New York 14733



Feather-lite Manufacturing Company  
1210 East Maple Road  
Troy, Michigan 48084



Flex-O-Glass, Inc.  
1100 North Cicero Avenue  
Chicago, Illinois 60651



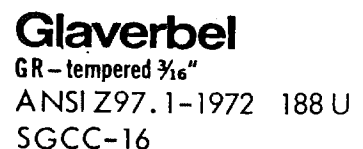
Fourco Glass Company  
P.O. Box 4147  
Station B  
Fort Smith, Arkansas 72901



Glass Guard Industries, Inc.  
Box 817  
Cudworth Road  
Webster, Massachusetts 01570



S. A. Glaverbel  
c/o Veerman International Company  
41 East 42 Street  
New York, New York 10017



Globe-Amerada Glass Company  
2001 Greenleaf Avenue  
Elk Grove Village, Illinois 60007

**Laminated Safety Glass**

SGCC-45  218-U

**ANS Z97.1-1972**

Guardian Industries Corporation  
16400 Romine Road  
Carleton, Michigan 48117



Hamilton of Indiana, Inc.  
2000 Chestnut Street  
Vincennes, Indiana 47591

**TEMPER-TUF**  
**HAMILTON OF INDIANA**  
**ANSI Z97.1-1972 1/8U SGCC-54**  
**TEMPERED SAFETY GLASS**

N. V. Hardmaas  
c/o Veerman International Company  
41 East 42 Street  
New York, New York 10017

**Hardmaas**  
**TEMPERED SAFETY**  
**ANSI Z97.1-1972**  
**1/8 U SGCC 214**

Intercosmic Plastics  
Division of ICP Industries, Inc.  
7410 N.E. Third Court  
Miami, Florida 33138

**ICP MIAMI FLORIDA**  
**POLYSTYRENE SAFETY GLAZING**  
**FOR INDOOR USE ONLY**  
**SGCC - 17 090U**

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

**ANSI Z97.1-1972**  
**KSH, INC. ACRYLIC**  
**.060 U**  
**SGCC 136**

Laminated Glass Corporation  
355 West Lancaster Avenue  
Haverford, Pennsylvania 19041

Laminated Safety Glass  
SGCC-88  7/32-U  
ANS Z97.1-1972

Libbey-Owens-Ford Company  
811 Madison Avenue  
Toledo, Ohio 43624

 **TUF-FLEX®**  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1972 3/16"-U  
SGCC-20

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

**TEMPERED SAFETY GLASS**  
MINEX  
ANSI Z97.1-1972  
SGCC-140 .210 U

Nippon Sheet Glass Company, Ltd.  
c/o Orient Glass Company  
615 South Flower Street  
Los Angeles, California 90017

TEMPERED SAFETY GLASS  
ANSI Z97.1-1972  
SGCC-198 3/16-U  
NSG

Ohio Plate Glass Company  
Box 671  
Lewisburg, Ohio 45338

SAFETY  
TEMPERED  
3/16"-U SGCC  
185  
OHIO  
PLATE  
ANSI Z-97.1 1972

PPG Industries, Inc.  
1000 RIDC Plaza  
P.O. Box 2811  
Pittsburgh, Pennsylvania 15230

**PPG** **HERCULITE K**  
ANSI Z-97.1-1972 3/16"-U  
TEMPERED SAFETY GLASS  
SGCC-62 11372

Paulding Glass Products, Inc.  
West Caroline Street  
Paulding, Ohio 45879

Paulding  
TEMPERED  
SAFETY GLASS  
ANSI Z97.1-1972  
SGCC-261.210-U

Plaskolite, Inc.  
1770 Joyce Avenue  
Columbus, 43219

plaskolite  
ACRYLIC SAFETY GLAZING  
ANSI Z 97.1-1972  
SGCC-152  
.100U

Robeco Products, Inc.  
51 Madison Avenue  
New York, New York 10010

ACRYPOLY  
CAST ACRYLIC  
SAFETY GLAZING  
ANSI Z97.-1972  
SGCC-210 080 U

Rohm and Haas Company  
Independence Mall West  
Philadelphia, Pennsylvania 19105

PLEXIGLAS® R & H CO.  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1966/72 .080U  
SGCC-154

Rotuba Extruders, Inc.  
1401 Park Avenue South  
Linden, New Jersey 07036

Tentative label  
Rotuba Glaz (R)  
ACRYLIC SAFETY GLAZING  
ANS 1 Z97.1-1972  
080 U SGCC-316

Rowland Products, Inc.  
Fairview Lane  
Kensington, Connecticut 06037

ROWLEX®  
POLYCARBONATE SAFETY GLAZING  
ANS Z97.1-1972 SGCC-120  
090 U

January 1974; SGCC 31



Safelite Industries  
P.O. Box 1879  
Wichita, Kansas 67201

SOLID TEMPERED  
SAFE  LITE  
ANSI Z97.1-1972  
1/8 U SGCC-225

Saint Gobain  
c/o Euroglass Corporation  
551 Fifth Avenue  
New York, New York 10017

SAINT-GOBAIN  
SGCC-81 3/16" U-  
D U R F L E X  
ANSI Z97.1-1972

Scanglas A/S  
c/o Interglass Corporation  
240-28 Bayview Avenue  
Douglas Manor, New York 11363

## SCANGLAS

3/16" U TEMPERED  
TRANSPARENT GLASS  
ANS Z 97.1-1972  
SGCC-123

Seraphic (Aust.) Pty. Ltd.  
758 Port Road  
Beverly, South Australia 5009

  
TEMPERED SAFETY GLASS  
ANSI Z97.1-1972  
SGCC-226 3/16 U

Sheffield Plastics, Inc.  
Salisbury Road  
Sheffield, Massachusetts 02157

ACRY-PANE  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1972 .080U  
SGCC-173

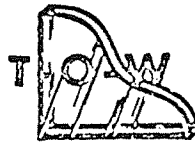
Southern Plastics Company  
P.O. Drawer 39  
Columbia, South Carolina 29202

SOPLASCO  
ACRYLIC SAFETY GLAZING  
ANSI Z97.1-1972  
SGCC-162 .080U

T-O-W Industries, Inc.  
6166 So. Sayre Avenue  
Chicago, Illinois 60638

Tentative label

T  
E  
M  
P  
E  
R  
I  
T  
E



INDUSTRIES

ANSI Z97.1-1972  
SGCC-243 1/4" U

Taiwan Glass Corporation  
10500 Ridder Road  
Wilsonville, Oregon 97070



T G C TEMPERLITE  
ANSI Z97.1-1972 3/16 U  
SGCC-177

Taylor Products, Inc.  
Laura Avenue  
Payne, Ohio 45880



ANSI Z97.1-1972  
SGCC-190 3/16-U

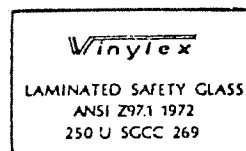
Tempered Glass Corporation  
6900 Adams Drive  
Tampa, Florida 33619

Tentative label

TEMPERED  
GLASS CORP.

ANSI Z97.1 1972  
TEMPERED  
SGCC-347 3/16 U

Tudor Safety Glass Company Limited  
Vinylex Works  
Queensborough, Kent; England



Tuf-flex Glass, Inc.  
305 Busseron Street  
Vincennes, Indiana 47591

Tuf-flex Glass Inc.  
TEMPERED SAFETY GLASS  
1/4"-U ANSI Z97.1-1972  
SGCC-229

Tyneside Safety Glass Company Limited  
Team Valley Trading Estate  
Gateshead on Tyne  
England



Tyre Brothers Glass Company  
3008 South San Pedro Street  
Los Angeles, California 90051



Vidrierias De Llodio, S.A.  
c/o Seaply Glass Company  
271 North Avenue  
New Rochelle, New York 10802



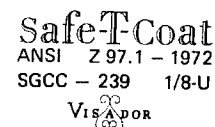
Viracon, Inc.  
800 Park Drive  
Owatonna, Minnesota 55060



Virginia Glass Products Corporation  
P.O. Box 5431  
Martinsville, Virginia 24112



Visador Company  
940 Visador Road  
Jasper, Texas 75951



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Phil Dykstra, National Safety Council	Lynford K. Snell, Federal Housing Administration
Richard C. Elstner, Wiss, Janney & Elstner	Joseph L. Solomon, Glass Guard Industries, Inc.
Thomas Hollander, Evans, Ivory & Evans	Caryl E. Twitchell, 3M Company
Francis J. LaPollo, Consumer Product Safety Commission	Donald J. Vild, Libbey-Owens-Ford Company

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Henry E. Walker, Vice President	Richard C. Elstner, Secretary
Orville L. Pierson, Vice President	Thomas C. Carson, Treasurer

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Homer H. Goldsberry, Vice Chairman; Plaskolite, Inc.	Frederick J. McGarry, Mass. Institute of Technology
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Leonard Bogen, Southern Plastics Company	James S. Meckel, C-E Glass
Paul F. Burnham, Jr., Asahi Glass Company, Ltd.	Richard Miller, Globe-Amerada Glass Company
Thomas C. Carson, ASG Industries, Inc.	Earle D. Moiles, Chromalloy-Safetee Glass Div.
Delbert L. Christensen, Flex-O-Glass, Inc.	Bernard Nathan, Tuf-flex Glass, Inc.
Thomas Coyne, Guardian Industries Corporation	Norman Nitschke, Glasstech, Inc.
Phil Dykstra, National Safety Council	Richard E. Ostrop, Rowland Products, Inc.
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William W. Korn, K-S-H, Inc.	Jack A. Veerman, S. A. Glaverbel; Hardmaas
Harold Landsman, Viracon, Inc.	Donald J. Vild, Libbey-Owens-Ford Company
Francis J. LaPollo, Consumer Product Safety Commission	Henry E. Walker, Fourco Glass Company
R. F. Lavis, Seraphic (Aust.) Pty. Ltd.	

SGCC CERTIFICATION PROGRAM ADMINISTRATOR

Robert A. Nance, P.E., CSC	Felix A. Castillo, P.E., CSC
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AUDITOR

Joseph B. Press, CPA

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

FORWARD

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

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

To insure administration of the Certification Program in a uniform and equitable manner, this Procedural Guide has been prepared for the information and guidance of the participants.

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

GENERAL INFORMATION

*The Certification Concept*

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

To buyers, specifiers, code officials and users, the SGCC certification label offers the manufacturer's *assurance* that his safety glazing material has been *produced in conformance* to American National Standard Z97.1 covering safety glazing materials used in buildings.

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

### *Who Can Participate?*

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

### *Who Conducts the Program?*

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

### *Administration*

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

### *How Can You Become a Participant?*

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

- a) The manufacturer signs two copies of the SGCC License Agreement (including notarization of the Affidavit, Appendix A) and sends these to SGCC. SGCC will countersign both copies and return one to the manufacturer.
- b) The manufacturer sends to SGCC one copy of a valid test report from an official SGCC-recognized prototype testing laboratory indicating full and complete compliance with the Specifications, namely ANSI Z97.1. (This is the "initial" or "prototype" testing and the sample is furnished by the manufacturer directly to any one of the SGCC-recognized independent commercial prototype testing laboratories, which the manufacturer selects.)
- c) The manufacturer sends to SGCC the six-month certification fee *for each item which is to be certified.*
- d) The manufacturer sends to SGCC a *black on white* copy of his proposed permanent label.

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

### HOW THE CERTIFICATION PROGRAM WORKS

The American National Standards Institute sets safety standards and safety glazing materials *must meet or exceed* applicable ANSI standards before they can be certified by SGCC. Specifications for safety glazing materials used in buildings are developed and reviewed at least every five years by ANSI.

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

#### *Administrator Authorizes Certification*

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

*Participants Label Safety Glazing Material* within the limits of the product size tested. If 34" by 76" is the initial or prototype test size, then certification is extended to all sizes and the label contains a letter U, designating such unlimited size. The letter L, contained within the label, denotes that certification is limited to the width and length of the initial or prototype test size.

#### *Products Listed in Certified Products Directory*

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

*The Administrator Samples Certified Safety 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 \$150 per man day *plus* the reasonable costs of travel and 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 complaintant's surety deposit, *unless the investigation proves non-compliance, in which case all costs will be borne by the participant found to be in non-compliance.*

#### *Withdrawal of Certified Product*

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

#### COSTS

##### *What Does The Program Cost?*

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

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

##### Program Costs:

\$402.50 per six months for the first product at a plant.

\$102.50 per six months for each additional product at the same plant.

##### Distribution of Fees:

\$15.00 per six months from each product to SGCC for administrative expenses.

\$387.50 per six months from the first product at each plant to CSC.

\$87.50 per six months from each additional product at the same plant to CSC.

#### 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 Ammendments 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 to a July 1 to January 1 basis), and is automatically renewed for sucessive,

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.

#### *Administration Service Agreement*

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

- a) samples certified products routinely
- b) has the right to witness any and all testing
- c) reviews all test reports in order to determine compliance of the certified product with the Specifications
- d) inspects and approves all in-plant and Test Laboratory test facilities for use in this Certification Program (Test Laboratories are "recognized" or approved by the SGCC Certification Committee)
- e) publishes and mails the SGCC Certified Products Directory on or about each January 1 and July 1
- f) handles all routine clerical duties of SGCC with respect to certification matters
- g) acts as SGCC treasurer, invoicing participants, maintaining a bank account and dispersing funds (fiscal reports are made to the SGCC Certification Committee)
- h) furnishes all testing except for prototype tests
- i) attends all scheduled meetings of the SGCC Certification Committee and
- j) in all of its actions acts in the name of SGCC.

#### *Procedural Guide*

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

#### *Certified Products Directory*

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

## *Certification Label*

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

## PROGRAM RESPONSIBILITY

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

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

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

## *Communications*

*SGCC Board of Directors*  
Mr. Norman C. Nitschke, Chairman  
Glasstech, Inc.  
801 Front Street  
Toledo, Ohio 43605  
Phone: 419-693-0696

*SGCC*  
Mrs. Shirley Stafford, Asst. Secy.  
1640 West 32 Place  
Hialeah, Florida 33012  
Phone: 305-558-1352

*SGCC Certification Committee*  
Mr. Robert L. Brown, Chairman  
Virginia Glass Products Corporation  
P. O. Box 5431  
Martinsville, Virginia 24112  
Phone: 703-956-3131

*SGCC*  
Mr. Robert A. Nance, P. E.  
Administrator of Certification  
1640 West 32 Place  
Hialeah, Florida 33012  
Phone: 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 for certification.
- G.2 Tests for initial compliance of safety glazing with ANSI Z97.1 will be accepted from Approved Engineering Test Laboratories, Bowser-Morner Testing Laboratories, Inc., British Standards Institution, Electrical Testing Laboratories, Inc., Institut National Du Verre, Miami Testing Laboratory, Inc., Patzig Testing Laboratories Company, Inc., Twining Laboratories of Southern California, Inc. or other testing laboratory subsequently approved by the SGCC Certification Committee.
- G.3 Paragraph (1) Section 4.1.3 of ANSI Z97.1-1972 is intended to apply to laminated, wire and plastic coated glasses only. Paragraph (2) is intended to apply to tempered glass only. Paragraph (3) is intended to apply to plastics only. Paragraph (4) is intended to apply to any safety glazing material.
- G.4 Sealed insulating glass can not be certified per se, but each layer can be a certified item.
- G.5 The SGCC item number when used as part of an authorized 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 All test specimens, except for prototype samples, must be marked with an SGCC authorized permanent label prior to testing in order to be considered a valid sample. The Administrator shall construe the absence of an authorized label as failure of the said specimen to comply with the Specifications.
- G.7 Initial certification of all items shall be temporary and is limited to three months, pending authorization by SGCC of the actual permanent label. Certification shall be removed from items for which SGCC does not receive a black on white copy of the permanent label within three months.
- G.8 After initial compliance with a sample size as stated in Table 1, testing of other sizes which represent the sizes manufactured may be allowed, provided however that all sizes produced up to the size provided by Table 1, ANSI Z97.1-1972 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:

G.10 (continued)

- 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 routine evaluation samples fail to comply with the Specifications:

- a) Written notice is sent to the participant by the Administrator that within 30 days participant must submit samples to the Administrator. Written notice of removal of certification is issued to the participant by the Administrator if the samples are not received within the allotted 30 days or if the samples submitted fail 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 at least twice a year). The costs involved shall be paid by the participant.
- c) The Administrator shall be certain that the sample obtained in b) above is of recent production.
- d) Certification shall be removed if the additional random sample obtained in b) above fails to comply with the Specifications.

G.12 If a participant who manufactures a certified product outside the 48 contiguous States feels that in a particular instance that he will be unable to act as provided for in paragraph b) of SGCC Guideline G.11, he should notify the Administrator. The Administrator will then contact the Chairman of the Certification Committee for a decision as to what action is to be taken.

G.13 In cases where a certified item is produced infrequently or in small quantities so as to make it difficult for the Administrator to obtain routine evaluation samples, the participant shall notify the Administrator at least two weeks in advance of any production of such item.

G.14 The Administrator shall remove certification from all of any participants products for failure to pay any monies due to SGCC within 30 days of invoice date. (Reference License Agreement A.2, A.12 and B.6).

G.15 In the situation where a participant desires to recertify a product that previously had certification removed because of failure to comply with the Specifications, the product shall be routinely sampled four times during the first year. The costs involved shall be paid by the participant.

G.16 The SGCC Certified Products Directory shall be reissued and distributed every six months (about January 1 and July 1) or more often: 1) at the request of the majority of the Certification Committee, 2) at the request of an individual participant, or 3) at the direction of the Board of Directors. When an individual participant requests the additional mailing, he will be charged the entire cost. Distribution at present is to all FHA field offices and all AAMA member companies. Each participant is requested to submit additional names for mailing.

- 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 Any type of safety glazing material that is laminated, including those with a sprayed on plastic coating and those with an applied sheet plastic material, must comply with the requirements of paragraph 4.2 of the ANSI Z97.1-1972 (boil test).
- G.19 Certified and permanently labeled safety glazing materials such as laminated glass, wire glass or rigid plastic may be cut into smaller pieces by a distributor or installer after manufacture and it is not practical for each such smaller piece to bear a manufacturers' permanent label when finally installed in a building. When this is the case, then the distributor or installer shall apply a permanent label to each piece, which states his name and certifies that he cut the piece from material that was properly labeled in accordance with the requirements of SGCC.

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

- G.20 The semi-annual invoicing date for certification fees shall be April 1 and October 1 of each year and the Administrator is instructed to take those steps necessary to remove certification from participants for failure of payment prior to closing date of the certified products directory.
- G.21 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.22 A preissued SGCC certification number shall be issued by the Administrator upon receipt of a properly executed license agreement and a properly executed bond form in the amount of \$10,000. The condition of the bond is such that if the participant does not label any safety glazing material with the preissued certification number prior to formal certification then the bond shall be void.
- G.23 In cases where a member of the certification committee is not present or does not send a proxy for two consecutive meetings, the Chairman shall recommend by letter to the Board of Directors removal of such member from the certification committee. A copy of this letter shall be sent to the member in question.

#### TEMPERED TRANSPARENT GLASS

- T.1 Certification of either flat glass or patterned glass will not cover the other except as noted in guideline T.2. (Flat glass designates ground and polished plate, float and sheet glass.)
- T.2 Polished plate glass and the rough plate glass blank from which it is produced will be considered to be of equal nominal thickness. Certification of tempered flat glass will therefore be interpreted as including tempered rough plate blank.
- T.3 Certification of regular tempered glass will also cover tinted, heat absorbing and coated glasses of the same nominal thickness.

T.4 In cases where certified tempered glass is normally not available for sampling the participant may make an overrun (of four lights of prototype size that are to be marked with the date of production) when the item is in normal production and these will be accepted by the Administrator if other samples are not available. Otherwise when production samples are not available the Administrator shall notify the participant to submit prototype size samples to the Administrator within six weeks.

T.5 Certification of any nominal thickness of tempered safety plate, float or sheet glass will also cover the other two types. ANSI Z97.1 does not require the permanent label on tempered safety glass to specify which type of glass is used nor is it required that the test specimens be identified in this regard.

Since the minimum allowable thickness in Federal Specifications DD-G-451c is different for plate/float and sheet glass of equal nominal thickness, SGCC may not in all cases be able to certify the glass tested meets this specification. When this situation arises, the participant upon the request of SGCC must furnish a statement indicating all plate/float and sheet of his manufacture meet the thickness requirements of Federal Specification DD-G-451c.

T.6 For certification purposes the nominal thickness of 32 ounce tempered transparent shall be 4 mm and thickness tolerance shall be 3.8 mm (0.150 inches) minimum and 4.2 mm (0.165 inches) maximum.

#### TEMPERED PATTERN GLASS

TP.1 For certification purposes the nominal thickness of 210 tempered pattern glass shall be 0.210 inches and thickness tolerances shall be plus 0.031 inches and minus 0.016 inches.

TP.2 Certification of one patterned glass will also cover similar patterns of the same nominal thickness. The participant shall furnish to the SGCC Certification Committee 6" by 6" samples of each type of patterned glass he wished included in each group. These will be reviewed by the Certification Committee to evaluate their similarity to the pattern tested.

TP.3 The maximum thickness shall be recorded when measuring the thickness of pattern glass.

TP.4 For tempered pattern glass, one specimen must be weighed and the weight of ten square inches determined from the weight, width and height of that specimen to use for ANSI Z97.1-1972 test purposes.

#### LAMINATED GLASS

L.1 Certification of regular laminated glass will also cover tinted, heat absorbing and coated glasses of the same nominal thickness.

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

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



- L.4 When a laminated glass is certified, other laminated glasses having the same thickness or thicknesses of glass and a greater thickness of plastic interlayer will be considered to be of equal nominal thickness and to be included in the certification.
- L.5 Laminated safety glass need not be identified by type of base glass.

#### WIRE GLASS

- W.1 Certification of one polished wired glass may be applied to other polished wire glasses, provided:
  - a) The glass thickness of the candidate glass is nominally equal to the thickness of the glass that is certified.
  - b) The wire diameter in the candidate glass is at least as great as the wire diameter in the glass that is certified.
  - c) The spacing of the wires in the candidate glass is no greater than the spacing of the wires in the glass that is certified.
  - d) The Certification Committee has been presented with a copy of the results of a test indicating that compliance of the candidate glass with the requirements of Z97.1-1972 impact testing has been made.

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

#### PLASTICS - GENERAL

- P.1 Certification of one tint or color of rigid plastic will also cover other tints or colors of the same nominal thickness.
- P.2 For certifying all plastics covering a range of thicknesses prototype impact tests are required of the minimum thickness and also of the maximum thickness (except that 0.250 inch thickness would be tested if the maximum thickness exceeds 0.250 inches). Only one certification number will be issued and shall be marked upon all thicknesses. Routine re-evaluation samples are to be selected by the Administrator from any of the certified thicknesses.
- P.3 Certification of one patterned rigid plastic will also cover similar patterns of the same nominal thickness. The participant shall furnish to SGCC Certification Committee 6" by 6" samples of each type of patterned plastic he wished included in each group. These will be reviewed by the Certification Committee to evaluate their similarity to the pattern tested.
- 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.

#### Interim Guideline

- P.6 SGCC shall use as an interim guideline a chamois skin cover in lieu of the required terry cloth on the impactor as an aid in interpretation of break patterns of plastics. Occurrence of less than four perforations of the chamois skin shall indicate satisfactory compliance of the test (Section 4.1 of ANSI Z97.1-1972). This guideline to be used no later than June 30, 1974.

### PLASTICS - EXTERIOR USE

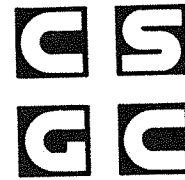
- PE.1 Sheet plastics for exterior use must comply with paragraph 4.3 of the ANSI Z97.1-1972 (UV Weathering).
- PE.2 Certification of plastics for exterior use shall be permitted prior to completion of ANSI Z97.1-1972 Weathering Tests (paragraph 4.3) provided that a considered expert opinion states that the infrared spectrogram indicates that the plastic is an acrylic or U.V. inhibited polycarbonate of proven weatherability. Certification shall be removed if compliance with the weathering test is not demonstrated within six months of the certification date.
- PE.3 For all plastics requiring UV weathering tests an infrared spectrogram shall be obtained of all prototype weathering specimens. An infrared spectrogram shall be obtained of all routine re-evaluation samples and shall be compared with that of the prototype in lieu of conducting weathering tests.
- 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 specimen shall be notched prior to U.V. exposure and the notched surface shall be exposed to the U.V.

### PLASTICS - INDOOR USE ONLY

- PI.1 Sheet plastic for indoor use only do not have to comply with paragraph 4.3 of the ANSI Z97.1-1972 (UV Weathering).
- PI.2 The permanent label authorized by SGCC must include "for indoor use only".

# CONSUMER SAFETY GLAZING COMMITTEE

825 Hylton Road, Pennsauken, N.J. 08110 ■ Area Code 609/662-0400



December 28, 1973

## SPONSORING ORGANIZATIONS:

International Brotherhood of  
Painters and Allied Trades, AFL-CIO

Flat Glass Marketing Association

National Glass Dealers Association

PPG Industries, Inc.

Architectural Aluminum  
Manufacturers Association

Glass Tempering Association

Home Conference-  
National Safety Council

National Woodwork Manufacturers  
Association, Inc.

ASG Industries, Inc.

Libbey-Owens-Ford Company

Rohm and Haas Company

C-E Glass Company

Globe-Amerada Glass Company

Bureau of Community  
Environmental Management (Injury  
Control), U.S. Public Health Service

Mobay Chemical Company

National Sash and  
Door Jobbers Association

Fourco Glass Company

Sealed Insulating Glass  
Manufacturers Association

General Electric Company  
Plastics Department

U.S. Plywood—Champion Papers

Solar Control Products Corporation

J. W. Carroll and Sons

Bureau of Product Safety,  
Food and Drug Administration

Door Lite Producers Association

Guardian Industries Corp.

Windor Industries

Visador Company

Monsanto Chemical Co.

## CONSUMER SAFETY GLAZING COMMITTEE STATUS REPORT

By William J. Birch

### A. MODEL BUILDING CODES

The Southern Standard Building Code, the Basic Building Code, and the Uniform Building Code have adopted upgraded glass safety requirements; and these appear in the 1969 or 1970 editions of the respective codes.

### B. ONE AND TWO FAMILY DWELLING CODE

This is a model building code, specifically for one and two family dwellings, developed by a joint effort of all three of the model building codes and the American Insurance Association.

A section on glass, including a section on safety glazing in areas subject to accidental human impact, is included.

### C. STATE BUILDING CODES

#### 1. Mandatory State Codes\*

Seven states have mandatory state codes: Indiana, North Carolina, Ohio, Minnesota, Wisconsin, California and Connecticut. All except Wisconsin include upgraded safety glazing requirements in their codes.

Wisconsin is in the process of upgrading its codes.

#### 2. Special State Regulations

New York has adopted Rule No. 47 relating to "Transparent Glass Doors in Mercantile Establishments and in Public and Commercial Buildings and Structures".

Maryland has adopted Regulations 43HO4 relating to "Transparent Glass Doors in Mercantile Establishments and in Public and Commercial Buildings and Structures".

\*Building Codes: Report of Advisory Commission on Inter-governmental Relations - January 1966.



## D. SAFETY GLAZING LEGISLATION

- Arkansas - Senate Bill No. 34 became law. Effective date Jan. 1, 1974.
- California - Assembly Bill No. 399 became law. Effective date Nov. 1970. This was amended by Senate Bill No. 601 which became effective Nov. 1971.
- Colorado - House Bill 1110 became law. Effective date July 1, 1971.
- Connecticut - Bill No. 8501 became law. Effective date October 1, 1973.
- Delaware - Senate Bill No. 23 became law. Effective date Jan. 1, 1972.
- Florida - House Bill No. 214 became law. Effective July 1, 1969. An amended version, Senate Bill No. 417, was passed by the legislature and became effective July 1, 1970.
- Georgia - House Bill 412 became law. Effective date July 1, 1970.
- Hawaii - House Bill No. 379 became law. Effective date May 28, 1971.
- Illinois - Senate Bill No. 101 became law. Effective date Jan. 1, 1972. House Bill No. 4104 became law in June 1972. Changes effective date of SB.101 to Jan. 1, 1973.
- Kentucky - House Bill 353 became law. Effective date Jan. 1, 1971.
- Louisiana - Senate Bill No. 460 became law. Effective date Jan. 1, 1973.
- Maryland - House Bill No. 7 became law. Effective date July 1, 1973.
- Massachusetts - Senate Bill No. 1401 became law. Effective date April 1, 1972. House Bill 5324 became law, changing effective date of SB. 1401 to January 1, 1973.
- Michigan - House Bill No. 5740 became law. Effective date July 1, 1973.
- New Jersey - Assembly Bill No. 496 became law. Effective date March 28, 1972.
- New York - Assembly Bill 11456 - Senate Bill 9580 became law. Effective date July 1, 1973.
- Ohio - House Bill No. 9 became law. Effective date July 1, 1972. House Bill No. 1172 became law, changing effective date of HB.9 to Jan. 1, 1973.
- Oklahoma - House Bill No. 1350 became law. Effective date Jan. 1, 1972.
- Oregon - House Bill 1771, and the regulations developed by the Public Health Department, became law effective July 1, 1970.
- Pennsylvania - Senate Bill No. 29 became law. Effective date Jan. 1, 1972.
- Rhode Island - House Bill 5030 became law. Effective date July 8, 1973.
- South Carolina - House Bill 1433 became law. Effective date Jan. 1, 1974.
- Tennessee - Senate Bill No. 178 became law. Effective date Jan. 1, 1972.
- Virginia - Senate Bill No. 656 became law. Effective date Jan. 1, 1974.
- Washington - House Bill No. 137 became law. Effective date Jan. 1, 1974.
- West Virginia - House Bill No. 504 became law. Effective date July 1, 1971.

## LEGISLATIVE SESSIONS

- Alabama - Bill drafted.
- Arizona - House Bill No. 2161 became law. Effective date July 1, 1974.
- Iowa - Bill drafted.
- Kansas - Senate Bill No. 332 passed by Senate. In House Committee.
- Minnesota - House Bill No. 874 passed and Senate Bill No. 1051 in Committee.
- Missouri - Bill has been prefiled for this session.
- Nebraska - Bill will be introduced this session.
- New Hampshire - Bill in Senate Committee.
- South Dakota - Senate Bill No. 53 became law. Effective date July 1, 1974.
- Texas - Senate Bill No. 688 and House Bill No. 674 in Committee.
- Wisconsin - Senate Bill No. 344 in Senate Committee.

E. FHA MINIMUM PROPERTY STANDARDS

In July 1969, FHA issued Interim Revision No. 45 revising those sections of the Minimum Property Standards for 1 and 2 Family Dwellings dealing with the glazing requirements for sliding glass doors, storm doors, tub enclosures and shower doors and fixed-glazed panels adjacent to entrance or exit doors.

Also issued was Revision No. M-13. This revision imposed in Multi-family Housing the same requirements that Revision No. 45 requires for 1 and 2 Family Dwellings.

The two revisions require use of only safety glazing material in all sliding glass doors, tub enclosures and shower doors. Safety glazing materials must also be used in storm doors and those fixed panels adjacent to entrance doors unless the glazing is protected by substantial grilles on both sides up to a height of 42 inches from the floor level.

These FHA requirements also apply to a new public housing and housing built with VA and Farmers Home Administration Financing.

F. MOBILE HOME STANDARDS

The American National Standard ANSI-A119.1, sponsored by the Mobile Home Manufacturers Association, has been adopted by 35 states through legislative enactment. Thus, these states have adopted this ANSI Standard as the code for mobile homes.

The current edition, ANSI A119.1971, of this Standard, incorporates safety glazing requirements for glazing in "hazardous locations".

\* \* \* \* \*

SGCC APPROVED TESTING LABORATORIES

Approved Engineering Test Laboratories; 1431 Potrero Avenue; South El Monte, California 91733  
Attention: Mr. Joseph E. Hawkins; Telephone: (213) 283-8465

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

British Standards Institution; Maylands Avenue; Hemel Hempstead; Herts, England  
Attention: Mr. Alan Attryde

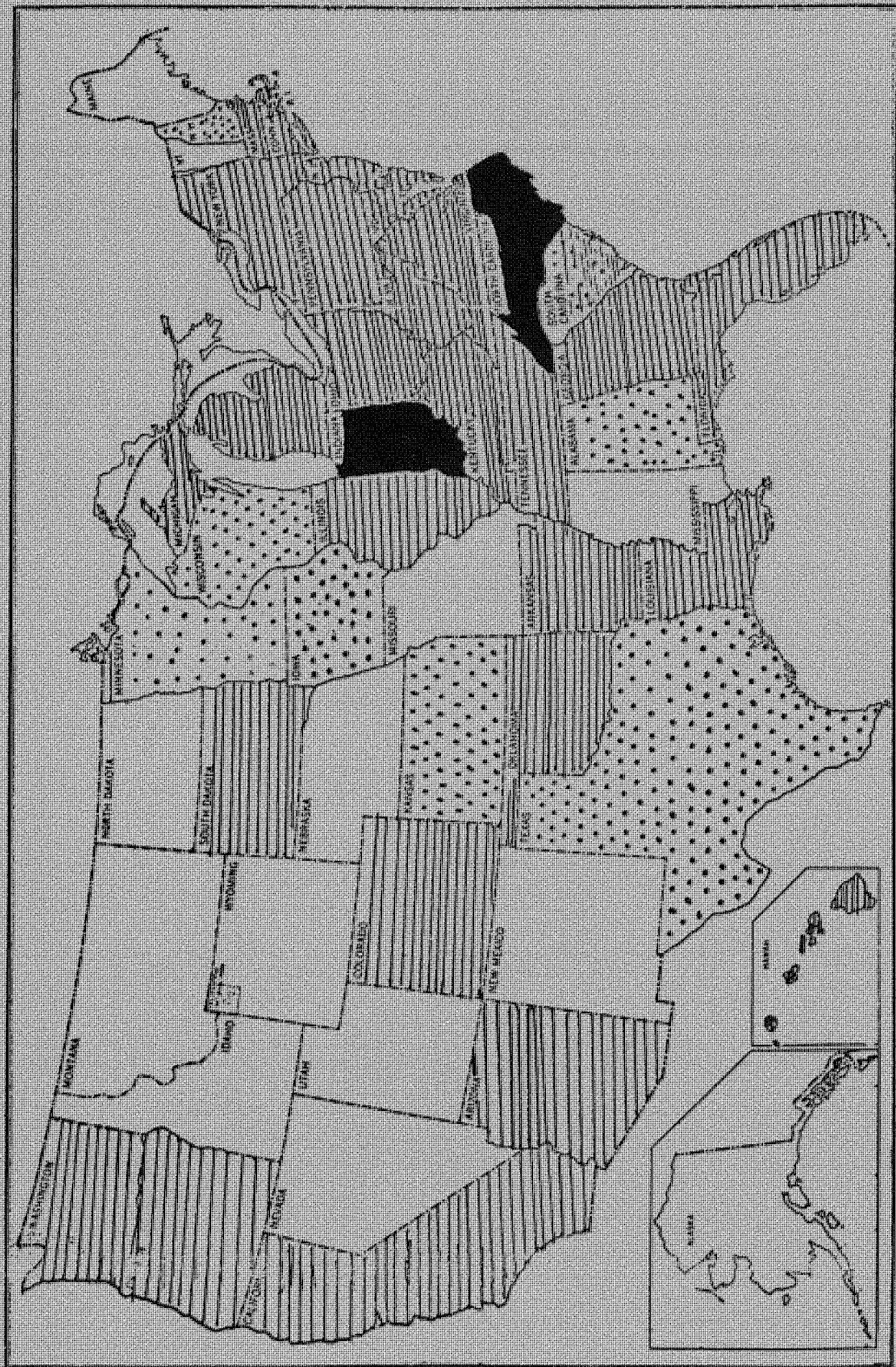
Electrical Testing Laboratories, Inc.; 2 East End Avenue; New York, New York 10021  
Attention: Mr. Claude F. Robb; Telephone: (212) 288-2600

Institut National Du Verre; Boulevard Defontaine, 10; B-6000 Charleroi; Belgium  
Attention: Mr. Pierre Gilard

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

Patzig Testing Laboratories, Inc.; 2215 Ingersoll Avenue; Des Moines, Iowa 50312  
Attention: Mr. Byron A. Marks; Telephone: (515) 243-4105

Twining Laboratories of Southern California; 3310 Airport Way; Long Beach, California 90801  
Attention: Mr. Edward H. Rubin; Telephone: (213) 426-3355



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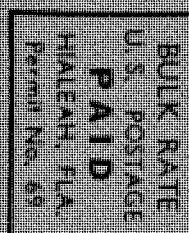


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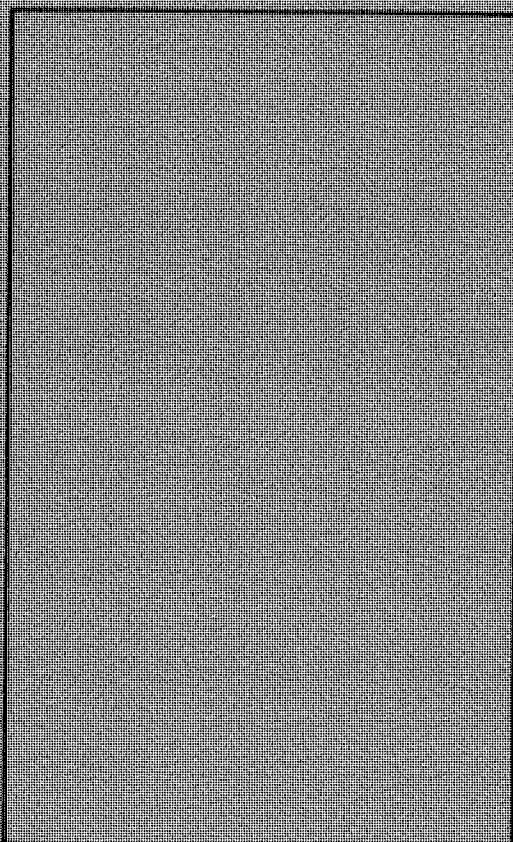
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