

safety glazing certification council

JANUARY 1, 1986

certified products directory
safety glazing material used in buildings

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MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Safety Glazing Certification Council met on April 17 and 18, 1985 and October 24 and 25, 1985. Interested persons may obtain minutes of these meetings by writing to the Safety Glazing Certification Council.

* * * * *

Certification in this directory is up-to-date as of January 1, 1986; however, products may be certified or certification removed from time to time. Please contact the SGCC office for the latest up-to-date information.

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

Mr. Claude F. Robb Administrative Manager Safety Glazing Certification Council C/O ETL Testing Laboratories, Inc. Industrial Park - Route 11 Cortland, NY 13045

Telephone 607-753-6711

ROSTER

SGCC BOARD OF DIRECTORS

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NOTE: Effective January 1, 1986 the operation of the SGCC program was transferred to ETL Testing Laboratories, Inc., P.O. Box 2040, Cortland, NY 13045. Telephone: 607-753-6711. All inquires related to the program should now be directed to

ETL.

SGCC CERTIFICATION COMMITTEE

Robert A. Moss, Chairman

Henry A. Gorry, Vice-Chairman

Licensee	Primary Member	First Alternate	Second Alternate
AFG Industries, Inc.	William C. Cooke	Billie G. Nichols	Thomas C. Carson
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Falconer Glass Industries, Inc.	Richard E. Turner	Leigh T. Yates	Richard Stout
Flex-O-Glass, Inc.	Harold G. Warp	Delbert Christensen	
Ford Motor Company	Richard L. Morrison	C. D. Goodman	
Fulton Glass Industries, Inc.	Paul F. Tumey	David Farley	Howard Bienenfeld
Gateway Industries	D. Mann	D. Pruitt	Henry A. Gorry
General Glass Corporation	Paul Toltz	Randy Toltz	
Glass Tempering Service, Inc.	Virgil S. Taylor	-	
Glasstemp, Inc.	Steve Lacey	Jim Johnson	Lannie Cunningham
Guardian Industries, Inc.	Henry A. Gorry	R. L. Alonzo	
Hamilton Glass Products, Inc.	Robert A. Moss	Gary L. Tate	Ronald Purdue
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Libbey-Owens-Ford Company,	Anthony R. Shaw	Mark S. Suffron	
Ohio Plate Glass Company	Gene Gilbert	John Barr	
PPG Industries , Inc.	Richard T. McGuire	Charles R. Sutermaster	John M. Schlueter
PPG Industries Canada, Ltd.	D. A. Clarke	W. C. Clanahan	Richard T. McGuire
Rotuba Extruders, Inc.	Albert M. Bell	Eugene E. Drood	
Sheffield Plastics, Inc.	Thomas Kradel	Bernard W. Brooks	
Southern Wholesale Glass, Inc.		Douglas A. Long	Freddie Michael
Sunglas Products, Inc.	Richard L. Morrison	Bart Jones	
Tempered Glass Corporation	Paul F. Tumey		Howard Bienenfeld
Tempered Glass, Inc.	D. A. Sampsel	D. P. Singleton	W. A. Stone
Tempglass, Inc.	Irvin D. Fintel		
Tempglass Eastern, Inc.	John C. Mulvanerty		
Temp-Tech Industries, Inc.	Bart Semeraro		
Texas Tempered Glass Company	Hugh France	Robert D. Lauter	
TRACO	Robert P. Randall	John Kalakos	
Vidrierias De Llodio, S.A.	A. Subinas Landa	Henry A. Gorry	
Viracon, Inc.	Harold Landsman	Rick Voelker	Larry Kunkel
Virginia Glass Products Corporation	Robert L. Brown	Brooks R. Leavitt	A. P. Stillman
Virginia Mirror Company, Inc.	W. C. Beeler, Jr.	Robert L. Brown	
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National Bureau of Standards
Consumer
Consumer
Consumer
Texas Tech University

Texas Tech University Glasstech, Inc.

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Representing Industry

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

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

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

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

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

Mr. William C. Cooke AFG Industries, Inc. P.O. Box 929 Kingsport, TN 37662 Telephone: 615-229-7302

PROGRAM CONCEPT

The safety of the public is paramount. Manufacturers of safety glazing products, building code administrators and others responsible for the safety of the public, recognizing the need for a common standard for safety glazing materials, jointly established the Safety Glazing Certification Council (SGCC) in 1971.

The Safety Glazing Certification Council is a non-profit organization which has established and maintains a program to administrater periodic testing as outlined in American National Standard Z97.1-1984, an internationally recognized standard for safety glazing in buildings. This standard subjects glazing materials to a practical test to determine that if they are broken by human contact, they break in a manner that would minimize the likelihood of cutting or piercing injury. SGCC's responsibilities are threefold: to assure a periodic testing program is maintained; to approve and register the form of the manufacturer's label; and to withdraw the manufacturer's authority to use that label if its products do not meet ANSI Z97.1-1984 standards.

Management and control of the program is vested in a board of directors, half representing industry and half representing public interest. The public interest representatives are empowered to veto any action regardless of the number present at a meeting. This insures against industry dominance of SGCC actions. The organization operates an independent third party certification and testing program.

The program uses independent testing laboratories under the supervision of a qualified administrator who is a professional engineer. He is unaffiliated with any manufacturer of safety glazing materials and is hired by and responsible to the Safety Glazing Certification Council. The manufacturer of the products listed herein has certified that the labeled materials comply with the safety characteristics established by ANSI Z97.1-1984. The compliance of the manufacturer with the requirements of that standard is being checked periodically by an independent testing laboratory under the supervision of SGCC.

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

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

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

CLASSIFIED TEMPERED GLASS PATTERNS

1/8 inch shallow (01) P-516 (34) Velvex (82) Pattern 62 (120) Sünadex (164) Model 12	(02) Luxlite (36) Ribbed (83) Pointex (147) Solatex I (165) Spotswood	(03) Factrolite (37) Aquatex (86) Showerlite (150) Solatex II	(09) Spraylite (38) Finetex (87) Heliplite (160) Model 10	(32) Muralex (39) Industrex (117) Solatex (163) Model 11
1/8 inch medium (04) Rattan (11) Flemish (56) Syenite	(05) Cotswold (31) Skytex (57) Pattern 229	(06) Patchwork (33) Seashell (154) Rain	(07) Burlap (35) Flax	(08) Smooth Rough (52) Pattern 73
1/8 inch deep (10) Autumn				
5/32 inch deep (59) Luxlite (74) Ribbed (118) Solatex (127) Mistron Ace (156) Clar 104	(60) Factrolite (75) Aquatex (121) Sunadex (128) Showerlite (157) Model 10	(64) Spraylite (76) Finetex (123) P-516 (148) Solatex I (158) Pontilhado	(70) Muralex (81) Pattern 6 (124) Heliolite (151) Solatex II (161) Model 11	(72) Velvex (88) Pattern 100 (126) Pattern 62 (153) Flax (162) Model 12
5/32 inch medium (61) Cotswold (71) Seashell (80) Pattern 76	(62) Burlap (73) Flax (130) Cathedral	(63) Smooth Rough (77) Pattern 73 (146) Pattern 28	(66) Flemish (78) Syenite (155) Rain	(69) Skytex (79) Pattern 229)
5/32 inch deep (65) Autumn	(67) Oceanic	(68) Roundel		
3/16 inch shallow (50) Pattern 62 (122) Sunadex (134) Pattern 100 (139) Pluralite (152) Solatex II	(51) P-516 (125) Spraylite (135) Pattern 6 (140) Flax (159) Model 10	(54) Showerlite (131) Industrex (136) Burlap (141) Skytex	(116) Heliolite (132) Velvex (137) Factrolite (142) Chinchilla	(119) Solatex (133) Aquatex (138) Satinlite (149) Solatex I
3/16 inch medium (58) Pattern 76	(143) Seashell	(144) Syenite	(145) Flemish	
3/16 inch deep (12) Oceanic	(13) Roundel	(41) Lozenge		
210 Shallow (89) Velvex (94) Pattern 6 (99) Satinlite (105) Cascade (166) Sportswood	(90) Muralex (95) Pattern 62 (100) Luxlite (106) Pluralite	(91) Industrex (96) Spraylite (101) J-3 (108) Flax	(92) Aquatex (97) Burlap (102) P-516 (110) Skytex	(93) Pattern 100 (98) Factrolite (103) Smooth Rough (115) Chinchilla
210 medium (107) Seashell	(109) Beadex	(111) Syenite	(112) Flemish	(113) Textured Linex
210 deep (104) Lozenge	(114) Broadlite			
7/32 inch shallow (14) Velvex (19) Pattern 6 (24) Satinlite (30) Cascade (84) Chinchilla	(15) Muralex (20) Pattern 62 (25) Luxlite (42) Pluralite (129) Orange Peel	(16) Industrex (21) Spraylite (26) J-3 (44) Flax	(17) Aquatex (22) Burlap (27) P-516 (46) Skytex	(18) Pattern 100 (23) Factrolite (28) Smooth Rough (55) Textured Plate
7/32 inch medium (43) Seashell	(45) Beadex	(47) Syenite	(48) Flemish	(49) Textured Linex
7/32 inch deep (29) Lozenge	(53) Boradlite			

SGCC NO.	SGCC NO.	SGCC NO.
12 Virgina Glass	391 Flex-Temp	933 Guardian Industries
14 Virgina Glass	392 Flex-Temp	934 Guardian Industries
19 LOF Glass	396 Ford Motor Company	935 Downey Glass
24 AFG Industries	397 Ford Motor Company	949 AFG Industries
28 AFG Industries	400 PPG Industries	952 PPG Industries
40 Guardian Industries	402 PPG Industries	955 AFG Industries
41 Guardian Industries	449 LOF Glass	968 Guardian Industries
54 Hamilton Glass	454 PPG Industries	969 Guardian Industries
57 Hamilton Glass	455 PPG Industries	970 Guardian Industries
60 PPG Industries	458 Guardian Industries	971 Guardian Industries
61 PPG Industries	464 LOF Glass	979 Tempglass Eastern
64 PPG Industries	471 Guardian Industries	981 Tempglass Eastern
70 PPG Industries	474 PPG Industries	982 Tempglass Eastern
89 AFG Industries	475 PPG Industries	986 Temp-Tech
90 AFG Industries	482 Tuf-flex Glass	999 Anglass Industries
93 Virginia Glass	483 Tuf-flex Glass	1000 Anglass Industries
94 Virginia Glass	487 Guardian Industries	1002 Downey Glass
95 Virginia Glass	514 Downey Glass	1004 Guardian Industries
102 PPG Industries	515 Downey Glass	1034 Shaw Glass
118 Flex-O-Glass	516 Downey Glass	1035 Shaw Glass
131 Guardian Industries	520 Anglass Industries	1036 Shaw Glass
137 Texas Tempered	544 LOF Glass	1037 Shaw Glass
150 LOF Glass	545 LOF Glass	1039 Tempglass
151 LOF Glass	562 Ohio Plate Glass	1041 Ardco
185 Ohio Plate Glass	586 Chamberlain	1042 Ardco
186 Ohio Plate Glass	587 AFG Industries	1044 Tempglass Eastern
188 Ohio Plate Glass	592 Tempglass	1045 Tempglass Southern
194 PPG Industries	593 Tempglass	1046 Tempglass Southern
195 PPG Industries	594 Tempglass	1049 Ardco
209 PPG Industries Canada	595 Templgass	1050 Ohio Plate Glass
219 PPG Industries	598 AFG Industries	1058 Tempglass Eastern
220 AFG Industries	603 Downey Glass	1059 Tempglass Eastern
249 PPG Industries	604 Downey Glass	1062 Hehr International
250 PPG Industries	605 Downey Glass	1067 PPG Industries
251 PPG Industries Canada	606 Downey Glass	1071 Shaw Glass
295 PPG Industries	607 Downey Glass	1073 Spectrum Glass
300 Guardian Industries	608 Downey Glass	1074 Spectrum Glass
320 Tempered Glass, Inc.	609 Downey Glass	1075 Spectrum Glass
321 Tempered Glass, Inc.	630 Downey Glass	1076 Spectrum Glass
322 Tempered Glass, Inc.	631 Guardian Industries	1077 Spectrum Glass
323 Tempered Glass, Inc.	633 Guardian Industries	1078 Spectrum Glass
328 Ohio Plate Glass	638 ACI Glass Products	1079 Spectrum Glass
337 Tempered Glass	639 ACI Glass Products	1107 PPG Industries
338 Tempered Glass	640 ACI Glass Products	1108 PPG Industries
341 Ford Motor Company	654 Ohio Plate Glass	1110 PPG Industries
342 Ford Motor Company	662 Guardian Industries	1111 PPG Industries
348 Tempered Glass	669 Texas Tempered	1112 PPG Industries
350 LOF Glass	675 PPG Industries	1113 PPG Industries
351 LOF Glass	676 PPG Industries	1118 Tempered Glass
352 LOF Glass	678 Downey Glass	1120 PPG Industries Canada
373 LOF Glass	709 Falconer Glass	1123 Fulton Glass
374 LOF Glass	711 Falconer Glass	1124 Fulton Glass
375 LOF Glass	712 Falconer Glass	1125 Fulton Glass
382 PPG Industries	921 Flex-Temp	1126 Fulton Glass
390 Flex-Temp	927 PPG Industries	1127 Fulton Glass

SGCC		SGCC		SGCC	
NO.		NO.		NO.	
1139	AFG Industries	1299	Shaw Glass	1381	Glasstemp
1143	AFG Industries	1301	Guardian Industries	1382	Glasstemp
1157	ACI Glass Products	1303	Guardian Industries	1383	Glasstemp
1159	Texas Tempered	1304	Guardian Industries	1384	Glasstemp
1161	Guardian Industries	1308	Traco	1385	Hamilton Glass
1165	Colonial	1310	Traco	1386	Hamilton Glass
1166	Colonial	1311	Traco	1387	Hamilton Glass
1167	Colonial	1312	Traco	1388	Ohio Plate Glass
1173	Lear Siegler	1313	Traco	1389	Glass Tempering Service
1180	General Glass	1314	Guardian Industries	1390	AFG Industries
1181	General Glass	1315	Falconer-Lewistown	1393	Saint Gobain
1182	General Glass	1316	Falconer-Lewistown	1394	Gateway Industries
1192	Texas Tempered	1318	Guardian Industries	1395	Tempered Glass
1200	Hamilton Glass	1321	Flex-Temp	1397	Empire Glass
1201	Gemtron	1323	Ardco	1398	Empire Glass
1204	Tuf-flex Glass	1324	Falconer Glass	1399	Empire Glass
1216	Guardian Industries	1325	PPG Industries	1400	Empire Glass
1219	Tempglass Southern	1326	Fulton Glass	1401	Empire Glass
1221	PPG Industries	1328	Tempered Glass	1402	Empire Glass
1225	PPG Industries	1330	Falconer Glass	1403	Viracon
1226	ACI Glass Products	1332	Gemtron	1404	Viracon
1230	Southern Wholesale	1334	Gemtron	1413	Hankuk Glass
1231	Southern Wholesale	1336	PPG Industries	1414	AFG Industries
1232	Southern Wholesale	1338	Tempglass Eastern	1415	Southern Wholesale
1235	Guardian Industries	1339	Falconer Glass	1421	Hordis Bros.
1236	Virginia Glass	1340	Glass Tempering Service	1422	Gemtron
1238	Glass Tempering Service	1341	Colonial	1424	Gemtron
1241	Tuf-flex Glass	1343	Lear Siegler	1426	Gemtron
1247	PPG Industries Canada	1344	Howe-Martz	1428	Southern Wholesale
1248	Guardian Industries	1345	Accutemp Glass	1429	0 & W Glass
1249	Guardian Industries	1346	Asahi Glass	1430	O & W Glass
1250	Guardian Industries	1347	Dlubak Studios	1431	Guardian Industries
1251	Guardian Industries	1348	Dlubak Studios	1432	Guardian Industries
1252	Guardian Industries	1349	Dlubak Studios	1433	Guardian Industries
1253	Guardian Industries	1350	Dlubak Studios	1434	Guardian Industries
1259	Tempglass Eastern	1352	Falconer Glass	1435	Guardian Industries
	Howe-Martz	1355	Gateway Industries	1436	AFG Industries
1266	Howe-Martz	1356	Gateway Industries	1437	Flex-Temp., Inc.
1268	Howe-Martz	1357	Gateway Industries	1439	Flex-Temp., Inc.
1269	Howe-Martz	1358	Gateway Industries	2000	Gemtron
1270	Howe-Martz	1359	Gateway Industries		
1275	Virginia Glass	1360	Lear Siegler		
1277	Advanced Coating Tech.	1361	Sunglas Products		
1280	Falconer Glass	1362	Sunglas Products		
1281	Ohio Plate Glass	1363	Sunglas Products		
1282	Falconer-Lewistown	1369	Elgin Precision Glass		
1284	Falconer-Lewistown	1370	Elgin Precision Glass		
1286	Ohio Plate Glass	1371	Elgin Precision Glass		•
1287	Ohio Plate Glass	1372	Elgin Precision Glass		
1292	San Jacinto	1374	Sunglas Products		
1293	San Jacinto	1376	Chamberlain		
1294	San Jacinto	1377	Chamberlain		
1295	San Jacinto	1378	Chamberlain		
1296	San Jacinto	1379	Hordis Brothers		
1298	PPG Industries	1380	Hordis Brothers		

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
ACI GLASS	PRODUCTS,	INC.: SANT	A FE SPRING	S. CA	DOWNEY G	LASS CO IN	IC.: DOWNI	EY, CA - CON	T'D.
1157	3/16	(5.0)	TTG	U	604	1/8	(3.2)	TPG(S)	U
638	1/4	(6.0)	TTG	Ü	605	1/8	(3.2)	TPG(M)	Ü
639	3/8	(10.0)	TTG	ŭ	607	3/16	(4.8)	TPG(S)	Ü
	1/2	(12.0)	TTG	Ü	608	7/32	(5.6)	TPG(S)	Ü
640		(3.2)			000	1/32	(3.6)	174(3)	U
1226	1/8	(3.2)	TPG(S)	U	DOWNEY GI	ASS CO., IN	C.; LOS AN	IGELES, CA	
AFG INDUST	TRIES, INC.;	BRDIGEPOR	T, WV		630	3/16	(5.0)	TTG	υ
1436	1/8	(3.2)	TTG	U	514	1/4	(6.0)	TTG	U
					515	3/8	(10.0)	TTG	U
AFG INDUST	TRIES, INC.;	GREENLAND), TN		516	1/2	(12.0)	TTG	U
598	1/8	(3.0)	TTG	U	935	3/16	(4.8)	TPG(S)	U
955	5/32	(4.0)	TTG	U	678	7/32	(5.6)	TPG(S)	U
220	3/16	(5.0)	TTG	U	l				
89	1/4	(6.0)	TTG	U	ELGIN PREC	ISION GLASS	S CO., INC.;	ELGIN, IL	
90	3/8	(10.0)	TTG	U	1369	1/8	(3.0)	TTG	U
587	1/8	(3.2)	TPG(S)	U	1370	5/32	(4.0)	TTG	U
1139	3/16	(4.8)	TPG(S)	Ū	1371	3/16	(5.0)	TTG	U
	٠, .٠	(,	(0)	-	1372	1/4	(6.0)	TTG	Ū
AFG INDUST	TRIES, INC.;	KINGSPORT,	TN			-, -	(,		-
1390	1/8	(3.0)	TTG	U	EMPIRE GLA	SS, INC.; BR	ONX, NY		
949	5/32	(4.0)	TTG	U	1397	1/8	(3.0)	TTG	U
28	3/16	(5.0)	TTG	U	1398	3/16	(5.0)	TTG	U
24	1/4	(6.0)	TTG	U	1399	1/4	(6.0)	TTG	U
1414	1/8	(3.2)	TPG(S)	U	1400	3/8	(10.0)	TTG	U
1143	3/16	(4.8)	TPG(S)	U	1401	1/2	(12.0)	TTG	U
	-,			_	1402	3/4	(19.0)	TTG	U
ADVANCED	COATING TE	CHNOLOGY	FRANKLIN,	TN		·			
1277	1/4	(6.0)	TTG	U	FALCONER-I	LEWISTOWN	, INC.; LEW	ISTOWN, PA	
					1282	7/32	(5.5)	LG(0.015)	U
ANGLASS IN	IDUSTRIES, I	INC.; SAN F	ERNANDO, C	A	1284	1/4	(6.0)	LG(0.015)	U
520	1/8	(3.0)	TTG	U	1315	3/8	(10.0)	LG(0.015)	U
999	3/16	(5.0)	TTG	U	1316	1/2	(12.0)	LG(0.015)	
1000	1/4	(6.0)	TTG	Ü		., –	,		
.000	., .	(0.0)			FALCONER G	SLASS INDUS	STRIES, INC	:; FALCONER,	, NY
ARDCO, INC.	; CHICAGO,	IL			1339	5/32	(4.0)	TTG	U
1041	1/8	(3.0)	TTG	U	1352	3/16	(5.0)	TTG	U
1323	5/32	(4.0)	TTG	U	709	1/4	(6.0)	TTG	U
1042	3/16	(5.0)	TTG	U	1280	3/8	(10.0)	TTG	U
1049	1/4	(6.0)	TTG	Ü	711	1/2	(12.0)	TTG	Ü
1043	17 4	(0.0)		J	712	3/4	(19.0)	TTG	ū
SAID IAHD	S CO., LTD.;	TOKYO JAI	PΔN		1330	3/16	(4.0)	TPG(S)	Ü
1346	3/8	(10.0)	TTG	U	1000	37 13	(4.0)	11 4(3)	J
1340	3/8	(10.0)	110	J	FLEX-O-GLA	SS INC - DD	CON II		
HAMBERLA	IN MANUFA	CTURING CO	DRPORATION	; MALVERN, AR	2).125 inch	U
586	1/8	(3.0)	TTG	U	2	ooth extr	_		~
1376	5/32	(4.0)	TTG	Ū	[,		
1377	3/16	(5.0)	TTG	ű	FLEX-TEMP,	INC.: IRVING	i. TX		
1378	1/4	(6.0)	TTG	Ü	390	1/4	(6.0)	TTG	U
,010	• / -	(0.0)	,, ,	•	391	3/8	(10.0)	TTG	U
OLONIAL M	IIRROR AND	GLASS COR	SB - BBUUKI A	(N. NY	392	1/2	(12.0)	TTG	Ü
1165	1/4	(6.0)	TTG	U	1321	3/16	(4.8)	TPG(S)	U
	3/8	(10.0)	TTG	U		3/16	(4.8)	TTG	Ü
1166			TTG	Ü	1437			TPG(S)	U
1167	1/2	(12.0)	TTG	U	1439	7/32	(5.5)	154(5)	U
1341	3/4	(19.0)	114	U .	FORD MOTO	R COMPANY	DEARROR	N. MI	
LUBAK STI	JDIOS, INC.;	FREEPORT.	PA		341	1/8	(3.0)	TTG	U
1348	3/16	(5.0)	LG(0.030)	34" by 48"	396	5/32	(4.0)	TTG	Ü
1347	1/4	(6.0)	LG(0.030)	-	342	3/16	(5.0)	TTG	Ü
	3/8	(10.0)	LG(0.030)		342 397	1/4	(6.0)	TTG	U
1349			LG(0.030)		J9/	1/4	(3.0)	114	U
1350	1/2	(12.0)	LG(U.U3U)	U	FULTON GLA	SS INDUSTR	NES INC -	RED OAK, GA	
OWNEY GI	ASS CO., INC	C.: DOWNEY	CA		1123	5/32	(4.0)	TTG	U
603	1/8	(3.0)	TTG	U	1124	3/16	(5.0)	TTG	ŭ
1002	5/32	(4.0)	TTG	Ü	1125	1/4	(6.0)	TTG	Ü
606	3/16	(5.0)	TTG	Ü	1	•,, •	. 5.5)		•
	•		TTG	Ü					
609	1/4	(6.0)	1 1 13	Ü					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
FULTON GLA	ASS INDUS	TRIES, INC.;	RED OAK, G	ia – cont'd.	GUARDIAN	INDUSTRIES	CORP., KIN	IGSBURG, CA	
1126	3/8	(10.0)	TTG	U	968	1/8	(3.0)	TTG	U
1127	1/2	(12.0)	TTG	U	969	5/32	(4.0)	TTG	U
1326	3/16	(4.8)	TPG(S)	Ú	970	3/16	(5.0)	TTG	Ū
	-,	(/		_	971	1/4	(6.0)	TTG	Ü
GATEWAY IN	IDUSTRIES	- ROGERS A	ΔR		1303	1/8	(3.2)	TPG(S)	Ü
	1/8			1.1		•	•	• •	
1355		(3.0)	TTG	U	1301	5/32	(4.0)	TPG(M)	U
1356	3/16	(5.0)	TTG	U	1304	3/16	(4.8)	TPG(S)	U
1357	1/4	(6.0)	TTG	Ų					
1358	1/8	(3.2)	TPG(S)	U	GUARDIAN	INDUSTRIES	CORP.; UP	PER SANDUSKY	r, OH
1359	5/32	(4.0)	TPG(S)	U	458	7/32	(5.5)	LTG(0.030)	U
1394	3/16	(4.8)	TPG(S)	U	487	1/4	(6.0)	LTG(0.030)	
GEMTRON C	ORPORATION	ON: SWEET	WATER.NY		GUARDIAN	INDUSTRIES	CORP · WE	RSTER MA	
1422	1/8	(3.0)	TPG	U	300	1/8	(3.0)	TTG	U
1424	5/32	(4.0)	TPG	U	1216	3/16	(5.0)	TTG	
1426	. 169				•				U
		(1.5)	TTG	U	662	1/4	(6.0)	TTG	U
2000	5/32	(4.0)	TPG	U	471	3/8	(10.0)	TTG	U
CENTRON O	00000				1235	1/2	(12.0)	TTG	U
GEMTRON C	1/8	ON; SWEET	WATER,TN TTG	U	HAMILTON I	CI ACC DDAD	HICTO INC	; VINCENNES,	18.1
1332	5/32	(4.0)			4				
			TTG	U _e	54	1/8	(3.0)	TTG	U
1201	3/16	(5.0)	TTG	U	1385	5/32	(4.0)	TTG	U
OFF. T					1200	3/16	(5.0)	TTG	U
GENERAL GL					57	1/4	(6.0)	TTG	U
1180	5/32	(4.0)	TTG	U	1386	5/32	(4.0)	TPG(S)	U
1181	3/16	(5.0)	TTG	U	1387	3/16	(4.8)	TPG(S)	U
1182	1/4	(6.0)	TTG	U					
GLASS TEMP	PERING SER	RVICE, INC.;	DETROIT, M	I	HANKUK GL	ASS INDUST 1/4	RY COMPAI (6.0)	NY, LTD.; SEOU	L, KOREA
1389	1/8	(3.0)	TTG	30" by 76"		•	,		
1238	1/4	(6.0)	TTG	U	HEHR INTER	NATIONAL. I	NC: CHESA	ANING. MI	
1340	3/16	(5.0)	TPG	Ü	1062	1/8	(3.0)		32" by 60"
GLASSTEMP,	INC: BEN	SENVILLE II			HORDIS BRO	THERE INC	· WADDEN	TON MO	
1381	3/16	(5.0)	TTG	U	1379	1/8	(3.0)	TTG	U
1382	1/4	(6.0)	TTG	Ü	1				
1383	3/8				1380	5/32	(4.0)	TTG	U
		(10.0)	TTG	U	1421	3/16	(5.0)	TTG	U
1384	1/2	(12.0)	TTG	U					
GUARDIAN II	UDUCTOILE	. ALIDLIDAL	181		HOWE-MAR		-	-	
					1265	5/32	(4.0)	TTG	U
1431	1/8	(3.0)	TTG	U	1266	3/16	(5.0)	TTG	U
1432	5/32	(4.0)	TTG	U	1268	1/4	(6.0)	TTG	U
1433	3/16	(4.8)	TTG	U	1269	3/8	(10.0)	TTG	U
1434	7/32	(5.6)	TTG	U	1270	1/2	(12.0)	TTG	U
1435	1/4	(6.0)	TTG	U	1344	3/16	(4.8)	TPG(S)	U
GUARDIAN IN	VD(ISTRIES	CORD · CAI	RIFTON MI		LOF GLASS;	I Al IDINIDI IDA	a NC		
933	1/8	(3.0)		1.1			-	TT0	
			TTG	U	350	1/8	(3.0)	TTG	U
934	5/32	(4.0)	TTG	U	545	5/32	(4.0)	TTG	U
631	3/16	(5.0)	TTG	U	351	3/16	(5.0)	TTG	U
131	1/4	(6.0)	TTG	U	352	1/4	(6.0)	TTG	u
					373	5/16	(8.0)	TTG	U
GUARDIAN IN	NDUSTRIES	CORP., COI	RSICANA, TX		374	3/8	(10.0)	TTG	Ū
1248	1/8	(3.0)	TTG	U	375	1/2	(12.0)	TTG	Ü
1249	5/32	(4.0)	TTG	ū	1	.,	(.2.0)		-
1250	3/16	(5.0)	TTG	Ü	LEAR-SIEGLE	R INC. WIC	HITA VC		
1251	1/4	(6.0)	TTG	U	1360	3/16		1 TO (0, 000)	12
1251	• .						(5.0)	LTG(0.030)	U
	5/16	(8.0)	TTG	U	1173	7/32	(5.5)	LTG(0.015)	U
1253 1314	3/8 5/32	(10.0)	TTG	U	1343	3/16	(5.0)	LPG(0.030)(S) U
1314	5/32	(4.0)	TPG(S)	U	NASHVILLE	remperen c	LASS CORE	P., NASHVILLE,	TN
GUARDIAN IN		CORP., FOR	RT LAUDERD	ALE, FL	1416	1/8	(3.0)	TTG	U
1161	1/8	(3.0)	TTG	Ū	1417	1/4	(6.0)	TTG	Ū
633	3/16	(5.0)	TTG	ū	1419	3/16	(5.0)	TTG	Ü
40	1/4	(6.0)	TTG	Ü	1	5, 15	. 5.5)	, , <u>u</u>	J
41	3/8	(10.0)	TTG	U					
1004	1/2	(12.0)	TTG						
1318	3/16			U					
1310	3/10	(4.8)	TPG(S)	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
OHIO PLATE	GLASS CO	MPANY: JE	FFERSON, TX		PPG IND. C	ANADA, LTD	; OWEN S	DUND, ONTAF	RIO, CANADA
1281	1/8	(3.0)	TTG	U	251	1/8	(3.0)	TTG	U
1286	3/16	(5.0)	TTG	U	1120	5/32	(4.0)	TTG	U
1287	1/4	(6.0)	TTG	Ū	209	3/16	(5.0)	TTG	U
1388	1/8	(3.2)	TPG(M)	Ü	1247	1/4	(6.0)	TTG	Ü
1300	170	(3.2)	77 G(M)	J	,	·			J
		•	WISBURG, OH		1	AIN; GENT, P			
1050	1/8	(3.0)	TTG	U	1393	1/4	(3.0)	TTG	U
185	3/16	(5.0)	TTG	U					
186	1/4	(6.0)	TTG	U	-			IOUSTON, TX	
654	1/8	(3.2)	TPG(M)	U	1292	1/8	(3.0)	TTG	U
188	3/16	(4.8)	TPG(S)	U	1293	3/16	(5.0)	TTG	U
328	3/16	(4.8)	TPG(D)	U	1294	1/4	(6.0)	TTG	U
562	7/32	(5.6)	TPG(S)	U	1295	3/8	(10.0)	TTG	U
					1296	1/2	(12.0)	TTG	U
· & W GLAS 1429	S; EVERETT 1/8	f , WA (3.0)	TTG	U	SHAW GLAS	S COMPAN	INC - SOL	JTH EASTON,	MΔ
		1 :	TTG	U	1034	3/16	(5.0)	TTG	U
1430	2/16	(5.0)	110	U	1035	1/4	(6.0)	TTG	Ü
	DIFC 1810 (34011015	7.			3/8		TTG	Ü
	RIES, INC.; (1036	•	(10.0)		
250	1/8	(3.0)	TTG	U	1037	1/2	(12.0)	TTG	U
675	5/32	(4.0)	TTG	U	1299	3/16	(4.8)	TPG(S)	U
249	3/16	(5.0)	TTG	U	1071	7/32	(5.6)	TPG(S)	U
382	1/4	(6.0)	TTG	U	COLITHERN	WHO! ESA! E	CIASS IN	IC.; MARIETTA	A GA
× 1810110T1	NEC 1810 . C	`ncc= 1815	OU		1	3/16	(5.0)	TTG	U
	RIES, INC.; C			4.6	1230	1/4			Ü
60	1/8	(3.0)	TTG	U	1231	•	(6.0)	TTG	
			-		1232	3/8	(10.0)	TTG	U
	RIES, INC.; E				1405	1/8	(3.0)	TTG	U
400	3/16	(5.0)	TTG	U	1415	3/16	(5.0)	TTG	U
402	1/4	(6.0)	TTG	U	1406	1/2	(12.0)	TTG	U
1107	3/8	(10.0)	TTG	U	l				
1108	1/2	(12.0)	TTG	U	SPECTRUM	GLASS COM	Pany; Clin	ITON, NC	
1225	3/4	(19.0)	TTG	U	1073	3/16	(5.0)	TTG	U
					1074	1/4	(6.0)	TTG	U
PG INDUSTR	RIES. INC.: F	ORD CITY.	PA		1075	5/16	(8.0)	TTG	U
61	3/16	(5.0)	TTG	U	1076	3/8	(10.0)	TTG	U
70	1/4	(6.0)	TTG	ū	1077	1/2	(12.0)	TTG	Ū
, 0	1,7 7	(0.0)		•	1078	5/8	(16.0)	TTG	ű
G INDUSTE	RIES. INC.: F	RESNO. CA			1078	3/4	(19.0)	TTG	Ü
295	1/8	(3.0)	TTG	U		·			
676	5/32	(4.0)	TTG	U	SUNGLAS PE	RODUCTS, IA	IC.; CLAREI	MORE, OK	
64	3/16	(5.0)	TTG	U	1361	5/32	(4.0)	TTG	U
	-				1362	3/16	(5.0)	TTG	U
G INDUSTR	RIES. INC.: H	UNT VALL	EY, MD		1363	1/4	(6.0)	TTG	Ū
454	3/16	(5.0)	TTG	U	1374	3/8	(10.0)	TTG	Ü
455	1/4	(6.0)	TTG	Ü		-, -	, ,		-
474	3/8	(10.0)	TTG	ŭ	TEMP-TECH	INDUSTRIES	. INC.: CHI	CAGO. II	
	1/2	(12.0)	TTG	Ü	986	1/4	(6.0)	TTG	U
475				Ü	300	1/ →	. 0.0)	110	J
952 325	3/4 3/16	(19.0) (4.8)	TTG TPG(S)	U	TEMPERED	GLASS, INC.,	ATLANTA,	GA	
			,		320	3/16	(5.0)	TTG	U
G INDUSTR	HES, INC.; M	•			321	1/4	(6.0)	TTG	U
195	3/16	(5.0)	TTG	U	322	3/8	(10.0)	TTG	U
194	1/4	(6.0)	TTG	U	323	1/2	(12.0)	TTG	U
067	3/8	(10.0)	TTG	U					
336		(12.0)	TTG	Ū	TEMPERED G	LASS CORP	ORATION:	ΓΑΜΡΑ, FL	
298	3/16	(4.8)	TPG(S)	Ü	1395	3/16	(5.0)	TTG	U
219	7/32	(5.6)	TPG(S)	Ü	337	1/4	(6.0)	TTG	Ü
Z 13	1/32	(3.6)	· F G (3)	٠	348	3/8	(10.0)	TTG	Ü
C INDITETO	IEC INC. 14	//CHITA EA	IIC TV		338	1/2	(10.0)	TTG	U
	IES, INC.; W			1.1	i e				
110		(3.0)	TTG	U	1328	3/16	(4.8)	TPG(S)	U
111		(4.0)	TTG	U	1118	7/32	(5.6)	TPG(S)	U
112		(5.0)	TTG	U					
1113	1/4	(6.0)	TTG	U					

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	
TEMPERED (GLASS INT	L., INC.; UNI	ON CITY, CA		
482	3/8	(10.0)	TTG	U	CERTIFIED PRODUCTS
483	1/2	(12.0)	TTG	Ū	KEY
1241	3/16	(5.0)	TTG	Ü	1121
1204	1/4	(6.0)	TPG	Ü	
1204	174	(0.0)	IFG	U	TTG = TEMPERED TRANSPARENT GLASS
TEMPGLASS					
1039	1/8	(3.0)	TTG	U	
592	3/16	(5.0)	TTG	U	TPG = TEMPERED PATTERN GLASS
594	3/8	(10.0)	TTG	U	
595	1/2	(12.0)	TTG	u	
1420	1/4	(6.0)	TTG	U	LTG = LAMINATED TRANSPARENT GLASS
TEMPGLASS	FASTERN	INC - NORC	ROSS GA		
979	1/8	(3.0)	TTG	U	LDC LAMBIATED DATTEDNI CLACC
1259	5/32	(4.0)	TTG	U	LPG = LAMINATED PATTERN GLASS
	•				
981	3/16	(5.0)	TTG	U	
982	1/4	(6.0)	TTG	U	(S) = SHALLOW PATTERN
1058	3/8	(10.0)	TTG	Ü	
1059	1/2	(12.0)	TTG	U	
1338	3/16	(4.8)	TPG(S)	U	(M) = MEDIUM PATTERN
TEMPGLASS	SOUTHER	N. INC.: GRA	ND PRAIRIE.	TX	
1219	3/16	(5.0)	TTG	U	(D) = DEEP PATTERN
1044	1/4	(6.0)	TTG	Ü	(D) - DEEP PATTERIN
1045	3/8	(10.0)	TTG	Ü	
1046	1/2	(12.0)	TTG	Ü	U = UNLIMITED SIZE
					O WEINTED SIZE
TEXAS TEM			•	·	
1192	3/16	(5.0)	TTG	U	
137	1/4	(6.0)	TTG	U	
669	1/2	(12.0)	TTG	U	
1408	3/8	(10.0)	TTG	U	
TRACO (THE	REE RIVERS	ALUM. CO.I	: WARREND	ALE. PA	
1308	1/8	(3.0)	TTG	U	
1310	3/16	(5.0)	TTG	Ü	
1311	1/4	(6.0)	TTG	Ü	
1312	3/8	(10.0)	TTG	Ü	
1313	1/2	(10.0)	TTG	U	
1313	1/2	(12.0)	TIG	Ŭ 	
VIDRIERIAS				1	
1331	5/32	(4.0)	TPG	U	
1407	1/8	(3.0)	TPG	U	
VIRACON, IN	IC - OWATO	NNA MN			
1403	3/16	(5.0)	TTG	U	
1403	1/4	(6.0)	TTG	Ü	
	·				
VIRGINIA GL					
1236	5/32	(4.0)	TTG	U	
12	3/16	(5.0)	TTG	U	
14	1/4	(6.0)	TTG	U	
93	3/8	(10.0)	TTG	U	
94	1/2	(12.0)	TTG	U .	
95	3/4	(19.0)	TTG	U	
1275	3/16	(4.8)	TPG(S)	U	
				•	

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED TRANSPARENT GLASS 1/8 inch tempered transparent glass		
AFG Industries, Inc.; Bridgeport, WV AFG Industries, Inc.; Greenland, TN AFG Industries, Inc.; Kingsport, TN	1436 598 1390	U U U
Anglass Industries, Inc.; San Fernando, CA Ardco, Inc.; Chicago, IL Chamberlain Manufacturing Corp.; Malvern, AR	520 1041 586	U U U
Downey Glass Company, Inc.; Downey, CA Elgin Precision Glass Co., Inc.; Elgin, IL Empire Glass, Inc.; Bronx, NY	603 1369 1397	U U U
Ford Motor Company; Dearborn, MI Gateway Industries; Rogers, AR	341 1355 1334	U U
Gemtron Corp.; Sweetwater, TN Glass Tempering Service, Inc.; Detroit, MI Guardian Industries Corp.; Carleton, MI	1389 933	32" by 76" U
Guardian Industries Corp.; Corsicana, TX Guardian Industries Corp.; Fort Lauderdale, FL Guardian Industries Corp.; Kingsburg, CA	1248 1161 968	U U U
Guardian Industries Corp.; Webster, MA Hamilton Glass Products, Inc.; Vincennes, IN Hehr International, Inc.; Chesaning, MI	300 54 1062	U U 32" by 60"
Hordis Brothers, Inc.; Warrenton, MO LOF Glass; Laurinburg, NC Nashville Tempered Glass Corp.; Nashville, TN	1379 350 1416	U U
Ohio Plate Glass Company; Jefferson, TX Ohio Plate Glass Company; Lewisburg, OH PPG Industries, Inc.; Carlisle, PA	1281 1050 250	U U
PPG Industries, Inc.; Crestline, OH PPG Industries, Inc.; Fresno, CA PPG Industries, Inc.; Wichita Falls, TX	60 295 1110	U U U
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada San Jacinto Glass Company; Houston, TX Southern Wholesale Glass, Inc.; Marietta, GA	251 1292 1405	U U U
Tempglass, Inc.; Perrysburg, OH Tempglass Eastern, Inc.; Norcross, GA Traco (Three Rivers Aluminum Company); Warrendale, PA	1039 979 1308	U U
5/32 inch tempered transparent glass		
AFG Industries, Inc.; Greenland, TN AFG Industries, Inc.; Kingsport, TN Ardco, Inc.; Chicago, IL	955 949 1323	u u u
Chamberlain Manufacturing Corp.; Malvern, AR Downey Glass Company, Inc.; Downey, PA Elgin Precision Glass Co., Inc.; Elgin, IL	1376 1002 1370	U U U
Falconer Glass Industries, Inc.; Falconer, NY Flex-Temp., Irving, TX Ford Motor Company; Dearborn, MI	1339 1437 396	U U U
Fulton Glass Industries, Inc.; Red Oak, GA Gemtron Corp.; Sweetwater, TN General Glass Corporation; Denver, CO	1123 1332 1180	U U
Guardian Industries Corp.; Carleton, MI Guardian Industries Corp.; Corsicana, TX Guardian Industries Corp.; Kingsburg, CA	934 1249 969	U U U
Hamilton Glass Products, Inc.; Vincennes, IN Hordis Brothers, Inc.; Warrenton, MO	1385 1380 1265	U U
Howe-Martz Glass Co.; Detroit, MI LOF Glass; Laurinburg, NC PPG Industries, Inc.; Carlisle, PA	545 675	U
PPG Industries, Inc.; Fresno, CA PPG Industries, Inc.; Wichita Falls, TX PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	676 1111 1120	U U
Sunglas Products, Inc.; Claremore, OK Tempglass Eastern, Inc.; Norcross, GA Virginia Glass Products Corp.; Martinsville, VA	1361 1259 1236	U U U

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED TRANSPARENT GLASS		
3/16 inch tempered transparent glass		
ACT Clara Braduata Tag - Canta Fa Caninas - CA	4457	
ACI Glass Products, Inc.; Santa Fe Springs, CA AFG Industries, Inc.; Greenland, TN	1157 220	บ บ
AFG Industries, Inc.; Greentand, IN	28	U
Anglass Industries, Inc.; San Fernando, CA	999	Ü
Ardco, Inc.; Chichago, IL	1042	Ü
Chamberlain Manufacturing Corporation; Malvern, AR	1377	Ü
Downey Glass Company, Inc.; Downey, CA	606	Ü
Downey Glass Company, Inc.; Los Angeles, CA	630	Ü
Elgin Precision Glass Company, Inc.; Elgin, IL	1371	Ü
Empire Glass, Inc.; Bronx, NY	1398	Ū
Falconer Glass Industries, Inc.; Falconer, NY	1352	Ū
Ford Motor Company; Dearborn, MI	342	U
Fulton Glass Industries, Inc.; Red Oak, GA	1124	U
Gateway Industries; Rogers, AR	1356	U
Gemtron Corporation; Sweetwater, TN	1201	U
General Glass Corporation; Denver, CO	1181	U
Glasstemp, Inc.; Bensenville, IL	1381	U
Guardian Industries Corp.; Carleton, MI	631	32" by 60"
Guardian Industries Corp.; Corsicana, TX	1250	U
Guardian Industries Corp.; Fort Lauderdale, FL	633	U
Guardian Industries Corp.; Kingsburg, CA	970	U
Guardian Industries Corp.; Webster, MA	1216	U
Hamilton Glass Products, Inc.; Vincennes, IN	1200	U
Howe-Martz Glass Company; Detroit, MI	1266	U
LOF Glass; Laurinburg, NC	351	· U
Nashville Tempered Glass Corp.; Nashville, TN	1419	U
Ohio Plate Glass Company; Jefferson, TX	1286	U
Ohio Plate Glass Company; Lewisburg, OH	185	U
PPG Industries, Inc.; Carlisle, PA	249	U
PPG Industries, Inc.; Dallas, TX	400	U
PPG Industries, Inc.; Ford City, PA	61	U
PPG Industries, Inc.; Fresno, CA	64	U
PPG Industries, Inc.; Hunt Valley, MD	454	U
PPG Industries, Inc.; Miami, FL	195	U
PPG Industries, Inc.; Wichita Falls, TX	1112	U
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	209 1293	U
San Jacinto Glass Company; Houston, TX	1034	U
Shaw Glass Company, Inc.; South Easton, MA	1415	Ü
Southern Wholesale Glass, Inc.; Marietta, GA Spectrum Glass Company; Clinton, NC	1073	Ü
Sunglas Products, Inc.; Claremore, OK	1362	U
Tempered Glass, Inc.; Atlanta, GA	320	ŭ
Tempered Glass Corporation; Tampa, FL	1395	Ü
Tempglass, Inc.; Perrysburg, OH	592	Ü
Tempglass Eastern, Inc.; Norcross, GA	981	Ü
Tempglass Southern, Inc.; Grand Prairie, TX	1219	U
Texas Tempered Glass Company; Houston, TX	1192	U
Traco (Three Rivers Aluminum Company); Warrendale, PA	1310	U
Tuf-flex Glass; Union City, CA	1241	U
Viracon, Inc.; Owatonna, MN	1403	U
Virginia Glass Products Corporation; Martinsville, VA	12	U
1/4 nch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, CA	638	
AFG Industries, Inc.; Greenland, TN	89	U
AFG Industries, Inc.; Kingsport, TN	24	U
Advance Coating Technology, Inc.; Franklin, TN	1277	U
Anglass Industries, Inc.; San Fernando. CA	1000	U

	SGCC NO.	MAX. SIZI CERTIFIEI
TEMPERED TRANSPARENT GLASS		
/4 inch tempered transparent glass - continued		
Ardco, Inc.; Chicago, IL	1049	U
Chamberlain Manufacturing Corporation; Malvern, AR	1378	Ü
Colonial Mirror and Glass Corporation; Brooklyn, NY	1165	U
Downey Glass Company, Inc.; Downey, CA	609	U
Downey Glass Company, Inc.; Los Angeles, CA	514	U
Elgin Precision Glass Company, Inc.; Elgin, IL	1372	U
Empire Glass, Inc.; Bronx, NY	1399	U
Falconer Glass Industries, Inc.; Falconer, NY	709	U
lex-Temp, Inc.; Irving, TX	390	U
Ford Motor Company; Dearborn, MI	397	U
Fulton Glass Industries, Inc.; Red Oak, GA	1125	U
Sateway Industries; Rogers, AR	1357	U
General Glass Corporation; Denver, CO	1182	U
lass Tempering Service, Inc.; Detroit, MI	1238	U
lasstemp, Inc.; Bensenville, IL	1382	U
Guardian Industries Corp.; Carleton, MI	131	U
Guardian Industries Corp.; Corsicana, TX	1251	U
uardian Industries Corp.; Fort Lauderdale, FL	40	U
uardian Industries Corp.; Kingsburg, CA	971	U
uardian Industries Corp.; Webster, MA	662	U
Hamilton Glass Products, Inc.; Vincennes, IN	57	Ū
ankuk Glass Industry Co., LTD.; Seoul, Korea	1413	Ū
lowe-Martz Glass Company; Detroit, MI	1268	ū
OF Glass; Laurinburg, NC	352	Ü
ashville Tempered Glass Corp.; Nashville, TN	1417	Ü
hio Plate Glass Company, Jefferson, TX	1287	Ü
• •	186	Ü
hio Plate Glass Company, Lewisburg, OH	382	Ü
PG Industries, Inc.; Carlisle, PA	402	Ü
PG Industries, Inc.; Dallas, TX	70	U
PG Industries, Inc.; Ford City, PA		U
PG Industries, Inc.; Hunt Valley, MD	455	U
PG Industries, Inc.; Miami, FL	194	-
PG Industries, Inc.; Wichita Falls, TX	1113	U
PG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	1247	U
aint Gobain; Gent, Netherland	1393	U
an Jacinto Glass Company; Houston, TX	1294	U
haw Glass Company, Inc.; South Easton, MA	1035	U
outhern Wholesale Glass, Inc.; Marietta, GA	1231	U
pectrum Glass Company; Clinton, NC	1074	U
unglas Products, Inc.; Claremore, OK	1363	U
emp-Tech Industries, Inc.; Chicago, IL	986	U
empered Glass, Inc.; Atlanta, GA	321	U
empered Glass Corporation; Tampa, FL	337	U
empglass Eastern, Inc.; Norcross, GA	982	U
empglass, Inc.; Perrysburg, OH	1420	U
empglass Southern, Inc.; Grand Prairie, TX	1044	U
exas Tempered Glass Company; Houston, TX	137	U
raco (Three Rivers Aluminum Company); Warrendale, PA	1311	U
uf-flex Glass; Union City, CA	1204	U
iracon, Inc.; Owatonna, MN	1404	U
irginia Glass Products Corporation; Martinsville, VA	14	U
16 inch tempered transparent glass		
uardian Industries Corp.; Corsicana, TX	1252	U
PG Industries; Inc.; Dallas, TX	1221	U
pectrum Glass Company; Clinton, NC	1075	U

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED TRANSPARENT GLASS		
3/8 inch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, CA	639	U
AFG Industries, Inc.; Greenland, TN	90	U
Asahi Glass Company, Ltd.; Tokyo, Japan	1346	U
Colonial Mirror and Glass Corporation; Brooklyn, NY	1166	U
Downey Glass Company, Inc.; Los Angeles, CA	515	U
Empire Glass, Inc.; Bronx, NY	1400	U
Falconer Glass Industries, Inc.; Falconer, NY Flex-Temp, Inc.; Irving, TX	1280	U
Fulton Glass Industries, Inc.; Red Oak, GA	391 1126	Ü
Glasstemp, Inc.; Bensenville, IL	1383	Ü
Guardian Industries Corp.; Corsicana, TX	1253	Ü
Guardian Industries Corp.; Fort Lauderdale, FL	41	Ü
Guardian Industries Corp.; Webster, MA	471	ű
Howe-Martz Glass Company, Detroit, MI	1269	Ü
LOF Glass; Laurinburg, NC	374	U
PPG Industries, Inc.; Dallas, TX	1107	U
PPG Industries, Inc.; Hunt Valley, MD	474	U
PPG Industries, Inc.; Miami, FL	1067	U
San Jacinto Glass Company; Houston, TX	1295	U
Shaw Glass Company, Inc.; South Easton, MA	1036	U
Southern Wholesale Glass, Inc.; Marietta, GA	1232	U
Spectrum Glass Company; Clinton, NC	1076	U
Sunglas Products, Inc.; Claremore, OK	1374	U
Tempered Glass, Inc.; Atlanta, GA Tempered Glass Corporation; Tampa, FL	322	U
Tempglass Eastern, Inc.; Norcross, GA	348	U
Tempglass Southern, Inc.; Northoss, GA Tempglass Southern, Inc.; Grand Prairie, TX	1058 1045	U U
Texas Tempered Glass Co.; Houston, TX	1408	U
Traco (Three Rivers Aluminum Company); Warrendale, PA	1312	Ü
Tuf-flex Glass; Union City, CA	482	Ü
Virginia Glass Products Corporation; Martinsville, VA	93	Ü
1/2 inch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, CA	640	U
Colonial Mirror and Glass Corporation; Brooklyn, NY	1167	Ū
Downey Glass Company, Inc.; Los Angeles, CA	516	U
Empire Glass, Inc.; Bronx, NY	1401	U
Falconer Glass Industries, Inc.; Falconer, NY	711	U
Flex-Temp, Inc.; Irving, TX	392	U
Fulton Glass Industries, Inc.; Red Oak, GA	1127	U
Glasstemp, Inc.; Bensenville, IL	1384	U
Guardian Industries Corp.; Fort Lauderdale, FL	1004	U
Guardian Industries Corp.; Webster, MA	1235	U
Howe-Martz Glass Company, Detroit, MI LOF Glass; Laurinburg, NC	1270	U
PPG Industries, Inc.; Dallas, TX	375 1108	U U
PPG Industries, Inc.; Hunt Valley, MD	475	U
PPG Industries, Inc.; Miami, FL	1336	Ü
San Jacinto Glass Company; Houston, TX	1296	Ü
Shaw Glass Company, Inc.; South Easton, MA	1037	Ü
Spectrum Glass Company; Clinton, NC	1077	ŭ
Southern Wholesale Glass, Inc.; Marietta, GA	1406	ū
Tempered Glass, Inc.; Atlanta, GA	323	U
Tempered Glass Corporation; Tampa, FL	338	U
Tempglass, Inc.; Perrysburg, OH	595	U
Tempglass Eastern, Inc.; Norcross, GA	1059	U
Tempglass Southern, Inc.; Grand Prairie, TX	1046	U

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED TRANSPARENT GLASS		
1/2 inch tempered transparent glass - continued		
Texas Tempered Glass Company; Houston, TX	669	U
Traco (Three Rivers Aluminum Company); Warrendale, PA	1313	U
Tuf-flex Glass; Union City, CA	483	U
Virginia Glass Products Corporation; Martinsville, VA	94	U
5/8 inch tempered transparent glass		
Falconer Glass Industries, Inc.; Falconer, NY	1324	U
Spectrum Glass Company; Clinton, NC	1078	Ü
3/4 inch tempered transparent glass		
Colonial Mirror and Glass Corporation; Brooklyn, NY	1341	U
Empire Glass, Inc.; Bronx, NY	1402	U
Falconer Glass Industries, Inc.; Falconer, NY	712	U
PPG Industries, Inc.; Dallas, TX	1225	U
PPG Industries, Inc.; Barras, TX PPG Industries, Inc.; Hunt Valley, MD	952	U
Spectrum Glass Company; Clinton, NC	1079	U
Virginia Glass Products Corporation; Martinsville, VA	95	U .
TEMPERED PATTERN GLASS 1/8 inch tempered pattern glass (shallow patterns)		
ACI Glass Products, Inc.; Santa Fe Springs, CA	1226	U
AFG Industries, Inc.; Greenland, TN	587	U
AFG Industries, Inc.; Kingsport, TN	1414	U
Downey Glass Company, Inc.; Downey, CA	604	U
Gateway Industries; Rogers, AR	1358	U
Guardian Industries Corp.; Kingsburg, CA	1303	U
1/8 inch tempered pattern glass (medium patterns)		
Downey Glass Company, Inc.; Downey, CA	605	U
Ohio Plate Glass Company; Jefferson, TX	1388	U
Ohio Plate Glass Company; Lewisburg, OH	654	U
5/32 inch tempered pattern glass (shallow patterns)		
Gateway Industries; Rogers, AR	1359	U
Gemtron Corporation; Sweetwater, TN	2000	Ü
Guardian Industries Corp.; Corsicana, TX	1314	Ü
Hamilton Glass Products, Inc.; Vincennes, IN	1386	Ū
5/32 inch tempered pattern glass (medium patterns)		
Guardian Industries Corp.; Kingsburg, CA	1301	U
3/16 inch tempered pattern glass (shallow patterns)		
AFG Industries, Inc.; Greenland, TN	1139	U
AFG Industries, Inc.; Kingsport, TN	1143	Ū
Downey Glass Company, Inc.; Downey, CA	607	Ū
Downey Glass Company, Inc.; Los Angeles, CA	935	Ü
Falconer Glass Industries, Inc.; Falconer, NY	1330	Ū
Flex-Temp, Inc.; Irving, TX	1321	Ü
Fulton Glass Industries, Inc.; Red Oak, GA	1326	U

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED PATTERN GLASS – continued 3/16 inch tempered pattern glass (shallow patterns)		
Guardian Industries Corp.; Fort Lauderdale, FL Guardian Industries Corp.; Kingsburg, CA' Hamilton Glass Products, Inc.; Vincennes, IN Howe-Martz Glass Company, Detroit, MI Ohio Plate Glass Company; Lewisburg, OH PPG Industries, Inc.; Hunt Valley, MD PPG Industries, Inc.; Miami, FL Shaw Glass Company, Inc.; South Easton, MA Tempered Glass Corporation; Tampa, FL Tempglass Eastern, Inc.; Norcross, GA Virginia Glass Products Corporation; Martinsville, VA	1318 1304 1387 1344 188 1325 1298 1299 1328 1338 1275	
3/16 inch tempered pattern glass (deep patterns)		
Gateway Industries; Rogers, AR Ohio Plate Glass Company; Lewisburg, OH 7/32 inch tempered pattern glass (shallow patterns)	1394 328	U U
Downey Glass Company, Inc.; Downey, CA Downey Glass Company, Inc.; Los Angeles, CA Flex-Temp., Inc; Irving, TX Ohio Plate Glass Company; Lewisburg, OH PPG Industries, Inc.; Miami, FL Shaw Glass Company, Inc.; South Easton, MA Tempered Glass Corporation; Tampa, FL	608 678 1439 562 219 1071 1118	υ υ υ υ υ
LAMINATED GLASS 3/16 inch laminated transparent glass		
Dlubak Studios, Inc.; Freeport, PA Lear Siegler, Inc.; Wichita, KS	1348 1360	34 by 48" U
7/32 inch laminated transparent glass		
Falconer-Lewiston, Inc.; Lewistown, PA Guardian Industries Corp.; Upper Sandusky, OH Lear Siegler, Inc.; Wichita, KS	1282 458 1173	U U U
1/4 inch laminated transparent glass		
Dlubak Studios, Inc.; Freeport, PA Falconer-Lewiston, Inc.; Lewistown, PA Guardian Industries Corp.; Upper Sandusky, OH	1347 1284 487	U U U
3/8 inch laminated transparent glass		
Dlubak Studios, Inc.; Freeport, PA Falconer-Lewiston, Inc.; Lewistown, PA	1349 1315	U U
1/2 inch laminated transparent glass		
Dlubak Studios, Inc.; Freeport, PA Falconer-Lewiston, Inc.; Lewistown, PA	1350 1316	U U
LAMINATED PATTERN GLASS 3/16 inch laminated pattern glass (shallow patterns)		
Lear Siegler, Inc.; Wichita, KS	1343	u
0.080 through 0.125 inch acrylic		
Flex-O-Glass, Inc.; Dixon, IL	118	U

PROCEDURAL GUIDE

FOREWORD

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

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

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

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

GENERAL INFORMATION

THE CERTIFICATION CONCEPT

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

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

Many state laws, municipal ordinances and building codes require that all glazing installed in certain pre-defined hazardous locations comply with the ANSI Standard.

WHO CAN BECOME A LICENSEE?

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

WHO CONDUCTS THE PROGRAM?

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

ADMINISTRATION

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

HOW CAN YOU BECOME A LICENSEE?

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

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

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After receipt of all of the above items, SGCC sends to the licensee a notice of product certification which includes a SGCC certification number. This number **must** be incorporated into the permanent label to be affixed on each piece of certified safety glazing material. The certified item will then be listed in the next published certified products directory.

HOW THE CERTIFICATION PROGRAM WORKS

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

SGCC recognized independent testing laboratories conduct all tests. All laboratories, whose test reports are utilized by this certification program, shall be approved by the SGCC certification committee. Initial or prototype tests are performed at the testing laboratory selected by the licensee. Routine evaluation samples are tested by the testing laboratory selected by the administrator.

ADMINISTRATOR AUTHORIZES CERTIFICATION

As sole judge of compliance with applicable standards, the administrator authorizes a product which has been approved to be listed in the certified products directory.

Licensees label safety glazing material within the limits of the product size tested. If 34 by 76 inches is the initial or prototype test size, then certification is extended to all sizes and the label contains a letter U, designating such unlimited size. The letter L, contained within the label, denotes that certification is limited to the width and length of the initial or prototype test size.

PRODUCTS LISTED IN CERTIFIED PRODUCTS DIRECTORY

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

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

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

COMPLIANCE SAFEGUARDS

HOW IS COMPLIANCE ASSURED

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

CHALLENGING A CERTIFIED PRODUCT

Complaints of non-compliance from any source will be investigated promptly by SGCC upon receipt of the complaint in writing along with an appropriate surety deposit. A minimum surety deposit of \$1,000 will be required for each complaint of non-compliance. The surety deposit will be assessed at the rate of \$350 per man day plus the reasonable costs of travel and the maintenance entailed in resolving such incidents. Refunds of part or all of the surety deposit will be made when applicable. All costs involved will be paid from the complainant's surety deposit, unless the investigation proves non-compliance, in which case all costs will be borne by the licensee found to be in non-compliance.

WITHDRAWAL OF CERTIFIED PRODUCT

Any product which has been certified may be voluntarily withdrawn from the certification program by the licensee at any time.

COSTS

WHAT DOES THE PROGRAM COST?

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

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

CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS

LICENSE AGREEMENT

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

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

EFFECTIVE DATE, DURATION AND TERMINATION

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

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

ADMINISTRATIVE SERVICE AGREEMENT

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

- a) samples certified products rountinely
- b) has the right to witness any and all testing required by the program
- c) reviews all test reports in order to determine compliance of the certified product with the specifications
- d) inspects and approves all in-plant and test laboratory test facilities for use in this certification program (test laboratories are "recognized" or approved by the SGCC certification committee)
- e) publishes and mails the SGCC certified products directory on or about each January 1 and July 1
- f) handles all routine clerical duties of SGCC with respect to certification matters
- g) acts as SGCC treasurer, invoice licensees, maintaining a bank account and dispersing funds (fiscal reports are made to the SGCC certification committee)
- h) furnishes all testing except for prototype tests
- i) attends all scheduled meetings of the SGCC certification committee and
- j) in all of its actions acts in the name of SGCC

PROCEDURAL GUIDE

This guide outlines program procedures in accordance with the provisions of the license agreement and the administrative service agreement, for the guidance of those concerned with the procedural details of the certification program. It covers the steps to be taken in any given procedural situation in the interest of equitable and uniform treatment of licensees and the preservation of the integrity of the certification program.

CERTIFIED PRODUCTS DIRECTORY

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

CERTIFICATION LABEL

This certification mark is permanently affixed to each piece of certified safety glazing material by the licensee. it contains a number that refers to the listing in the certified products directory. The listing then provides a complete product description including the company name, plant location, etc.

PROGRAM RESPONSIBILITY

The SGCC board of directors has overall responsibility for the well being and acceptance of the certification program by the industry, building officials and the public. It also bears corporate legal responsibility.

The SGCC certification committee has the responsibility for the general procedure and policy pertaining to operation of the certification program. As a part thereof, it:

- a) establishes certification "guidelines"
- b) determines the applicability of the specifications in a specific situation where a question is raised by a licensee or the administrator
- c) approves test laboratories
- d) determines which of the specifications are to be designated effective for the purposes of product certification and the date or dates on which they become effective
- e) recommends to the SGCC board of directors changes to be made in the license agreement

COMMUNICATIONS

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

Mr. Richard L. Morrison, SGCC President c/o Ford Motor Company Glass Division 300 Renaissance Center; P.O. Box 43343 Detroit, MI 48243 Telephone: 716-665-6422 Mr. Robert A. Moss, Chairman SGCC Certification Committee c/o Hamilton Glass Products, Inc. 2000 Chestnut Street P.O. Box 317 Vincennes, IN 47591 Telephone: 812-882-2680

Mr. Claude F. Robb Administrative Manager ETL Testing Laboratories, Inc Route 11 - Industrial Park P.O. Box 2040 Cortland, NY 13045 Telephone: 607-753-6711

CERTIFICATION GUIDELINES AND INTERPRETATIONS

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

GENERAL

- G.1
 Participation in the certification program will be on a January 1 to July 1 and July 1 to January 1 basis. Charges will be prorated to the nearest whole month based on the date of approval of certification.
- Tests for initial compliance of safety glazing materials to ANSI Z97.1-1984 will be accepted from any testing laboratory approved by the SGCC certification committee.
- Paragraph (1) Section 5.1.3 of ANSI Z97.1-1984 is intended to apply to laminated, wired and organic coated glass only. Paragraph (2) is intended to apply to tempered glass only. Paragraph (3) is intended to apply to plastics only. Paragraph (4) is intended to apply to any safety glazing material.
- For insulating glass units to be considered safety glazing material, each light in the construction must be of safety glazing material.
- The SGCC item number when used as part of a permanent label designates the name of the licensee (participant) and also the location of the manufacturing plant since the certified products directory which lists the item number and pertinent data is published twice a year.
- G.6
 a) All test specimens, except for prototype samples, must be marked with the correct SGCC permanent label prior to testing in order to be considered a valid sample. The administrator shall construe the absence of a correct permanent label as a failure to comply with the specifications. In such cases of noncompliance, Sections a, c, and e of G.11 shall be followed.
- b) The laboratory shall verify that the label has the correct SGCC number, designation of the ANSI standard, nominal thickness, and certified size designation (U or L).
- c) The testing laboratory is to advise the administrator of any specimen that does not in fact bear the correct SGCC permanent label and will be instructed by the administrator not to test but hold the sample.
- d) The administrator will inform the licensee of the situation and direct (by letter) the testing laboratory to commence testing no later than 30 days hence. Until that time the testing laboratory is instructed to make these specimens available to the licensee at their convenience (the specimens are to remain at the testing laboratory) in order that the licensee may point out or show them that in fact the SGCC permanent label is correct or agree that in fact the correct SGCC permanent label is not present. In cases of any dispute between the licensee and the testing laboratory the decision of the administrator shall be final. The licensee shall not mark specimens after receipt at the testing laboratory.
- e) As of July 1, 1985 the SGCC permanent label must contain ANSI Z97.1-1984 in order to be considered a correct permanent label for purposes of Guideline G.6.
- G.7
 Safety glazing materials for which certification is requested for indoor use only shall be subjected to the provisions of section 5.1 (impact tests) and 5.4 (aging tests) of ANSI Z97.1-1984 irrespective of the composition or construction of the glazing material. Like products and materials produced in the same manner as samples submitted for test shall be legibly and permanently marked in one corner with the words "Indoor Use Only" and the SGCC identification number.
- 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 producted up to the size provided by Table 1, ANSI Z97.1-1984 are exposed to selection for testing.
- G.9 Specimen sizes up to 34 inches by 77 inches shall be valid samples when independently obtained by the administrator for purposes of routine evaluation.

- G. 10
- In cases where the administrator samples and identifies specimens for routine evaluation of the licensee's premises or requests licensee's samples when none are available at the time of sampling:
- a) The licensee be permitted 6 weeks in which to effect delivery of said specimens to the administrator's designated testing laboratory.
- b) Failure to act as specified above shall be construed by the administrator as failure of the said specimens to comply with the specifications and the administrator shall act as provided for in license agreement A.6.
- G. 11
- In cases where a routine evaluation sample fails to comply with the specifications:
- a) Written notice and an invoice shall be sent to the licensee by the administrator stating that within 30 days from the date of such notice the licensee must submit a retest sample to the testing laboratory designated by the administrator.

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

- b) Within 3 months the administrator shall obtain an additional random sample for evaluation (in addition to the routine evaluation sample obtained twice a year). The administrator shall be certain that this additional sample is of recent production.
- c) At the option of the administrator, specimens submitted under a) above shall be either prototype size and pattern or identical to those previously sampled and of recent production.
- d) Certification shall be removed if the additional random sample obtained in b) above fails to comply with the Specifications.
- e) All costs related to G.11 are to be borne by the licensee.
- G. 12
- If a licensee who manufactures a certified product outside the 48 contiguous states feels that in a particular instance that he will be unable to act as provided for in paragraph a) of SGCC Guideline G.11, he should notify the administrator. The administrator will then contact the chairman of the certification committee for a decision as to what action is to be taken.
- G.13

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

G. 14

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

G. 15

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

G.16

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

- G. 17
- All safety glazing materials that are not symmetrical from surface to surface shall be impacted two specimens on one side and two specimens on the other side.
- G. 18

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

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

G 19

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

G. 20

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

G. 21

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

G.22

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

- a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.
- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1984 for each alternate pattern proposed.
- c) The certification committee is provided with a 6 by 6 inch smaple of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.

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

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

G. 23

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

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

ANSI 28 JANUARY 1, 1986

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

G. 24

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

G.25

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

G. 26

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

G 27

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

G. 28

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

G. 29

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

G.30

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

G.31

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

G.32

None

TEMPERED TRANSPARENT GLASS

T.1

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

T.2

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

T.3

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

T.4

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

T.5

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

T.6

Prototype test shall be conducted on bent specimens sampled from normal production run. The specimen size shall have a surface area of at least 50 percent of the maximum size for which certification is desired. Routine tests may be performed on bent specimens or flat specimens fabricated using the same tempering furnace. The test appratus shall be modified to clamp the vertical straight edges and to support the concave side of the curved edges. Impact shall be on the convex surface.

TEMPERED PATTERN GLASS

TP. 1

For the purposes of certification, the nominal thickness of patterned, figured, or rough rolled glass are the common fractions found in DD-5-451d. The permanent label must contain this fraction or a metric or decimal dimension within the tolerance of this thickness as published in DD-5-451d.

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

<u>io</u>
or above through 0.89 or below

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

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

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

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

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

TP.2

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

TP.3

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

TP.4

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

TP.5

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

TP.6

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

LAMINATED GLASS

L. 1

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

L.2

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

L.3

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

L.4

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

L.5

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

L.6

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

L.7

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

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

ı a

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

L.9

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

WIRED GLASS

W. 1

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

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

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

PLASTICS - GENERAL

P. 1

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

P 2

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

P.3

The following thickness tolerances shall be used for certification purposes:

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

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

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

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

P.4

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

P.5

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

PLASTICS - EXTERIOR USE

PE.1

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

PE.2

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

PE.3

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

PE.4

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

PLASTICS - INDOOR USE ONLY

PI.1

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

PI.2

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

PI.3

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

LEADED PATTERNED ANNEALED GLASS

1G 1

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

- a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.
- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the impact requirements of ANSI Z97.1-1984 for each alternate pattern proposed.
- c) The certification committee is provided with a 6 by 6 inch sample of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.
- d) After admission under blanket certification covering leaded patterned glass (annealed), any such patterns available may be selected by the administrator for routine sampling.
- LG. 2

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

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

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

LG.3

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

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

ORGANIC COATED GLASS

AG. 1

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

AG.2

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

Prototype test shall be conducted on bent specimens of the surface area at least 50 percent of the maximum size for which certification is desired. Routine tests may be conducted on flat or bent specimens. The test apparatus shall be modified to clamp the vertical straight edges and to support the concave side for the curved edges. Two specimens shall have organic coating on the concave surface and two on the convex surface. Impact shall be on the convex surface.

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

The purpose of ANSI Z97.1-1984 is to prescribe the functional properties of safety glazing materials so that they can be used in any place in buildings for which they possess the requisite characteristics. Intended to serve as a convenient reference for building officials, this important document is designed to provide a basis for standards that may be incorporated in federal, state and location regulations.

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

American National Standards Institute 1430 Broadway New York, NY 10018

* * * *

SGCC LABEL REQUIREMENTS

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

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

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

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

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

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

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

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

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

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

The permanent label must be affixed to any product from which certification has been withdrawn or which is producted with a process basically different from the one used when certification was obtained.

EXAMPLES:

ANSI Z97.1-1984 16 CFR 1201 II SGCC-123/691 1/4 U ANSI Z97.1-1984 SGCC-123 1/4 U 16 CFR 1201 II SGCC-691 ACI GLASS PRODUCTS, INC.

9010 South Norwalk Boulevard Santa Fe Springs, CA 90670 ARDCO, INC.

(ANSI ONLY)

12400 South Laramie Avenue Chicago, IL 60658

TEMPER - GARD ANSI Z97.1-1984 SGCC- 1042 3/16U

ADVANCED COATING TECHNOLOGY, INC.

306 Beasley Drive Franklin, TN 37064

ANSI Z97.1-1984 16 CFR 1201 II SGCC-1277 1/4 U ASHAI GLASS COMPANY, LTD.

(ANSI ONLY)

c/o Global Link, Inc. 548 Rose Avenue Venice, CA 90291

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

AFG INDUSTRIES, INC.

P.O. Box 929 Kingsport, TN 37662

_____**A**___

TEMPERED 16 CFR 1201-CH ANSI Z97.1 1984 1/80 SGCC-1390 AFG 006 BS 6206 A CHAMBERLAIN MANUFACTURING CORPORATION

P.O. Box H Hot Springs, AR 71901

CHAMBERLAIN

TEMPERED SAFETY GLASS MALVERN, ARKANSAS 16CFR 1201 II ANSI Z97.1-1984

SGCC-1377 3/16U

ANGLASS INDUSTRIES, INC.

12364 Gladstone Avenue San Fernando, CA 91342 (ANSI ONLY)

TEMPERED



AHSI 297.1- 1984 5600-520 1/80 **COLONIAL MIRROR AND GLASS CORPORATION** 142 19th Street

Brooklyn, NY 11232

COLONIAL MIRROR & GLASS CORP. SAFETY TEMPERED GLASS GLAS STEEL 3/4" U ANSI 297.1-1984 16 CFR 1201-.1, I1-SGCC-P166

UNLESS OTHERWISE DESIGNATED, ABOVE LOGO INDICATES PARTICIPATION IN BOTH ANSI AND CPSC PROGRAMS.

DLUBAK STUDIOS, INC.

(ANSI ONLY)

FALCONER-LEWISTOWN, INC. One Belle Avenue

(ANSI ONLY)

116 Sipes Road Freeport, PA 16229

DLUBAK STUDIOS LAMINATED GLASS ANSI 297.1-1984 SGCC-1350 1/2U

Lewistown, PA 17044 FALCONER GLASS IND. INC

DURASAFE 1 4" U TEMPERED SAFETY GLASS ANSIZ97.1-1984 16 CFR 1201 C11 SGCC 709

DOWNEY GLASS COMPANY, INC.

5631 Ferguson Drive Los Angeles, CA 90022



ELGIN PRECISION GLASS COMPANY, INC.

1200 Abbott Drive Elgin, IL 60120

> EPG ANSI Z97.1-1984 16 CFR 1201 Cll SGCC-1370 5/32U

EMPIRE GLASS, INC. 608 East 133rd Street Bronx, MY 10454

EMPIRE GLASS INC. EGI - SAFGLAS "ANSI Z 97.1 - 1984" 16 CFR 1201 II SGCC - 1401 1/2 - U

FALCONER GLASS INDUSTRIES, INC. 500 South Work Street

Falconer, NY 14733

FALCONER LAMINATED ANSI Z97.1-1984 SGCC #1284 1/4U 1-85

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

FLEX - O - GLAZE TM. ACRYLIC SAFETY GLAZING 15 CFR 1201 CII 100U ANSI 297.1-84 SGCC-118

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

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

FORD MOTOR COMPANY GLASS DIVISION

300 Renaissance Center; P.O. Box 43343 Detroit, MI 48243



FORD TEMPERED SAFETY GLASS ANSI 297.1-1984 SGCC 341 1/8 U 6E

FULTON GLASS INDUSTRIES, INC.

5225 Welcome All Road Red Oak, GA 30272

FULTONTEMP SGCC #34 1/2" U 16 CER 1201-IL SGCC #27 ANSI Z97.F1984

GATEWAY INDUSTRIES

1414 South First Street Rogers, AR 72756

GWI TEMPERED ANSI 297.1-1984 IGCFR 1201-11 SGCC-1255 1/8 U DOT 272 AS2 MI

GEMTRON CORPORATION

New Highway 68; P.O. Box 416 Sweetwater, TN 37874

TEMPERED 16CFR 1201 CII ANSI Z97.1-1984 3/16 U - SGCC - 1201/1202 GEMTRON 131 1985

GENERAL GLASS CORPORATION

P.O. Box 38711 Denver, CO 80238



GLASS TEMPERING SERVICE, INC.

14285 Wyoming Street Detroit, MI 48238

GTS

SAFETY TEMPERED ANSI Z971-1984 16 CFR 1201 II SGCC-1238 1/4 L

GLASSTEMP, INC.

1001 Foster Avenue Bensenville, IL 60106

> GLASSEMP ANSI Z97.1-1984 16 CFR 1201 CIL SGCC-1382 1/4"-U 69

GUARDIAN INDUSTRIES CORP.

43043 West Nine Mile Road Northville, MI 48167

GUARDIAN
FORT LAUDERDALE, FL.
ANSI 297.I 1984
SAFETY TEMPERED
SGC 41 3/80
I6 SFR 1201 II

(ANSI ONLY)

UNLESS OTHERWISE DESIGNATED, ABOVE LOGO INDICATES PARTICIPATION IN BOTH ANSI AND CPSC PROGRAMS.

HAMILTON GLASS PRODUCTS, INC.

2000 Chestnut Street; P.O. Box 317 Vincennes, IN 47591

> **TEMPER-TUF HAMILTON GLASS** VINCENNES IN ANSI Z97.1-1984 1/8 U SGCC- 54 16 CFR 1201 C II

HANKUK GLASS INDUSTRY, LTD.

(ANSI ONLY)

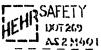
451 Yeo Ul Do-Dong Young Deung Po-Ku Seoul, KOREA 150



ANSI Z97.1-1984 SGCC-1413 1/4U

HERH INTERNATIONAL, INC.

1103 West Pearl Street Chesaning, MI 48616



SOLIDTESPERED .125-L ANSI Z97.1-1984 16CFR1201-11 SGCC-1062

HORDIS BROTHERS, INC.

P.O. Box 368 Warrenton, MO 63383

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

HOWE-MARTZ GLASS COMPANY 14291 Meyers Road

Detroit, MI 48227

FLO # TUF TEMPERED SAFETY GLASS 16 CFR 1201 CII

ANSI Z97.1-1984 1/2U SGCC 1270

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



TUF-FLEX® FT 1/2"U I
TEMPERED SAFETY GLASS
GLASS ANSI Z97.1-1984 SGCC-375
16CFRIZGI-LU SGCC-850 BS6206A

LEAR SIEGLER, INC.

P.O. Box 1879 Wichita, KS 67201



👞 SAFELITE 🏵 SGCC-1173 LAMINATED 7/32 U ANSI Z97.I-1984

NASHVILLE TEMPERED GLASS CORP 1040 Cornelia Street Nashville, TN 37217

 N_TG_C ANSI Z97.1-1984 16 CFR 1201 CII SGCC 1416 1/8" U DOT 359 AS 2

OHIO PLATE GLASS COMPANY

P.O. Box 671 Lewisburg, OH 45338

TEMPERED 8GCC 185 OHIO PLATE 3/16"-U 16CFRI201-II ANSI Z97.1-1984

85 HL

PPG INDUSTRIES, INC.

1000 RIDC Plaza P.O. Box 2811 Pittsburgh, PA 15230

PPG HERCULITE K
TEMPERED SAFETY GLASS
16CFR1201 CII
ANSI Z-97.1-1984 1/4U
SGCC-382 6 022585

PPG INDUSTRIES CANADA, LTD.

1299 20th Street, East Owen Sound, Ontario, CANADA N4K 2C3

> PPG HERKULITE · K TEMPERED TREMPE CAN 2-12.1 DOT 165 16 CFR 1201-C11 ANSI Z97.1-1984 SGCC-251 1/8"U

SAINT GOBAIN

c/o Euroglass Corporation
123 Main Street; Suite 920
White Plains, NY 10601

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

SAN JACINTO GLASS CO.

P.O. Box 5207 Houston, TX 77262



ANSI Z97.1-1984 16 CFR 1201 II SGCC 1292 1/8 U

SHAW GLASS COMPANY, INC.

55 Bristol Drive South Easton, MA 02375

> SOLAR TEMP. 16 CFR 1201 11

ANSI Z 97.1- 1984 1/4 U SGCC 1035

SOUTHERN WHOLESALE GLASS, INC.

3200 Austell Road Marietta, GA 30060

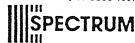


SOUTHERN TEMP. Ansi 297.1-1984 is CFR i201-CII SGCC i230 3/46*U

SPECTRUM GLASS COMPANY

East Railroad Street; P.O. Box 408 Clinton, NC 28328

TUF-FLEX® FT 1/4"U TEMPERED SAFETY GLASS ANSI 297.1-1934 SGCC-1074 16 CFR 1201-1, 11 SGCC-1081



UNLESS OTHERWISE DESIGNATED, ABOVE LOGO INDICATES PARTICIPATION IN BOTH ANSI AND CPSC PROGRAMS.

(ANSI ONLY)

SUNGLAS PRODUCTS, INC.

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

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

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

- Tuf-flex Glass FT 1/4"-U | •
- . TEMPERED SAFETY GLASS .
- ANSI 297.1-1984 16 CFR 1201-1811
- SGCC-321

SGCC-863 •

TEMPERED GLASS CORPORATION

6900 Adamo Drive Tampa, FL 33619

> TEMPCO SGCC-337 .250U SGCC-832 I6 CFR I20I-II ANSI Z97.1 1984



TEMPERED GLASS INTERNATIONAL, INC.

700 Bradford Way Union City, CA 94587

- Tuf-flex Glass FT 1/4'-0 1 •
- . TEMPERED SAFETY GLASS .
- AMSI 297.1-1984 16 CFR 1201-14-11
- * SECC-1204 SECC-1205 *

TEMPGLASS, INC.

Ampoint 291 M Street Perrysburg, OH 43551

> TEMPGLASS, INC. 16 CFR 1201 C# ANSI Z97.1 - 1964 SGCC 1420 1/4 - U (1)

TEMPGLASS EASTERN, INC.

Blueridge Industrial Park P.O. Box 928 Norcross, GA 30071

> TEMPGLASS EASTERN ANSI Z97.1-1984 16CFR 1201-II SGCC-979 'k'' U 85

TEMPGLASS SOUTHERN, INC.

1101 Fountain Parkway Grand Prairie, TX 75050

TEMPGLASS SOUTHERN ANSI Z97.1 - 1984 SGCC 1045 3/8" U 16 CFR 1201 - 11

TEXAS TEMPERED GLASS COMPANY

1331 West Belt Drive North Houston, TX 77024

TEXAS TEMPERED

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

TRACO (THREE RIVERS ALUM.)

Cranberry Industrial Park P.O. Box 805 Warrendale, PA 15095



TRACO VIEW-SAFE TEMPERED GLASS ANSI 297.1-1984 16 CFR 1201 II SGCC-1313 1/2U

VIDRIERIAS DELLODIO, S.A.

(CPSC ONLY)

c/o Guardian Industries Corp. 43043 West Nine Mile Road Northville, MI 48167



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

VIRACON, INC.

800 Park Drive; P.O. Box 248 Owatonna, MN 55060

> **VIRACON** TEMPERED 16 CFR 1201 11 SGCC 1404 1/4" U ANSI 297.1 1984 1 85

VIRGINIA GLASS PRODUCTS CORPORATION

P.O. Box 5431 Martinsville, VA 24115



SGCC LABEL REQUIREMENTS

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

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

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

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

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

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

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

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

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

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

The permanent label must be affixed to any product from which certification has been withdrawn or which is producted with a process basically different from the one used when certification was obtained.

EXAMPLES:

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

PROGRAM CONCEPT

The safety of the public is paramount. Manufacturers of safety glazing products, building code administrators and others responsible for the safety of the public, recognizing the need for a common standard for safety glazing materials, jointly established the Safety Glazing Certification Council (SGCC) in 1971.

The Safety Glazing Certification Council is a non-profit organization which has established and maintains a program to administrater periodic testing to the 16 CFR 1201 standard, a recognized standard for safety glazing in buildings. This standard subjects glazing materials to a practical test to determine that if they are broken by human contact, they break in a manner that would minimize the likelihood of cutting or piercing injury. SGCC's responsibilities are threefold: to assure a periodic testing program is maintained; to approve and register the form of the manufacturer's label; and to withdraw the manufacturer's authority to use that label if its products do not meet 16 CFR 1201 standards.

Management and control of the program is vested in a board of directors, half representing industry and half representing public interest. The public interest representatives are empowered to veto any action regardless of the number present at a meeting. This insures against industry dominance of SGCC actions. The organization operates an independent third party certification and testing program.

The program uses independent testing laboratories under the supervision of a qualified administrator who is a professional engineer. He is unaffiliated with any manufacturer of safety glazing materials and is hired by and responsible to the Safety Glazing Certification Council. The manufacturer of the products listed herein has certified that the labeled materials comply with the safety characteristics established by 16 CFR 1201. The compliance of the manufacturer with the requirements of that standard is being checked periodically by an independent testing laboratory under the supervision of SGCC.

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

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

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

SGCC NO.		SGCC NO.		SGCC NO.	:
140.	•				•
12	Virgina Glass	810	Downey Glass	1111	PPG Industries
	Virgina Glass	811	Downey Glass		PPG Industries
	AFG Industries	812	Downey Glass		Downey Glass
	AFG Industries	813	Downey Glass		PPG Industries
54	Hamilton Glass	814	Downey Glass	1130	Fulton Glass
57	Hamilton Glass	815	Downey Glass	1131	Fulton Glass
	PPG Industries	817	Downey Glass	1132	Fulton Glass
	PPG Industries	832	Tempered Glass	1134	Fulton Glass
64	PPG Industries	833	Tempered Glass		AFG Industries
70	PPG Industries	834	Tempered Glass	1143	AFG Industries
89	AFG Industries	844	LOF Glass		ACI Glass Products
90	AFG Industries	845	LOF Glass		Colonial
93	Virginia Glass	846	LOF Glass		Colonial
94	Virginia Glass		LOF Glass		Colonial
* 95	Virginia Glass	848	LOF Glass	1180	General Glass
118	Flex-O-Glass		LOF Glass		General Glass
137	Texas Tempered	850	LOF Glass		General Glass
185	Ohio Plate Glass		Tempered Glass, Inc.		Texas Tempered
186	Ohio Plate Glass		Tempered Glass, Inc.		Hamilton Glass
194	PPG Industries	865	Tempered Glass, Inc.	1202	Gemtron
195	PPG Industries	866	Tempered Glass, Inc.	1205	Tuf-flex Glass
	PPG Industries Canada		Flex-Temp	1210	Tempered Glass
_	AFG Industries	873	Flex-Temp	1212	Fulton Glass
	PPG Industries	874	Flex-Temp		Tempglass Southern
250	PPG Industries	879	Tuf-flex Glass	1226	ACI Glass Products
251	PPG Industries	881	Tuf-flex Glass		Southern Wholesale
295	PPG Industries	882	Tuf-flex Glass		Southern Wholesale
400	PPG Industries	949	AFG Industries		Southern Wholesale
402	PPG Industries	955	AFG Industries		Virginia Glass
454	PPG Industries Canada	979	Tempglass Eastern	1238	Glass Tempering Service
455	PPG Industries	981	Tempglass Eastern	1259	Tempglass Eastern
	Chamberlain	982	Tempglass Eastern	1265	Howe-Martz
587	AFG Industries	986	Temp-Tech	1266	Howe-Martz
592	Tempglass	1003	Downey Glass	1268	Howe-Martz
594	Tempglass	1034	Shaw Glass	1269	Howe-Martz
595	Tempglass	1035	Shaw Glass		Howe-Martz
	AFG Industries		Shaw Glass		Virginia Glass
638	ACI Glass Products		Shaw Glass		Advanced Coating Technology
639	ACI Glass Products		Tempglass		Falconer Glass
640	ACI Glass Products	1044	Tempglass Southern	1281	Ohio Plate Glass
669	Texas Tempered	1045	Tempglass Southern		Ohio Plate Glass
	PPG Industries	1046	Tempglass Southern	1287	Ohio Plate Glass
	PPG Industries	1050	Ohio Plate Glass	1292	San Jacinto
	Falconer Glass	1058	Tempglass Eastern	1293	San Jacinto
711	Falconer Glass	1059	Tempglass Eastern	1294	San Jacinto
712	Falconer Glass		Hehr International		San Jacnito
727	Ford Motor Company		Shaw Glass		San Jacinto
728	Ford Motor Company		Spectrum Glass		Shaw Glass
729	Ford Motor Company		Spectrum Glass		Traco
730	Ford Motor Company	1082	Spectrum Glass	1310	Traco
805	Downey Glass	1083	Spectrum Glass	1311	Traco
	Downey Glass		Spectrum Glass	1312	Traco
	Downey Glass		Spectrum Glass		Traco
	Downey Glass	1086	Spectrum Glass		Fulton Glass
	Downey Glass	1110	PPG Industries	1329	Tempered Glass

SGCC	SGCC	SGCC
NO.	NO.	NO.
1330 Falconer Glass	1377 Chamberlain	1407 Vidrierias De Llodio
1331 Vidrierias De Llodio	1378 Chamberlain	1408 Texas Tempered
1333 Gemtron	1379 Hordis Brothers	1414 AFG Industries
1335 Gemtron	1380 Hordis Brothers	1415 Southern Wholesale
1338 Tempglass Eastern	1381 Glasstempers	1416 Nashville Tempered
1339 Falconer Glass	1382 Glasstemp	1417 Nashville Tempered
1341 Colonial	1383 Glasstemp	1419 Nashville Tempered
1343 Lear Siegler	1384 Glasstemp	1420 Tempglass, Inc.
1344 Howe-Martz	1385 Hamilton Glass	1421 Hordis Bros.
1352 Falconer Glass	1386 Hamilton Glass	1423 Gemtron
1355 Gateway Industries	1387 Hamilton Glass	1425 Gemtron
1356 Gateway Industries	1389 Glass Tempering Service	1427 Gemtron
1357 Gateway Industries	1390 AFG Industries	1428 Southern Wholesale
1358 Gateway Industries	1394 Gateway Industries	1429 0 & W Glass
1359 Gateway Industries	1396 Tempered Glass	1430 O & W Glass
1360 Lear Siegler	1397 Empire Glass	1436 AFG Industries
1365 Sunglas Products	1398 Empire Glass	1438 Flex-Temp., Inc.
1366 Sunglas Products	1399 Empire Glass	1440 Flex-Temp., Inc.
1367 Sunglas Products	1400 Empire Glass	2001 Gemtron
1369 Elgin Precision Glass	1401 Empire Glass	
1370 Elgin Precision Glass	1402 Empire Glass	
1371 Elgin Precision Glass	1403 Viracon	
1372 Elgin Precision Glass	1404 Viracon	
1375 Sunglas Products	1405 Southern Wholesale	
1376 Chamberlain	1406 Southern Wholesale	

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
ACI GLASS P	ו פדיווחתם	NC - SANTA	EE SPRING	S CA	EMPIRE GI A	ASS, INC.; BRO	ONX NY		
1157	3/16	(5.0)	TTG	U U	1397	1/8	(3.0)	TTG	U
638	1/4	(6.0)	TTG	U	1398	3/16	(5.0)	TTG	U
639	3/8	(10.0)	TTG	Ū	1399	1/4	(6.0)	TTG	U
640	1/2	(12.0)	TTG	Ü	1400	3/8	(10.0)	TTG	U
1226	1/8	(3.2)	TPG(S)	ŭ	1401	1/2	(12.0)	TTG	Ü
1226	1/0	(3.2)	114(3)	J	1402	3/4	(19.0)	TTG	Ü
AFG INDUST	RIES. INC.: B	RIDGEPORT	. wv		, ,,,,,	σ, .	(,,,,		
1436	1/8	(3.0)	TTG	U	FALCONER (GLASS INDUS	TRIES, INC	C.; FALCONER	R, NY
					1339	5/32	(4.0)	TTG	U
AFG INDUST	RIES, INC.; G	REENLAND	, TN		1352	3/16	(5.0)	TTG	U
598	1/8	(3.0)	TTG	U	709	1/4	(6.0)	TTG	U
955	5/32	(4.0)	TTG	U	1280	3/8	(10.0)	TTG	U
220	3/16	(5.0)	TTG	U	711	1/2	(12.0)	TTG	U
89	1/4	(6.0)	TTG	U	712	3/4	(19.0)	TTG	U
90	3/8	(10.0)	TTG	Ü	1330	3/16	(4.0)	TPG(S)	Ü
587	1/8	(3.2)	TPG(S)	ŭ	1000	0, 10	(4.0)	11 0(3)	_
	3/16	(4.8)	TPG(S)	Ü	FLEX-O-GL	ASS, INC.; DIX	(ON II		
1139	3/ 10	(4.0)	114(3)	J		.080 inch	-	0 125 inch	U
ACC INDUCT	DIEC INC. F	UNICCDORT	TN			mooth extr	_		J
AFG INDUST					S	mooth extr	uded acr	yric	
1390	1/8	(3.0)	TTG	U	T-110				
949	5/32	(4.0)	TTG	U		, INC.; IRVING			
28	3/16	(5.0)	TTG	U	872	1/4	(6.0)	TTG	U
24	1/4	(6.0)	TTG	U	873	3/8	(10.0)	TTG	U
1414	1/8	(3.2)	TPG(S)	U	874	1/2	(12.0)	TTG	U
1143	3/16	(4.8)	TPG(S)	U	1438	3/16	(4.0)	TTG	U
	-,	, ,	•		1440	7/32	(5.6)	TPG	U
ADVANCED (COATING TE	CHNOLOGY	: FRANKLIN	, TN					
1277	1/4	(6.0)	TTG	Ū	FORD MOTO	OR COMPANY	DEARBOR	RN, MI	
	•,, •	(0.0)			727	1/8	(3.0)	TTG	U
CHAMPERI A	IN MANUEA	CTURING C	ORPORATIO	N; MALVERN, AR	728	5/32	(4.0)	TTG	U
586	1/8	(3.0)	TTG	U	729	3/16	(5.0)	TTG	Ü
	-	•		Ü	730	1/4	(6.0)	TTG	Ü
1376	5/32	(4.0)	TTG		/30	1/4	(6.0)	110	U
1377	3/16	(5.0)	TTG	U	FULTON CL	ACC INDUCTO	ure inc.	DED OAK C	•
1378	1/4	(6.0)	TTG	U		ASS INDUSTR			u U
					1130	5/32	(4.0)	TTG	
COLONIAL N	AIRROR AND				1131	3/16	(5.0)	TTG	U
1165	1/4	(6.0)	TTG	U	1132	1/4	(6.0)	TTG	U
1166	3/8	(10.0)	TTG	U	1212	3/8	(10.0)	TTG	U
1167	1/2	(12.0)	TTG	U	1134	1/2	(12.0)	TTG	U
1341	3/4	(19.0)	TTG	U	1327	3/16	(4.8)	TPG(S)	U
					1				
DOWNEY GL	ASS CO., IN	C.; DOWNE	Y, CA		GATEWAY I	NDUSTRIES; I		NR .	
805	1/8	(3.0)	TTG	U	1355	1/8	(3.0)	TTG	U
1003	5/32	(4.0)	TTG	U	1356	3/16	(5.0)	TTG	U
806	3/16	(5.0)	TTG	U	1357	1/4	(6.0)	TTG	U
807	1/4	(6.0)	TTG	Ū	1358	1/8	(3.2)	TPG(S)	U
808	1/8	(3.2)	TPG(S)	Ü	1359	5/32	(4.0)	TPG(S)	U
809	1/8	(3.2)	TPG(M)	Ü	1394	3/16	(4.8)	TPG(S)	Ü
	•		TPG(M)	Ü	1 ,334	3/ 13	, 4.0)	4(3)	-
810	3/16	(4.8)	TPG(S)	U	GEMTPON 4	CORPORATION	V- SWEET	WATER TN	
811	7/32	(5.6)	174(5)	U	1335	1/8	(3.0)	TTG	U
			05150 04		1				Ü
	ASS CO., IN				1333	5/32	(4.0)	TTG	
812	3/16	(5.0)	TTG	U	1202	3/16	(5.0)	TTG	U
813	1/4	(6.0)	TTG	U	1423	1/8	(3.0)	TPG	U
814	3/8	(10.0)	TTG	U	1425	5/32	(4.0)	TPG	U
815	1/2	(12.0)	TTG	U	1427	. 169	(3.6)	TTG	U
1114	3/16	(4.8)	TPG(S)	U	2001	5/32	(4.0)	TPG	U
817	7/32	(5.6)	TPG(S)	U	i				
		, ,			GENERAL G	LASS CORPO	RATION; D	ENVER, CO	
ELGIN PREC	ISION GLAS	S CO., INC.:	ELGIN. IL		1180	5/32	(4.0)	TTG	U
1369	1/8	(3.0)	TTG	U	1181	3/16	(5.0)	TTG	U
1370	5/32	(4.0)	TTG	Ü	1182	1/4	(6.0)	TTG	Ū
1371	3/32	(5.0)	TTG	ŭ	1	., .	/	=	
1372	1/4	(6.0)	TTG	Ü	GLASS TEN	PERING SERV	/ICE. INC.:	DETROIT. MI	İ
13/4	1/**	(0.0)	1 , G	•	1389	1/8	(3.0)	TTG	30" by 76"
					1238	1/4	(6.0)	TTG	U
					1340	3/16	(5.0)	TPG	34" by 72"
					1	-, · -	, =,	 -	•
					-				

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO	. INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
GLASSTEMP	, INC.; BEN	SENVILLE,	L		0 & W G	.ass; evere	TT. IN		
1381	3/16	(5.0)	TTG	U	1429	1/8	(3.0)	TTG	U
1382	1/4	(6.0)	TTG	U	1430	3/16	(5.0)	TTG	U
1383	3/8	(10.0)	TTG	U					
1384	1/2	(12.0)	TTG	U	PPG INDU	STRIES, INC.	CARLISLE	, PA	
					250	1/8	(3.0)		U
HAMILTON 6		DUCTS, INC	:; VINCENN	es, in	675	5/32	(4.0)	TTG	U
54	1/8	(3.0)	TTG	U	249	3/16	(5.0)	TTG	U
1385	5/32	(4.0)	TTG	U	1				
1200	3/16	(5.0)	TTG	U	PPG INDU	STRIES, INC.;	CRESTLIN	E, OH	
57	1/4	(6.0)	TTG	U	60	1/8	(3.0)		U
1386	5/32	(4.0)	TPG(S)	U					
1387	3/16	(4.8)	TPG(S)	U	PPG INDU	STRIES, INC.;	DALLAS, T	X	
					400	3/16	(5.0)		Ú
HEHR INTERI	VATIONAL,	INC.; CHES	ANING, MI		402	1/4	(6.0)	TTG	Ū
1062	1/8	(3.0)	TTG	32" by 60"		,	,,		•
	·			,	PPG INDUS	STRIES, INC.;	FORD CITY	r. PA	
HORDIS BRO	THERS, INC	. WARREN	TON, MO		61	3/16	(5.0)	TTG	U
1379	1/8	(3.0)	TTG	ប	70	1/4	(6.0)	TTG	Ü
1380	5/32	(4.0)	TTG	Ū		., .	(,		J
1421	3/16	(5.0)	TTG	Ü	PPG INDUS	STRIES, INC.;	FRESNO. C	:A	
	-,	(-, -,		•	295	1/8	(3.0)	TTG	U
HOWE-MART	Z GLASS C	OMPANY: I	ETROIT. MI		676	5/32	(4.0)	TTG	Ü
1265	5/32	(4.0)	TTG	U	64	3/16	(5.0)	TTG	Ü
1266	3/16	(5.0)	TTG	Ü		0, 10	(0.0)	, , G	Ū
1268	1/4	(6.0)	TTG	Ü	PPG INDIES	TRIES, INC.;	HUNT VAL	IEV MD	
1269	3/8	(10.0)	TTG	Ü	454	3/16	(5.0)	TTG	U
1270	1/2	(12.0)	TTG	U	455	1/4	(6.0)	TTG	U
1344	3/16	(4.8)	TPG(S)	U	755	1/ 4	(0.0)	110	U
1344	3/ 10	(4.6)	174(3)	U	PDG INDIIS	TRIES, INC.;	MAIAMAI EI		
OF GLASS; I	ALIDINE ID	C NC			195	3/16	(5.0)	TTG	11
844	1/8	(3.0)	TTG		194	1/4			U
845	5/32			U	154	1/4	(6.0)	TTG	U
	•	(4.0)	TTG	U	DDC INDUC	TRIES, INC.;	MICHITA E	ALL C TV	
846	3/16	(5.0)	TTG	U	1110				
847	1/4	(6.0)	TTG	U		1/8	(3.0)	TTG	U
848	5/16	(8.0)	TTG	U	1111	5/32	(4.0)	TTG	U
849	3/8	(10.0)	TTG	U	1112	3/16	(5.0)	TTG	U
850	1/2	(12.0)	TTG	U	DOC IND C	ABIADA ITO	OWEN CO	·	
OF CLASS: 0	ACCEAND.	~			•			OUND, ONTAR	•
OF GLASS; R	-				251	1/8	(3.0)	TTG	U
855	1/4	(6.0)	TTG	U	1120	5/32	(4.0)	TTG	U
856	5/16	(8.0)	TTG	U	209	3/16	(5.0)	TTG	U
857	3/8	(10.0)	TTG	U	CAN	ro el 400 es	388D485	OUOTON	
858	1/2	(12.0)	TTG	U				OUSTON, TX	
859	5/8	(16.0)	TTG	U	1292	1/8	(3.0)	TTG	U
860	3/4	(19.0)	TTG	U	1293	3/16	(5.0)	TTG	U
					1294	1/4	(6.0)	TTG	U
EAR-SIEGLER					1295	3/8	(10.0)	TTG	U
1360	3/16	(5.0)	LTG(0.03	•	1296	1/2	(12.0)	TTG	IJ
1343	3/16	(5.0)	LPG(0.03	o)(s) u					
								TH EASTON,	MA
ASHVILLE TE			P.; NASHVILI	.E, TN	1034	3/16	(5.0)	TTG	U
1416		(3.0)	TTG	U	1035	1/4	(6.0)	TTG	U
1417	1/4	(6.0)	TTG	U	1036	3/8	(10.0)	TTG	U
1419	3/16	(4.8)	TTG	U	1037	1/2	(12.0)	TTG	U
					1299	3/16	(4.8)	TPG(S)	U
HIO PLATE G	LASS COM	PANY; JEFF	ERSON, TX		1071	7/32	(5.6)	TPG(S)	Ū
1281	1/8	(3.0)	TTG	U					
1286		(5.0)	TTG	Ū	SOUTHERN	WHOLESALE	GLASS, IN	C.; MARIETTA	, GA
1287	* .	(6.0)	TTG	Ü	1230	3/16	(5.0)	TTG	U
		2	•	-	1231	1/4	(6.0)	TTG	Ű
HIO PLATE G	LASS COMI	PANY: LEW	ISBURG. OH		1232	3/8	(10.0)	TTG	Ü
1050		(3.0)	TTG	U	1428	5/32	(4.0)	TPG	Ü
185	-	(5.0)	TTG	Ü	1405	1/8	(3.0)	TTG	U
		(6.0)	TTG	Ü	1415	3/16	(5.0)	TTG	U
186		,		U	B				_
186					1406	1/2	(12 ^1	TTG	11
186					1406 1428	1/2 5/32	(12.0) (4.0)	TTG TPG(62)	U U

SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED	SGCC NO.	INCH	(MM)	TYPE	MAX. SIZE CERTIFIED
SPECTRUM (GLASS COM	MPANY; CLIN	TON, NC		TRACO (THR	EE RIVERS	ALUM. CO.)	; WARREND	ALE, PA
1080	3/16 -	(5.0)	TTG	U	1308	1/8	(3.0)	TTG	IJ
1081	1/4	(6.0)	TTG	U	1310	3/16	(5.0)	TTG	U
1082	5/16	(8.0)	TTG	U	1311	1/4	(6.0)	TTG	U
	3/8	(10.0)	TTG	Ũ	1312	3/8	(10.0)	TTG	U
1083						1/2	(12.0)	TTG	Ü
1084	1/2	(12.0)	TTG	U	1313	1/2	(12.0)	110	U
1085	5/8	(16.0)	TTG	U					
1086	3/4	(19.0)	TTG	U	VIDRIERIAS [· · · · · · · · · · · · · · · · · · ·	-	
					1407	1/8	(3.2)	TPG(S)	U
SUNGLAS PE	RODUCTS, I	NC.; CLAREI	More, ok		1331	5/32	(4.0)	TPG(S)	U
1365	5/32	(4.0)	TTG	U					
1366	3/16	(5.0)	TTG	U	VIRACON, IN	C.; OWATO	NNA, MN		
1367	1/4	(6.0)	TTG	U	1403	3/16	(5.0)	TTG	U
1375	3/8	(10.0)	TTG	Ū	1404	1/4	(6.0)	TTG	U
1373	3,0	(10.0)		•		,	,,		
TEMP-TECH	INDUCTOR	S INC - CH	CAGO II		VIRGINIA GLA	ASS PRODU	ICTS CORP	· MARTINSV	ILLE. VA
		(6.0)	TTG	U	1236	5/32	(4.0)	TTG	U
986	1/4	(0.0)	110	U	1236	3/16	(5.0)	TTG	Ü
	01.400		C4		i .				
		C.; ATLANTA			14	1/4	(6.0)	TTG	U
862	3/16	(5.0)	TTG	U	93	3/8	(10.0)	TTG	U
863	1/4	(6.0)	TTG	U	94	1/2	(12.0)	TTG	U
865	3/8	(10.0)	TTG	U	95	3/4	(19.0)	TTG	U
866	1/2	(12.0)	TTG	Ū	1275	3/16	(4.8)	TPG(S)	U
	., -	(0)		-	1		,	,	
TEMPERED (SLASS COR	PORATION-	TAMPA FI						
1396	3/16	(5.0)	TTG	U	1				
	•		TTG	Ü	l				
832	1/4	(6.0)							
833	3/8	(10.0)	TTG	U					
834	1/2	(12.0)	TTG	U		CE	DTICICN	PRODUC	TC
1329	3/16	(4.8)	TPG(S)	U		UE			13
1210	7/32	(5.6)	TPG(S)	Ü			KE	Υ	
			ON CITY, CA		1				
881	3/16	(5.0)	TTG	U	1	TTG = TE	MPERED TRA	ANSPARENT	GLASS
882	1/4	(6.0)	TTG	U					
879	3/8	(10.0)	'TTG	U					
1205	7/32	(5.6)	TTG	U		TPG = TEN	MPERED PAT	TTERN GLAS	S
TEMPGLASS	, INC.; PERI	RYSBURG, O	H		1				
1039	1/8	(3.0)	TTG	U		LTG = I AN	NINATED TR	ANSPARENT	GLASS
592	3/16	(5.0)	TTG	Ü					
594	3/8	(10.0)	TTG	Ŭ					
		(10.0)	TTG	U	1	LDC - 145	AIRIATED DA	TTEDN C: 44	ec.
595	1/2			=	I	LPG = LAM	MINAIED PA	TTERN GLAS	ာခ
1420	1/4	(6.0)	TTG	U .	1				
TEMPGLASS	EACTEDAL	INC - NODO	BUSS GV			(0)		rrns	
				U	1	(S) = SHA	ALLOW PATT	EKN	
979	1/8	(3.0)	TTG		1				
1259	5/32	(4.0)	TTG	U	1				
981	3/16	(5.0)	TTG	U	1	(M) = ME	DIUM PATTI	ERN	
982	1/4	(6.0)	TTG	U	1				
1058	3/8	(10.0)	TTG	U	1				
1059	1/2	(12.0)	TTG	Ū	1	(D) - DE	EP PATTERN	ì	
1338	3/16	(4.8)	TPG(S)	Ü	I	INI - DEI	FALLENN	1	
1330	3/10	(4.0)	11 3(3)	Ü					
TEMPGLASS	SOUTHER	N, INC.; GRA	ND PRAIRIE, T	x		U = UN	LIMITED SIZ	'E	
1219	3/16	(5.0)	TTG	U		0 014			
1044	1/4	(6.0)	TTG	Ū					
1044	3/8	(10.0)	TTG	Ü					
		(10.0)	TTG	U					
1046	1/2	(12.0)	r i G	U	1				
TEXAS TEM	PERED GLA	SS COMPAN	Y; HOUSTON,	TX	İ				
1192	3/16	(5.0)	TTG	U	I				
37	1/4	(6.0)	TTG	Ü	1				
669	1/4	(12.0)	TTG	Ü	1				
1159	7/32	(5.5)	LTG(0.030	, 0					
					1				
					1				

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED TRANSPARENT GLASS		
1/8 inch tempered transparent glass		
AFC Industries, Inc.; Bridgeport, WV	1436	U
AFG Industries, Inc.; Greenland, TN	598	U
AFG Industries, Inc.; Kingsport, TN Chamberlain Manufacturing Corp.; Malvern, AR	1390 586	U U
Downey Glass Company, Inc.; Downey, CA	805	Ü
Elgin Precision Glass Co., Inc.; Elgin, IL	1369	Ü
Empire Glass, Inc.; Bronx, NY	1397	U
Ford Motor Company; Dearborn, MI	727	U
Gateway Industries; Rogers, AR Gemtron Corp.; Sweetwater, TN	1355 1335	U
Glass Tempering Service, Inc.; Detroit, MI	1389	30" by 76"
Hamilton Glass Products, Inc.; Vincennes, IN	54	U
Hehr International, Inc.; Chesaning, MI	1062	32" by 60"
Hordis Brothers, Inc.; Warrenton, MO LOF Glass: Laurinburg, NC	1379 844	U
Nashville Tempered Glass Corp.; Nashville, TN	1416	U U
Ohio Plate Glass Company; Jefferson, TX	1281	Ü
Ohio Plate Glass Company; Lewisburg, OH	1050	U
PPG Industries, Inc.; Carlisle, PA	250	U
PPG Industries, Inc.; Crestline, OH PPG Industries, Inc.; Fresno, CA	60	U
PPG Industries, Inc.; Wichita Falls, TX	295 1110	U U
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	251	Ü
San Jacinto Glass Company; Houston, TX	1292	U
Southern Wholesale Glass, Inc.; Marietta, GA	1405	U
Tempglass, Inc.; Perrysburg, OH Tempglass Eastern, Inc.; Norcross, GA	1039 979	U U
Traco (Three Rivers Aluminum Company); Warrendale, PA	1308	U
5/32 inch tempered transparent glass		
AFG Industries, Inc.; Greenland, TN	955	U
AFG Industries, Inc.; Kingsport, TN	949	U
Chamberlain Manufacturing Corp.; Malvern, AR	1376	U
Downey Glass Company, Inc.; Downey, CA Elgin Precision Glass Co., Inc.; Elgin, IL	1003	U
Falconer Glass Industries, Inc.; Falconer, NY	1370 1339	U
Ford Motor Company; Dearborn, MI	728	U
Fulton Glass Industries, Inc.; Red Oak, GA	1130	Ü
Gemtron Corp.; Sweetwater, TN	1333	U
General Glass Corporation; Denver, CO	1180	U
Hamilton Glass Products, Inc.; Vincennes, IN Hordis Brothers, Inc.; Warrenton, MO	1385 1380	U U
Howe-Martz Glass Co.; Detroit, MI	1265	U
LOF Glass; Laurinburg, NC	845	Ū
PPG Industries, Inc.; Carlisle, PA	675	U
PPG Industries, Inc.; Fresno, CA	676	U
PPG Industries, Inc.; Wichita Falls, TX PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	1111 1120	U U
Sunglas Products, Inc.; Claremore, OK	1365	U
Tempglass Eastern, Inc.; Norcross, GA	1259	Ü
Virginia Glass Products Corp.; Martinsville, VA	1236	U
TEMPERED TRANSPARENT GLASS 3/16 inch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, CA	1157	u
AFG Industries, Inc.; Greenland, TN	220	Ü
AFG Industries, Inc.; Kingsport, TN	28	Ü
Chamberlain Manufacturing Corporation; Malvern, AR	1377	U
Downey Glass Company, Inc.; Downey, CA Downey Glass Company, Inc.; Los Angeles, CA	806	U
Elgin Precision Glass Company, Inc.; Elgin, IL	812 1371	U U
Empire Glass, Inc.; Bronx, NY	1398	Ü

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED TRANSPARENT GLASS - continued		
3/16 inch tempered transparent glass		
Falconer Glass Industries, Inc.; Falconer, NY	1352	υ
Flex-Temp., Inc; Irving, TX	1438	U
Ford Motor Company; Dearborn, MI	729	U
Fulton Glass Industries, Inc.; Red Oak, GA	1131	Ü
Gateway Industries; Rogers, AR	1356 1202	U
Gemtron Corporation; Sweetwater, TN	1181	U
General Glass Corporation; Denver, CO Glasstemp, Inc.; Bensenville, IL	1381	Ü
Hamilton Glass Products, Inc.; Vincennes, IN	1200	Ü
Howe-Martz Glass Company; Detroit, MI	1266	Ü
LOF Glass; Laurinburg, NC	846	Ū
Nashville Tempered Glass Corp.; Nashville, TN	1419	U
Ohio Plate Glass Company; Jefferson, TX	1286	U
Ohio Plate Glass Company; Lewisburg, OH	185	U
PPG Industries, Inc.; Carlisle, PA	249	U
PPG Industries, Inc.; Dallas, TX	400	U
PPG Industries, Inc.; Ford City, PA	61	U
PPG Industries, Inc.; Fresno, CA	64	U
PPG Industries, Inc.; Hunt Valley, MD	454	U
PPG Industries, Inc.; Miami, FL	195	U
PPG Industries, Inc.; Wichita Falls, TX	1112	U U
PPG Industries Canada, Ltd.; Owen Sound, Ontario, Canada	209 1293	Ü
San Jacinto Glass Company; Houston, TX Shaw Glass Company, Inc.; South Easton, MA	1034	Ü
Southern Wholesale Glass, Inc.; Marietta, GA	1415	Ü
Spectrum Glass Company; Clinton, NC	1080	ŭ
Sunglas Products, Inc.; Claremore, OK	1366	Ū
Tempered Glass, Inc.; Atlanta, GA	862	Ü
Tempered Glass Corporation; Tampa, FL	1396	U
Tempglass, Inc.; Perrysburg, OH	592	U
Tempglass Eastern, Inc.; Norcross, GA	981	U
Tempglass Southern, Inc.; Grand Prairie, TX	1219	U
Texas Tempered Glass Company; Houston, TX	1192	U
Traco (Three Rivers Aluminum Company); Warrendale, PA	1310	U U
Tuf-flex Glass; Union City, CA	879 1403	U
Viracon, Inc.; Owatonna, MN	1403	U
Virginia Glass Products Corporation; Martinsville, VA	12	J
1/4 inch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, CA	638	
AFG Industries, Inc.; Greenland, TN	89	U
AFG Industries, Inc.; Kingsport, TN	24	U
Advance Coating Technology, Inc.; Franklin, TN	1277	U
Chamberlain Manufacturing Corporation; Malvern, AR	1378	U
Colonial Mirror and Glass Corporation; Brooklyn, NY	1165	U
Downey Glass Company, Inc.; Downey, CA	807 813	U
Downey Glass Company, Inc.; Los Angeles, CA	1372	U
Elgin Precision Glass Company, Inc.; Elgin, IL	1399	Ŭ
Empire Glass, Inc.; Bronx, NY Falconer Glass Industries, Inc.; Falconer, NY	709	ŭ
Flex-Temp, Inc.; Irving, TX	872	Ü
Ford Motor Company; Dearborn, MI	730	U
Fulton Glass Industries, Inc.; Red Oak, GA	1132	U
Gateway Industries; Rogers, AR	1357	U
General Glass Corporation; Denver, CO	1182	U
Glass Tempering Service, Inc.; Detroit, MI	1238	U
Glasstemp, Inc.; Bensenville, IL	1382	U
Hamilton Glass Products, Inc.; Vincennes, IN	57	U
Howe-Martz Glass Company; Detroit, MI	1268	U
LOF Glass; Laurinburg, NC	847	U
Nashville Tempered Glass Corp.; Nashville, TN	1417	U

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED TRANSPARENT GLASS		
1/4 inch tempered transparent glass – continued		
Ohio Plate Glass Company, Jefferson, TX	1287	U
Ohio Plate Glass Company, Lewisburg, OH	186	บ
PPG Industries, Inc.; Dallas, TX	402	U
PPG Industries, Inc.; Ford City, PA	70	Ū
PPG Industries, Inc.; Hunt Valley, MD	455	Ū
PPG Industries, Inc.; Miami, FL	194	Ü
San Jacinto Glass Company; Houston, TX	1294	Ü
Shaw Glass Company, Inc.; South Easton, MA	1035	Ü
Southern Wholesale Glass, Inc.; Marietta, GA	1231	Ü
Spectrum Glass Company; Clinton, NC	1081	Ü
Sunglas Products, Inc.; Claremore, OK	1367	Ü
Temp-Tech Industries, Inc.; Chicago, IL	986	Ü
Tempered Glass, Inc.; Atlanta, GA	863	U
Tempered Glass Corporation; Tampa, FL	832	Ü
Tempglass Eastern, Inc.; Norcross, GA	982	U
Tempglass, Inc.; Perrsburg, OH	1420	Ü
, - , - , - , - , - , - , - , - , - , -	1044	Ü
Tempglass Southern, Inc.; Grand Prairie, TX	137	U
Texas Tempered Glass Company; Houston, TX	· ·	=
Traco (Three Rivers Aluminum Company); Warrendale, PA	1311	U
Tuf-flex Glass; Union City, CA	1205	U
Viracon, Inc.; Owatonna, MN	1404	U
Virginia Glass Products Corporation; Martinsville, VA	14	U
5/16 inch tempered transparent glass		
LOF Glass; Laurinburg, NC	848	U
Spectrum Glass Company; Clinton, NC	1082	U
TEMPERED TRANSPARENT GLASS		
3/8 inch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, CA	639	U
AFG Industries, Inc.; Greenland, TN	90	U
Colonial Mirror and Glass Corporation; Brooklyn, NY	1166	U
Downey Glass Company, Inc.; Los Angeles, CA	814	U
Empire Glass, Inc.; Bronx, NY	1400	U
Falconer Glass Industries, Inc.; Falconer, NY	1280	บ
Flex-Temp, Inc.; Irving, TX	873	U
Fulton Glass Industries, Inc.; Red Oak, GA	1212	U
Glasstemp, Inc.; Bensenville, IL	1383	U
Howe-Martz Glass Company, Detroit, MI	1269	U
LOF Glass; Laurinburg, NC	849	U
San Jacinto Glass Company; Houston, TX	1295	U
Shaw Glass Company, Inc.; South Easton, MA	1036	U
Southern Wholesale Glass, Inc.; Marietta, GA	1232	U
Spectrum Glass Company; Clinton, NC	1083	U
Sunglas Products, Inc.; Claremore, OK	1375	U
Tempered Glass, Inc.; Atlanta, GA	865	U
Tempered Glass Corporation; Tampa, FL	833	U
Tempglass, Inc.; Perrysburg, OH	594	Ü
Tempglass Eastern, Inc.; Norcross, GA	1058	ũ
Tempglass Southern, Inc.; Grand Prairie, TX	1045	Ū
Texas Tempered Glass Co.; Houston, TX	1408	Ū
Traco (Three Rivers Aluminum Company); Warrendale, PA	1312	Ü
Tuf-flex Glass; Union City, CA	881	Ü
Virginia Glass Products Corporation; Martinsville, VA	93	Ü
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	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED TRANSPARENT GLASS		
1/2 inch tempered transparent glass		
ACI Glass Products, Inc.; Santa Fe Springs, CA	640	U
Colonial Mirror and Glass Corporation; Brooklyn, NY	1167	U
Downey Glass Company, Inc.; Los Angeles, CA	815	U
Empire Glass, Inc.; Bronx, NY	1401	U
Falconer Glass Industries, Inc.; Falconer, NY	711	U
Flex-Temp, Inc.; Irving, TX	874	U
Fulton Glass Industries, Inc.; Red Oak, GA	1134	U
Glasstemp, Inc.; Bensenville, IL	1384	U
Howe-Martz Glass Company, Detroit, MI	1270	U
LOF Glass; Laurinburg, NC	850	U
San Jacinto Glass Company; Houston, TX	1296	U
Shaw Glass Company, Inc.; South Easton, MA	1037	U
Southern Wholesale Glass, Inc.; Marietta, GA	1406	U
Spectrum Glass Company; Clinton, NC	1084	U
Tempered Glass, Inc.; Atlanta, GA	866	U
Tempered Glass Corporation; Tampa, FL	834	U
Tempglass, Inc.; Perrysburg, OH	595	U
Tempglass Eastern, Inc.; Norcross, GA	1059	U
Tempglass Southern, Inc.; Grand Prairie, TX	1046	U
Texas Tempered Glass Company; Houston, TX	669	
Traco (Three Rivers Aluminum Company); Warrendale, PA	1313	U
Tuf-flex Glass; Union City, CA	882	Ū
Virginia Glass Products Corporation; Martinsville, VA	94	Ū
5/8 inch tempered transparent glass		
Spectrum Glass Company; Clinton, NC	1085	U
3/4 inch tempered transparent glass		
Colonial Mirror and Glass Corporation; Brooklyn, NY	1341	U
Empire Glass, Inc.; Bronx, NY	1402	U
Falconer Glass Industries, Inc.; Falconer, NY	712	U
Spectrum Glass Company; Clinton, NC	1086	Ü
Spectrum Grass Company; Crinton, NC	1080	U
TEMPERED PATTERN GLASS		
1/8 inch tempered pattern glass (shallow patterns)		
ACI Glass Products, Inc.; Santa Fe Springs, CA	1226	U
AFG Industries, Inc.; Greenland, TN	587	U
AFG Industries, Inc.; Kingsport, TN	141	U
Downey Glass Company, Inc.; Downey, CA	808	U
Gateway Industries; Rogers, AR	1358	U
Vidrierias De Llodio, S. A.; Alava, Spain	1407	U

	SGCC NO.	MAX. SIZE CERTIFIED
TEMPERED PATTERN GLASS 1/8 inch tempered pattern glass (medium patterns)		
Downey Glass Company, Inc.; Downey, CA	809	U
1/8 inch tempered pattern glass (shallow patterns)		
AFG Industries, Inc.; Kingsport, TN	1414	U
5/32 inch tempered pattern glass (shallow patterns)		
Gateway Industries; Rogers, AR	1359	U
Gemtron Corporation; Sweetwater, TN	2001	U
Hamilton Glass Products, Inc.; Vincennes, IN	1386	Ü
Southern Wholesale: Marietta, GA	1428	ŭ
Vidrierias De Llodio, S. A.; Alava, Spain	1331	U
3/16 inch tempered pattern glass (shallow patterns)		
AFG Industries, Inc.; Greenland, TN	1139	U
AFG Industries, Inc.; Kingsport, TN	1143	Ü
Downey Glass Company, Inc.; Downey, CA	810	Ü
Downey Glass Company, Inc.; Los Angeles, CA	1114	U
Falconer Glass Industries, Inc.; Falconer, NY	1330	U
Fulton Glass Industries, Inc.; Red Oak, GA	1327	U
Hamilton Glass Products, Inc.; Vincennes, IN	1387	
Howe-Martz Glass Company, Detroit, MI	1344	U
Shaw Glass Company, Inc.; South Easton, MA	1299	U
Tempered Glass Corporation; Tampa, FL	1329	U
Tempglass Eastern, Inc.; Norcross, GA	1338	U
Virginia Glass Products Corporation; Martinsville, VA	1275	U
3/16 inch tempered pattern glass (deep patterns)		
Gateway Industries; Rogers, AR	1394	U
7/32 inch tempered pattern glass (shallow patterns)		
Downey Glass Company, Inc.; Downey, CA	811	U
Downey Glass Company, Inc.; Los Angeles, CA		
	817	U
Flex-Temp., Inc.; Irving, TX	1440	U
Shaw Glass Company, Inc.; South Easton, MA	1071	U
Tempered Glass Corporation; Tampa, FL	1210	U
LAMINATED GLASS 3/16 inch laminated transparent glass		
Lear Siegler, Inc.; Wichita, KS	1360	U
LAMINATED PATTERN GLASS 3/16 inch laminated pattern glass (shallow patterns)		
Lear Siegler, Inc.; Wichita, KS	1343	U
0.080 through 0.125 inch acrylic		
Flex-O-Glass, Inc.; Dixon, IL	118	U

PROCEDURAL GUIDE

FOREWORD

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

The provisions of Federal Standard 16 CFR 1201 provide a sound technical basis for the required high level of safety. With the addition of independent administration plus periodic, routine sampling and product evaluation, a program of product certification is developed that provides an independent third party certification and testing program. The Certification Program described here is predicated upon the concept of independent and impartial administration of the certification procedures which are incorporated in the SGCC license agreement.

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

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

GENERAL INFORMATION

THE CERTIFICATION CONCEPT

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

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

These regulations are covered in a separate certified products directory.

WHO CAN BECOME A LICENSEE?

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

WHO CONDUCTS THE PROGRAM?

The Safety Glazing Certification Council, a non-profit corporation, is the sponsor of this certification program. SGCC supervises the certification program under which the administrator periodically checks and reports compliance of the manufacturers of products having the SGCC certification label with the requirements of 16 CFR 1201.

ADMINISTRATION

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

HOW CAN YOU BECOME A LICENSEE?

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

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

After receipt of all of the above items, SGCC sends to the licensee a notice of product certification which includes a SGCC certification number. This number **must** be incorporated into the permanent label to be affixed on each piece of certified safety glazing material. The certified item will then be listed in the next published certified products directory.

HOW THE CERTIFICATION PROGRAM WORKS

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

SGCC recognized independent testing laboratories conduct all tests. All laboratories, whose test reports are utilized by this certification program, shall be approved by the SGCC certification committee. Initial or prototype tests are performed at the testing laboratory selected by the licensee. Routine evaluation samples are tested by the testing laboratory selected by the administrator.

ADMINISTRATOR AUTHORIZES CERTIFICATION

As sole judge of compliance with applicable standards, the administrator authorizes a product which has been approved to be listed in the certified products directory.

Licensees label safety glazing material with the assigned SGCC number.

PRODUCTS LISTED IN CERTIFIED PRODUCTS DIRECTORY

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

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

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

COMPLIANCE SAFEGUARDS

HOW IS COMPLIANCE ASSURED?

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

CHALLENGING A CERTIFIED PRODUCT

Complaints of non-compliance from any source will be investigated promptly by SGCC upon receipt of the complaint in writing along with an appropriate surety deposit. A minimum surety deposit of \$1,000 will be required for each complaint of non-compliance. The surety deposit will be assessed at the rate of \$350 per man day plus the reasonable costs of travel and the maintenance entailed in resolving such incidents. Refunds of part or all of the surety deposit will be made when applicable. All costs involved will be paid from the complainant's surety deposit, unless the investigation proves non-compliance, in which case all costs will be borne by the licensee found to be in non-compliance.

WITHDRAWAL OF CERTIFIED PRODUCT

Any product which has been certified may be **voluntarily withdrawn** from the certification program by the licensee at any time.

COSTS

WHAT DOES THE PROGRAM COST?

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

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

CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS

LICENSE AGREEMENT

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

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

EFFECTIVE DATE, DURATION AND TERMINATION

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

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

Upon proper executive and acceptance by SGCC the **test release bond** permits the continuation of certification of an item even though the production facilities are shut down. If the licensee does not notify SGCC within one week of the resumption of production the bond is forfeited to SGCC.

ADMINISTRATIVE SERVICE AGREEMENT

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

- a) samples certified products routinely
- b) has the right to witness any and all testing required by the program
- c) reviews all test reports in order to determine compliance of the certified product with the specifications
- d) inspects and approves all in-plant and test laboratory test facilities for use in this certification program (test laboratories are "recognized" or approved by the SGCC certification committee)
- e) publishes and mails the SGCC certified products directory on or about each January 1 and July 1
- f) handles all routine clerical duties of SGCC with respect to certification matters
- g) acts as SGCC treasurer, invoice licensees, maintaining a bank account and dispersing funds (fiscal reports are made to the SGCC certification committee)
- h) furnishes all testing except for prototype tests
- i) attends all scheduled meetings of the SGCC certification committee and
- j) in all of its actions acts in the name of SGCC

PROCEDURAL GUIDE

This guide outlines program procedures in accordance with the provisions of the license agreement and the administrative service agreement, for the guidance of thos concerned with the procedural details of the certification program. It covers the steps to be taken in any given procedural situation in the interest of equitable and uniform treatment of licensees and the preservation of the integrity of the certification program.

CERTIFIED PRODUCTS DIRECTORY

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

CERTIFICATION LABEL

This certification mark is permanently affixed to each piece of certified safety glazing material by the licensee. It contains a number that refers to the listing in the certified products directory. The listing then provides a complete product description including the company name, plant location, etc.

PROGRAM RESPONSIBILITY

The SGCC board of directors has overall responsibility for the well being and acceptance of the certification program by the industry, building officials and the public. It also bears corporate legal responsibility.

The SGCC certification committee has the responsibility for the general procedure and policy pertaining to operation of the certification program. As a part thereof, it:

- a) establishes certification "guidelines"
- b) determines the applicability of the specifications in a specific situation where a question is raised by a licensee or the administrator
- c) approves test laboratories
- d) determines which of the specifications are to be designated effective for the purposes of product certification and the date or dates on which they become effective
- e) recommends to the SGCC board of directors changes to be made in the license agreement

COMMUNICATIONS

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

Mr. Richard L. Morrison, SGCC President c/o Ford Motor Company Glass Division 300 Renaissance Center; P.O. Box 43343 Detroit, MI 48243

Telephone: 716-665-6422

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

Mr. Claude F. Robb Administrative Manager ETL Testing Laboratories, Inc. Route 11 - Industrial Park P.O. Box 2040 Cortland, NY 13045 Telephone: 607-753-6711

CERTIFICATION GUIDELINES AND INTERPRETATIONS

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

GENERAL

G. 1

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

G.2

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

G.3

None

G.4

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

G.5

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

- G. 6
- a) All test specimens, except for prototype samples, must be marked with the correct SGCC permanent label prior to testing in order to be considered a valid sample. The administrator shall construe the absence of a correct permanent label as a failure to comply with the specifications. In such cases of noncompliance, Sections a, c, and e of G.11 shall be followed.
- b) The label shall contain the correct SGCC number, the nominal thickness, and reference to the 16 CFR 1201 standard in the following minimum form: 16 CFR 1201 and the category to which it pertains.

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

- c) The testing laboratory is to advise the administrator of any specimen that does not in fact bear the correct SGCC permanent label and will be instructed by the administrator not to test but hold the sample.
- d) The administrator will inform the licensee of the situation and direct (by letter) the testing laboratory to commence testing no later than 30 days hence. Until that time the testing laboratory is instructed to make these specimens available to the licensee at their convenience (the specimens are to remain at the testing laboratory) in order that the licensee may point out or show them that in fact the SGCC permanent label is correct or agree that in fact the correct SGCC permanent label is not present. In cases of any dispute between the licensee and the testing laboratory the decision of the administrator shall be final. The licensee shall not mark specimens after receipt at the testing laboratory.
- G.7 None
- G.8

After initial compliance with a sample size as stated in 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 in the standard 16 CFR 1201 are exposed to selection for testing.

G.9

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

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G. 10

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

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

G. 11

- In cases where a routine evaluation sample fails to comply with the specifications:
- a) Written notice and an invoice shall be sent to the licensee by the administrator stating that within 30 days from the date of such notice the licensee must submit a retest sample to the testing laboratory designated by the administrator.

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

- b) Within 3 months the administrator shall obtain an additional random sample for evaluation (in addition to the routine evaluation sample obtained twice a year). The administrator shall be certain that this additional sample is of recent production.
- c) At the option of the administrator, specimens submitted under a) above shall be either prototype size and pattern or identical to those previously sampled and of recent production.
- d) Certification shall be removed if the additional random sample obtained in b) above fails to comply with the Specifications.
- e) All costs related to G.11 are to be borne by the licensee.

G. 12

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

G.13

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

G. 14

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

G.15

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

G. 16

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

G. 17

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

G. 18

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

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

G. 19

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

G. 20

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

G 21

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

G.22

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

- a) The nominal thickness of the proposed alternate and all aspects other than pattern are the same as the certified product.
- b) The administrator of the certification program is provided with a copy of a prototype test from an approved laboratory, showing satisfactory compliance with the test requirements of 16 CFR 1201 for each alternate pattern proposed.
- c) The certification committee is provided with a 6 by 6 inch smaple of each proposed alternate for its record and file. This must be sent to the administrator of the certification program.

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

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

G.23

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

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

- f) Failure of the licensee to comply with any of the preceding shall be the basis for removal of certification from the affected products.
- G. 24

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

G.25

None

G.26

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

G.27

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

G.28

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

G. 29

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

G.30

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

G.31

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

G.32

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

TEMPERED TRANSPARENT GLASS

T.1

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

T.2

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

T.3

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

T 4

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

Certification of any nominal thickness of tempered safety plate, float or sheet glass will also cover the other two types. 16 CFR 1201 does not require the permanent label on tempered safety glass to specify which type of glass is used. Nor is it required that the test specimens be identified in this regard.

TEMPERED PATTERN GLASS

TP.1

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

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

Pattern depth class	Ratio
Shallow pattern glass Medium pattern glass	0.90 or above 0.80 through 0.89
Deep pattern glass	0.79 or below

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

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

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

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

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

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

TP.3

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

TP.4

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

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

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

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

L.2

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

LAMINATED GLASS

1..3

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

1.4

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

L.5

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

L.6

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

1 7

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

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

L.8

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

1 9

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

PLASTICS - GENERAL

P. 1

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

P.2

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

P.3

The following thickness tolerances shall be used for certification purposes:

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

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

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

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

P.4

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

P.5

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

PLASTICS - EXTERIOR USE

PE. 1

Sheet plastics for exterior use must comply with 16 CFR 1201.4(e)(2)(ii)(A) accelerated weathering test Table 1 or simulated weathering test. The equipment shall be an apparatus commercially known as a "Weather-Ometer" or its function equivalent incorporating a carbon arc. It shall be operated in accordance with "Standard Recommended Practice for Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Nonmetallic Materials", ASTM G 23069, March 21, 1969, as augmented for plastics (for plastic test specimens only) by "Standard Recommended Practice for Operating Light-and-Water-Exposure Apparatus (Carbon-Arc Type) for Exposure of Plastics", ASTM D 1499-64, August 31, 1964. Specimens shall be mounted and control specimens shall be used in the manner specified in the Standard at section 1201.4(d)(2)(ii)(A) or (B), as appropriate. An appropriate water spray cycle shall be used. The specimens shall be exposed in the Weather-Ometer for a period of time which, irradiation equivalent to the accumulated ultraviolet irradiation of 2.000 plus or minus 1 hours of exposure in a twin enclosed carbon-arc Weather-Ometer. Evaluate the test results by using the test criteria set forth in the Standard at section 1201.4(e)(2)(ii)(A) or (B), as appropriate.

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

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

PE.2 None

PE.3

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

PE.4

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

PLASTICS - INDOOR USE ONLY

PI.1

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

PI.2

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

PI.3

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

ORGANIC COATED GLASS

AG 1

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

AG 2

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

AG.3

None

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

Consumer Products Safety Commission 5401 Westbard Avenue Bethesda, MD 20016

* * * * *

SGCC APPROVED TESTING LABORATORIES APPROVED FOR TESTING IN THE ANSI AND CPSC CERTIFICATION PROGRAMS

Architectural Testing, Inc. Two Interchange Place

York, PA 17402-9899

Attention: Mr. Bruce W. Croak

Telephone: 717-846-7700

Bowser-Morner, Inc.

420 Davis Avenue; Box 51

Dayton, OH 45401

Attention: Mr. Robert J. Rosencrans

Telephone: 513-253-8805

ETL Testing Laboratories, Inc.

5855 P-Oakbrook Parkway Norcross, GA 30093

Attention: Mr. William D. Penuel

Telephone: 404-446-7294

ETL Testing Laboratories, Inc.

Route 11 - Industrial Park

Cortland, NY 13045

Attention: Mr. Claude F. Robb

Telephone: 607-753-6711

Inspection and Research Laboratory, Inc.

4749 West State Street; Building H

Ontario, CA 91761

Attention: Mr. H. Stanley Espenship, P.E.

Telephone: 714-591-1789

Miami Testing Laboratory, Inc.

1640 West 32nd Place Hialeah, FL 33012

Attention: Mr. James W. Bailey Telephone: 305-822-1141

Northwest Laboratories 1530 First Avenue South

Seattle, WA 98134

Attention: Mr. Alan Potter Telephone: 206-622-0680

Patzig Testing Laboratories Company, Inc. (ANSI ONLY)

3922 Delaware Avenue Des Moines, IA 50313

Attention: Mr. Byron A. Marks, P.E. Telephone: 516-266-5101

Southwestern Laboratories

2900 Cullen Street; P.O. Box 1379

Fort Worth, TX 76101

Attention: Mr. Wayne Tessener Telephone: 817-332-5181

United States Testing Company, Inc.

1415 Park Avenue Hoboken, NJ 07030

Attention: Mr. James E. Fuller Telephone: 201-792-2400

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