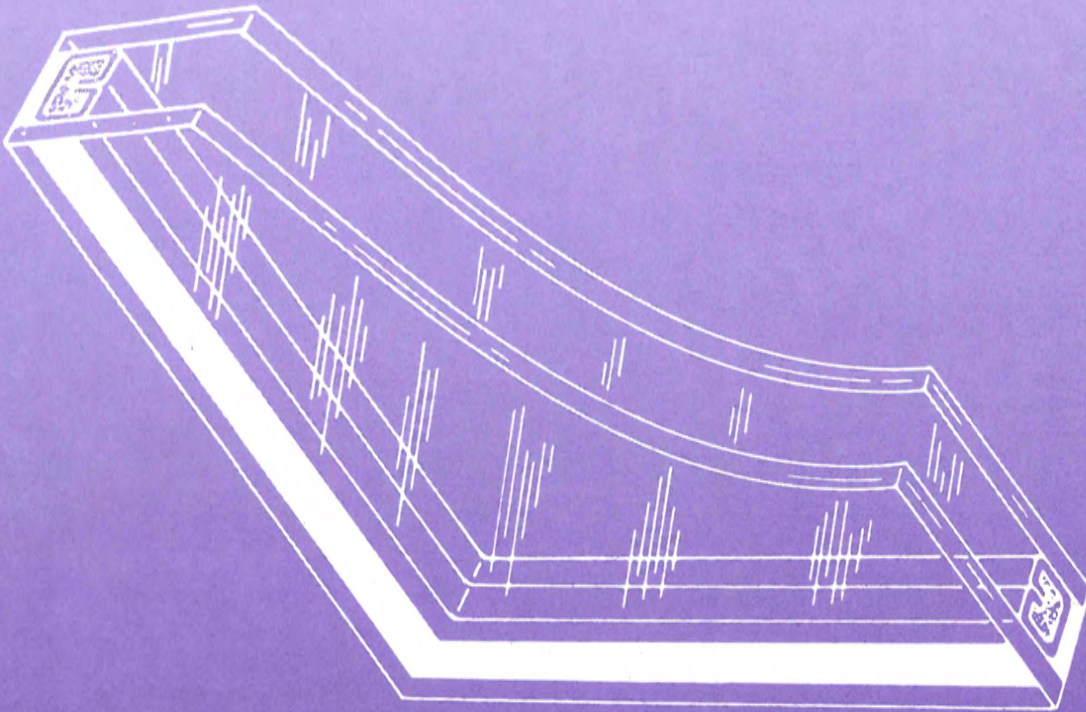


CERTIFIED PRODUCTS DIRECTORY

SEALED INSULATING GLASS
AUGUST 1, 1997



INSULATING GLASS

IGCC®

CERTIFICATION COUNCIL

CREDIBILITY IN INDUSTRY CERTIFICATION THROUGH ACTIVE PUBLIC PARTICIPATION

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PROGRAM CONCEPT

Manufacturers of sealed insulating glass units, consumers, specifiers, and others who are responsible for or concerned with the quality and performance of products purchased in the public interest, recognizing a need for a sound product testing and performance certification program, have jointly established the Insulating Glass Certification Council (IGCC). All IGCC Meetings are open to the public and public participation is encouraged.

IGCC is a nonprofit organization which sponsors and directs a program of periodic accelerated laboratory testing and unannounced plant inspections to insure continuing product performance through specified standards. The testing specifications used are outlined in "ASTM Specification E774-88 for Sealed Insulating Glass." This specification basically classifies sealed units into three categories; C, CB or CBA, depending upon durability in the accelerated testing. It is the policy of IGCC to remain flexible in referencing specifications and test methods in order to best reflect changing technology and new developments.

IGCC's responsibilities through its administrator are to see that periodic inspections and independent laboratory tests are performed on participating manufacturers' products and to validate the right of that manufacturer to use the IGCC label on his product or products information claims.

Management and control of the program is vested in a Board of Governors made up equally of industry and public interest members. The public interest representatives are empowered with 50 percent of the voting rights, and can veto any actions, regardless of the number present at a meeting. This insures against industry dominance of IGCC action.

The program is under the supervision of a qualified administrator who is not affiliated with any manufacturer of insulating glass, material supplier, or participating testing laboratory, and is hired by and responsible to the Insulating Glass Certification Council. The manufacturers of the products listed herein have certified that the labeled materials comply with the performance characteristics established by ASTM E774-88. The compliance of the manufacturers with the requirements of that specification is validated periodically by the IGCC administrator through inspections and testing by an independent testing laboratory under his direction.

Every manufacturer of insulating glass is eligible and encouraged to apply for the right to use the IGCC label. However, permission to use the label is not granted until an independent laboratory test verifies compliance with the requirements. Once all requirements have been met, each product is assigned an IGCC number to identify the product, performance class, and the factory in which it is made. Throughout the year, IGCC requires the manufacturer to certify that the labels are being used only on units that are produced in the same manner and with the same materials as the tested specimens. Based upon these declarations, IGCC authorizes continued use of the IGCC label and the product listing published in this directory.

The Insulating Glass Certification Council wishes to recognize the substantial contributions made by the Safety Glazing Certification Council; the Sealed Insulating Glass Manufacturers Association, American Society of Testing and Materials, The National Bureau of Standards, FHA, HUD, Public Interest Persons, the Industry, and particularly consumers without input from such a broad cross-section, this program would not be possible.

CERTIFIED PRODUCTS

LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT	
ACI Distribution 12900 Nicholson Rd PO Box 815547 Dallas TX 75381-5547 214-484-3691 ACI 140 IGCC® CBA '97	IGCC-703 IGCC-1106 IGCC-1239	CBA CBA CBA	NYK NYK NYK	U U U	AA AA GS	MS MS MS	PIB/S PIB/HMB PU
ACI Distribution 2765 La Fayette Street Santa Clara CA 95050 408-748-2120 IGCC® 1355 CBA 97	IGCC-1355	CBA	NYK	U	AA	MS	PIB/S
ACI Distribution 3225 S 116th Ste 133 Seattle WA 98158 206-244-0727 ACI 197 IGCC® CBA '97	IGCC-1170 IGCC-1171 IGCC-1172	CBA CBA CBA	PLK/BC BC/PLK PLK/BC	SCF U U	GS AA AA	MS MS MS	PU PU PU/PIB
Acorn Window Systems Inc 42 Cole St Quincy MI 49082 517-639-8731 AWS IGCC® CBA '97	IGCC-1145 IGCC-1314	CBA CBA	NYK NYK	U U	AA TPS	MS DM	MPS HMB
AFGD, Div of AFG Ind Ltd 75 Doney Crescent Concord, Ontario L4K 1P6 CANADA 905-669-1930 AFG SEALITE IGCC® CBA '97	IGCC-679 IGCC-1207 IGCC-1208 IGCC-1209	CBA CBA CBA CBA	BC/ALJ/L BC BC BC	U/C U U U	MA MA AA AA	MS MS MS MS	PIB/S PIB/PS PIB/PS PIB/S
Advanced Glass Systems Inc. 2175 Kumry Rd PO Box 70 Trumbauersville PA 18970 215-536-0333 AGP IGCC® CBA '97	IGCC-1287	CBA	BC/NC	U	-	BSS	SS/S
Alpen Inc. 5400 Spine Rd Boulder, CO 80301 303-530-1150 ALP IGCC® CBA '97	IGCC- 880	CBA	PLK/BC	SCF	ST	MS/SG	PU
Alside Window Co-Midwest 3820 44th Ave S W Cedar Rapids IA 52401 319-390-4237 AWCMW IGCC® CBA '97	IGCC-1133	CBA	BC/NK	U	TPS	DM	HMB
Alside Window Co-Central 3773 State Road Cuyahoga Falls OH 44309 330-922-2119	IGCC-1338	CBA	NK	U	TPS	DM	HMB

CERTIFIED PRODUCTS

LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Alside Window Co S E 3800 Farmgate Rd Kinston NC 28501 919-527-5050 AWCSE IGCC® CBA '97	IGCC-1148 CBA	NK	U	TPS	DM	HMB
American Flat Glass Dist 1201 Hwy 67 E Alvarado TX 76009 817-477-1144 AFGD 24 IGCC® CBA '97	IGCC-1025 CBA	NYK	U	AA	MS	HMB/PS
American Flat Glass Dist 11950 E 33 Ave Aurora CO 80010 303-371-1151 AFGD 21 IGCC® CBA '97	IGCC-1259 CBA	NYK	U	AA	MS	PIB/PS
American Flat Glass Dist 3350 Ball St Birmingham AL 35224 205-841-6785 AFGD 03 IGCC® CBA '97	IGCC-1331 CBA IGCC-1332 CBA	NYK NYK	U U	AA AA	MS MS	MPS PIB/MPS
American Flat Glass Dist 575 Currant Rd Fall River MA 02720 508-675-9220 AFGD 7 IGCC® CBA '97	IGCC-1156 CBA IGCC-1339 CBA IGCC-1340 CBA	NYK/ASM NYK NYK	U U U	AA AA AA	MS MS MS	PIB/S PIB/MPS MPS
American Flat Glass Dist 148 Flint Hill Road Fort Mill SC 29715 800-866-2341 AFGD 4 IGCC® CBA '97	IGCC-1211 CBA IGCC-1215 CBA	NYK/ASM NYK/ASM	U U	AA AA	MS MS	PS PIB/PS
American Flat Glass Dist 4520 Willow Pkwy Cuyahoga Heights OH 44125 216-341-2110 AFGD 2 IGCC® CBA '97	IGCC-1342 CBA IGCC-1343 CBA IGCC-1353 CBA	NYK NYK NYK	U U U	AA AA AA	MS MS MS	MPS PIB/MPS MPS/S
American Flat Glass Dist 9288 Sutton Pl Hamilton OH 45011 513-874-5772 AFGD 06 IGCC® CBA '97	IGCC- 854 CBA IGCC-1155 CBA IGCC-1241 CBA	NYK NYK NYK	U U U	AA AA AA	MS MS MS	PS PIB/PS PIB/S
American Flat Glass Dist 3200 Austell Rd Marietta GA 30060 404-434-2041 AFGD 1 IGCC® CBA '97	IGCC-1324 CBA IGCC-1326 CBA	NYK NYK	U U	AA AA	MS MS	MPS PIB/MPS
American Flat Glass Dist 6600 Suemac Pl Jacksonville FL 32254-2792 904-786-6611 AFGD 02 IGCC® CBA '97	IGCC-1344 CBA	NYK	U	AA	MS	MPS

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LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
American Flat Glass Dist 2522 Westcott Blvd Knoxville TN 37923 423-691-2040 AFGD 05 IGCC® CBA '97	IGCC-1347	CBA	NYK	U	AA	MS MPS
American Flat Glass Dist 6200 Gorman Rd Richmond VA 23231 804-222-0120 AFGD 10 IGCC® CBA '97	IGCC-957 IGCC-1085 IGCC-1327	CB CBA CBA	NYK NYK NYK	U U U	AA AA AA	MS MS MS MPS PIB/MPS PIB/S
American Flat Glass Dist 803 Prestige Pkwy Scotia NY 12302 518-374-3812 AFGD 09 IGCC® CBA '97	IGCC-1349	CBA	NYK	U	AA	MS PIB/MPS
Arch Aluminum & Glass L.C. 7701 W New York St Indianapolis IN 46214 800-876-0646	IGCC-1323	CBA	NYK	U	AA	MS/SG PIB/PS
Arch Aluminum & Glass L.C. 540 Industrial Court West Villa Rica GA 30180 770-944-2724	IGCC-1292	CBA	BC/NYK	U	AA	MS PIB/S
Arch Aluminum & Glass L.C. 3320-B Maggie Blvd Orlando FL 32811 407-425-8367	IGCC-1299	CBA	NYK	U	AA	DM PS/PIB
Assurance Glass Co Selfield Ind Pk PO Box 1452 Selma AL 36702 334-875-1900 AG IGCC® CBA '97	IGCC-420 IGCC-1248	CBA CBA	NYK NYK	U U	MA MA	MS MS PIB/PS PIB/S
J E Berkowitz Inc Route 47 Westville NJ 08093 609-456-7800 JEB IGCC® CBA '97	IGCC-1052 IGCC-1138 IGCC-1139 IGCC-1140	CBA CBA CBA CBA	NYK BC/WL BC/WL NYK	U U U U	AA AA AA AA	MS MS MS MS PIB/S PIB/S PIB/PS PIB/PS
Capitol Glass & Aluminum Corp 8017 Edith Blvd Albuquerque, NM 87113 505-898-1460 CGAC-A IGCC® CBA '97	IGCC-1285	CBA	PLK	U	MA	- PIB/MPS
Capitol Aluminum & Glass Corp 1276 W Main St Bellevue OH 44811 419-483-7050 CAG-HM IGCC® CBA '97	IGCC-884	CBA	NYK	SCF	GS	MS PU

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LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Capitol Glass & Aluminum Corp 3515 S 300 W Salt Lake City UT 84115 801-268-2521 CGAC IGCC® CBA '97	IGCC-1132	CBA	PLK	U	AA	MS/SG PIB/MPS
Cardinal IG Iowa 25 N PO Box 99 Greenfield IA 50894 515-343-7113 CARDINAL 2 IGCC® CBA '97 or CIG 2 IGCC® CBA '97	IGCC-1030 IGCC-1276	CBA CBA	BC/ALK/S/AP BC/ALK	U/C U	MA AA	MS MS PIB/S PIB/S
Cardinal IG 7115 W Lake St Minneapolis MN 55426 612-929-0317 CARDINAL 1 IGCC® CBA '97 or CIG 1 IGCC® CBA '97	IGCC-1033 IGCC-1284	CBA CBA	BC/PLK PLK	U U	SS/AP AA	MS/SG MS PIB/S PIB/S
Cardinal IG 1011 E Madison St Spring Green WI 53588 608-588-7415 CARDINAL 3 IGCC® CBA '97 or CIG 3 IGCC® CBA '97	IGCC-1036	CBA	BC/PLK	U	SS/AP	MS/SG PIB/S
Cardinal IG 1620 Town Line Rd Tomah WI 54660 608-372-3300 CARDINAL 4 IGCC® CBA '97 or CIG 4 IGCC® CBA '97	IGCC-1039 IGCC-1295	CBA CBA	BC/PLK/ASM BC/PLK/ASM	U/C U/C	SS AA	MS MS PIB/S PIB/S
Classic Glass of Battle Creek Inc 21472 M-37 Battle Creek MI 49017 616-968-2711 CLASSIC GLASS IGCC® CBA '97	IGCC-1004 IGCC-1010 IGCC-1249	CBA CBA CBA	NYK NYK NYK	U U U	AA/AP AA/AP AA	MS MS MS PIB/PS PIB/S PIB/PS
Croft Metals Inc Hwy 71 PO Drawer 90 Lumber Bridge NC 28357 910-843-3391 CMI 92-2 IGCC® CBA '97	IGCC-1069 IGCC-1275	CBA CBA	BC/NYK/ASM NYK/ASM	U U	BSS AA	- MS BSS HMB
Croft Metals Inc PO Box 826 McComb MS 39648 601-783-3188 CMI 92-1 IGCC® CBA '97	IGCC-1131 IGCC-1270	CBA CBA	BC/NK NK	U U	BSS AA	- MS BSS HMB

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LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Crystal Window & Door Systems 131-40 Maple Ave Flushing NY 11355 718-961-7300 CRYSTAL W & D IGCC® CBA '97	IGCC-1236 CBA	NYK	U	AA	MS	HMB
Curved Glass Distributors 72 Chappel St Derby CT 06418 203-735-4665 CGD IGCC® CBA '97	IGCC-1063 CBA	NYK	U	AA	MS	PIB/PU
Custom Glass Products Inc 5906 Mesker St PO Box 590 Schofield WI 54476 715-359-2252 CGP IGCC® CBA '97	IGCC-745 CBA	BC/NYK/AP	U	AA	MS	PIB/PU
Custom Glass Prod of Carolina 1475 Harrison Rd PO Box 2049 Salisbury NC 28144 704-633-4946 CGPC IGCC® CBA '97	IGCC-918 CBA	BC/NYK	U	AA	MS	PIB/PU
DeLuxe Insulated Glass Inc 4375 N Sellers St Indianapolis IN 46226 317-547-3564 IGOI IGCC® CBA '97	IGCC-1016 CBA	NYK	U	AA	MS	PIB/PS
Downey Glass 5631 Ferguson Dr Los Angeles CA 90022 213-887-6000 D.G. IGCC® CBA '97	IGCC-1311 CBA	PLK	U	-	MS	PS
Dykstra Brothers Glass Co 4257 30th St Burnips MI 49314 616-896-8341 DYK IGCC® CBA '97	IGCC-729 CBA IGCC-732 CBA	NYK/ASM NYK	U U	AA AA	MS MS	PIB/PS PIB/S
Edge Seal Technologies 45 Karago Ave Boardman OH 44512 216-726-2880	IGCC-1200 CBA	BC/ASM	U	TPS	DM	HMB
Edge Seal technologies Inc 7850 Northfield Rd Walton Hills OH 44512 216-726-2880 EST IGCC® CBA '97	IGCC-1268 CBA	BC	U	TPS	DM	HMB

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LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Floral Glass Ind Inc 224 Sandbank Rd PO Box 882 Cheshire CT 06410 203-272-2211 INSULA 2 IGCC® CBA '97	IGCC-801 CBA	NYK/AP/ASM	U	MA/AP	MS	PIB/S
Floral Glass & Mirror Inc 895 Motor Pkwy Hauppauge NY 11787 516-234-2200 INSULA 1 IGCC® CBA '97	IGCC-881 CBA	BC/NK/W	U	MA	MS	PIB/S
Four Seasons Solar Products 5005 Veterans Memorial Pkwy Holbrook NY 11741 516-563-4000 FSSP 968 90996 IGCC® CBA	IGCC-986 CBA	NYK	SCF	GS	MS	HMB
Galaxy Mfg Co of CNY Inc 109 Monarch Dr Liverpool NY 13088 315-451-5353 GALAXY IGCC® CBA '97 or COMFORT WINDOW	IGCC-691 CBA	NYK	U/C	AA	MS	PU
Gardner Glass Products PO Box 59 Newington VA 22122 703-550-7982 INSULVUE IGCC® CBA '97	IGCC- 868 CBA	NYK	U	AA	MS	PIB/PU
Gentek Building Products 4545 Carolina Ave Bldg F Richmond NA 23222 804-321-1793 GBP IGCC® CBA '97	IGCC-1175 CBA	BC	U/C	BSS	-	BSS
Glasmont Corp 4635 W 84th St Ste 100 Indianapolis IN 46268 317-876-1155 GC IGCC® CBA '97	IGCC-653 CBA IGCC-917 CBA IGCC-1203 CBA	NYK NYK BC/NK	U U U	MA MA/AP TPS	MS MS DM	PIB/S PIB/PU PIB/PU
GlasWerks Phx, LLC 4625 S 32nd St Phoenix AZ 85040 602-243-4277	IGCC- 856 CBA	NYK	U	MA	MS	PIB/S
Graham Architectural Products 1551 Mt Rose Ave York PA 17405 717-849-8100 GRAHAM IGCC® CBA '97	IGCC-353 CBA	NYK	U	AA	MS/SG	HMB
Guardian Fabrication Inc 1412 S First St Rogers AR 72756 501-636-0888 GRD-028 IGCC® CBA '97	IGCC-1108 CBA IGCC-1109 CBA	NYK NYK	U U	AA AA	MS MS	MPS PIB/MPS

CERTIFIED PRODUCTS

LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Guardian Inds Corp-Lewistown One Belle Ave Lewistown PA 17044 717-242-2571 GRD-065 IGCC® CBA '97	IGCC-566 CBA IGCC-613 CBA	NYK NYK	U U	AA AA	MS MS	PIB/MPS PIB/S
Harvey Inds Inc 725 Huse Rd Manchester NH 03103 303-622-4232 H IGCC® CBA '97	IGCC-937 CBA	NYK	U	AA	MS	HMB
Hehr Glass Company 1021 Walnut Ave Pomona CA 91766	IGCC-1357 CBA	PLK	U	AA	MS	PIB/PS
HGP Industries Inc 5334 Barthel Dr PO Box 130 Albertville MN 55301 312-497-3212 HGP 22 IGCC® CBA '97	IGCC-317 CBA IGCC-360 CBA IGCC-621 CBA	ALK/S ALK/S ALK	U U/C U	MA MA MA	MS MS MS	PIB/PU PIB/S PIB/PU
HGP Industries Inc 1331 W Sam Houston Pkwy N Houston TX 77043 713-464-5611 HGP 65 IGCC® CBA '97	IGCC-1136 CBA IGCC-1137 CBA	NYK NYK	U U	AA AA	MS MS	PIB/HMB PIB/S
HGP Industries Inc 541 Industry Rd Ste 430 Louisville KY 40208 502-637-2022 HGP 64 IGCC® CBA '97	IGCC-1240 CBA IGCC-1083 CBA	NYK NYK	U U	AA AA	MS MS	PIB/S PIB/HMB
HGP Industries Inc 1500 Glen Ave Moorestown NJ 08057 309-234-9222 HGP 12 IGCC® CBA '97	IGCC- 402 CBA	NYK	U	AA	MS	PIB/S
HGP Industries Inc 3404 W Papago ST. Phoeniz, AZ 85009	IGCC-1102 CBA	NYK/M	U	AA	MS	PIB/HMB
HGP Industries Inc 1900 Midland St PO Box 11339 Rock Hill SC 29731 303-366-5167 HGP 44 IGCC® CBA '97	IGCC-1167 CBA IGCC-1219 CBA	NYK BC/NK	U U	AA AA	MS MS	PIB/S PU
HGP Industries Inc 10000 N Harrison Shawnee OK 74801-9503 300-654-2710 HGP 61 IGCC® CBA '97	IGCC-1165 CBA	NYK	U	AA	MS	PIB/HMB

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LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
HGP Industries Inc 1548 Stone Ridge Dr Stone Mountain GA 30083 770-939-6900 HGP 42 IGCC® CBA '97	IGCC- 914 CBA IGCC-1077 CBA	NYK NYK	U U	AA AA	MS MS	PIB/S PIB/HMB
HGP Industries Inc 5115 East Hartford St Tampa FL 33619 813-247-3184 HGP 43 IGCC® CBA '97	IGCC-1166 CBA	NYK	U	AA	MS	PIB/PU
HGP Industries Inc 1700 Daniel Boone Ind Pk Warrenton MO 63383 314-456-3452 HGP 21 IGCC® CBA '97	IGCC- 829 CBA IGCC-1245 CBA	ALK/S BC	U U	MA MA	MS MS	PIB/S PIB/HMB
Hoffer's Inc 5103 Janice Ave Schofield WI 54476 715-359-2432 H.I. GFB IGCC® CBA '97	IGCC-1178 CBA IGCC-1262 CBA IGCC-1312 CBA IGCC-1319 CBA	BC/ASM BC/ASM BC/NYK/ASM BC/NYK/ASM	U/C U U U	TPS SFS AA AA	DM DM MS MS	PIB/PU PU PIB/PU PIB/S
Hurd Millwork Co 1815 Water St Merrill WI 54452 715-536-5581 HURD IGCC® CBA '97	IGCC-1013 CBA IGCC-1256 CBA IGCC-1264 CBA	BC/NYK/AP BC/NK BC/NK	2/SCF U U	GS GS/TPS GS/TPS	MS DM DM	PU PIB/PU PIB/PS
Insulating Glass of Georgia Inc 7160 Delta Circle Austell GA 30001 404-819-3054 Inde-Pane ATL IGCC® CBA '97	IGCC-1003 CBA IGCC-1123 CBA	NYK NYK	U U	MA MA	MS MS	PIB/S PIB/PS
Insulpane of Connecticut Ind 30 Edmond St Hamden CT 06517 203-865-8212 INSULPANE OF CT IGCC® CBA '97	IGCC-770 CBA	NYK	U	AA	MS	PIB/PU
Interpane Glass Co 201 Interpane La PO Box 26 Deerfield WI 53531 608-764-5461 INTERPANE IGCC® CBA '97	IGCC 842 CBA IGCC-1158 CBA	BC/PLK/AP PLK	U/C U	MA MA	MS MS	PIB/S PIB/S
Interpane Glass Co PO Box 408 Clinton NC 28328 910-592-7101 INTERPANE GLASS CO IGCC® CBA '97	IGCC- 876 CBA IGCC- 984 CBA	BC/NK/WL NYK	U/C U/C	MA AA	MS MS	PIB/S PIB/S
Jersey Tempered Glass Inc 2035 Briggs Rd PO Box 205 Mt Laurel NJ 08054 609-273-8700 JTG IGCC® CBA '97	IGCC- 689 CBA IGCC- 750 CBA	NYK NYK	U U	AA AA	MS MS	PU PIB/PU

CERTIFIED PRODUCTS

LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Laminated Glass Corp 375 E Church Ave PO Box 1003 Telford PA 18969-1003 215-721-0400 LGC IGCC® CBA '97	IGCC- 857	CBA	NYK	U	AA	MS PIB/S
Louisville Plate Glass 1401 W Broadway Louisville KY 40201 502-584-6145 LPG IGCC® CBA '97	IGCC-1280 IGCC-1281	CBA CBA	NYK NYK	U U	AA AA	MS MS PIB/PS PIB/S
Mannix; Div of Interstate Window 345 Crooked Hill Road Brentwood NY 11717 516-231-0800 MANNIX IGCC CBA 1337 2-97	IGCC-1337	CBA	NYK	U	AA	MS HMB/PU
Marvin Windows PO Box 100 Warroad MN 56763 218-386-1430 MARVIN 01 IGCC® CBA '97	IGCC- 303 IGCC- 496 IGCC-1135	CBA CBA CBA	NYK NYK/PF BC/NK	U U U	AA AA/AP TPS/AP	MS MS DM PU PIB/PU PIB/PU
Mid-American Glass 117 S Sturdevant St PO Box 3428 Davenport IA 52802 329-326-6294 MAG IGCC® CBA '97	IGCC-1272	CBA	NYK	U	MA	MS/SG PIB/PS
Nashville Tempered Glass Corp 1860 Air Lane Dr Nashville TN 37210 615-889-6350 NTGC IGCC® CBA '97	IGCC- 995 IGCC-1117 IGCC-1184	CBA CBA CBA	BC/NK/WL NYK PLK	U U U	MA AA MA	MS MS MS PIB/PU PIB/PU PIB/PU
Norco Windows Inc PO Box 140 Hawkins WI 54530 715-585-6311 NORCO IGCC® CBA '97	IGCC-1099	CBA	NYK	U	AA	MS/SG PU
North American Glass 1001 Foster Ave Bensenville IL 60106 800-323-2290 NAG -23 IGCC® CBA '97	IGCC- 538 IGCC- 753	CBA CBA	NYK NYK	U U	AA AA	MS MS/SG PIB/MPS PIB/S
North American Glass 4161 S Morgan Street Chicago IL 60609	IGCC-1289	CBA	NYK	U	AA	MS PIB/HMB
North American Glass 3801 S Main St South Bend IN 46614	IGCC-1290	CBA	NYK	U	AA	MS PIB/PU

CERTIFIED PRODUCTS

LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Northwest Glass Inc 127 Regal St PO Box 21258 Billings MT 59104 406-252-7196 NWG IGCC® CBA '97	IGCC- 865 CBA	NYK	U	AA	MS/SG	PU
Northwestern Inds Inc 2501 W Commodore Way Seattle WA 98199 206-285-3140 NWI IGCC® CBA '97	IGCC- 940 CBA IGCC- 941 CBA IGCC-1274 CBA	BC/NYK BC/NYK BC	U/C U/C U	MA MA TPS	MS MS DM	PIB/PS PIB/S PIB/PS
Paramount Windows Inc 105 Panet Rd Winnipeg Manitoba CANADA R2J 0S1 204-233-4966	IGCC-1377 CBA	-	U/C	SS	MS/SG	PIB/PS
Patio Enclosures 720 E Highland Rd Macedonia OH 44056 216-468-0700 PEI IGCC® CBA '97	IGCC- 800 CBA	NYK	U	AA/AP	MS	PIB/PU
Perilstein Distributing Corp 100 Business Ctr Dr Cheswick PA 15024 412-274-9050 PERMA-PANE IGCC® CBA '97	IGCC- 765 CBA IGCC- 927 CBA	NYK NYK	U U	AA AA	MS/SG MS/SG	PIB/MPS PIB/S
PDC Glass of Michigan Inc. 11866 Hubbard Livonia MI 48150 313-522-0300 PDC IGCC® CBA '97	IGCC-466 CBA IGCC-467 CBA	NYK NYK	U U	AA AA	MS MS	PIB/MPS PIB/S
Philips Products 9141 Arrow Hwy Cucamonga CA 91730 909-987-4694 PP-03 IGCC® CBA '97	IGCC-1053 CBA	PLK/MB	U	AA	MS/SG	HMB
Philips Products 1620 Wilco Rd Stayton OR 97383 503-769-6321 PP-28 IGCC® CBA '97	IGCC-1054 CBA IGCC-1242 CBA	NYK/MB BC	U U	MA TPS	MS/SG -	HMB HMB
PPG Inds Inc 3700 Division Street Burlington IA 52601 319-753-2961 TWINDOW 42 IGCC® CBA '97	IGCC-1303 CBA	-	U	TPS	DM	PIB/PS
Pride Insulated Glass Co Inc 75 N Brandon Dr Glendale Heights IL 60139 708-351-1441 PRIDE IGCC® CBA '97	IGCC-1048 CBA	NYK	U	AA	MS	PIB/MPS

CERTIFIED PRODUCTS

LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Poma Glass & Specialty Windows 160 Turnbull Ave Girard OH 44420 335-545-0270 PG IGCC® CBA '97	IGCC-1269 CBA IGCC-1309 CBA IGCC-1310 CBA	- NYK BC	U U U	TPS AA BSS	DM MS -	HMB PU BSS
REPCO 510 Station Ave Bensalem PA 19020 215-637-1300 REPCO IGCC® CBA '97	IGCC- 833 CBA	NYK	U	AA	MS	MPS
Rochester Insulated Glass Inc No 73 Merrick Circle Manchester NY 14504 716-289-3611 RIG IGCC® CBA '97	IGCC- 451 CBA	BC/NYK	U	AA	MS	PIB/S
SCW; Div of Crystal Window 131-10 Maple Avenue Flushing NY 11355 718-961-7300	IGCC-1328 CBA	BC	U	BSS	-	BSS
SIGCO Inc 299 Presumpscott St Portland ME 04103 207-775-2676 SIGCO IGCC® CBA '97	IGCC- 654 CBA IGCC-1232 CBA	NYK/ASM NYK	U U	AA AA	MS MS	PS PIB/PS
S N E Enterprises 1000 S View Dr PO Box 700 Mosinee WI 54455-0700 715-693-7828 SNE M IGCC® CBA '97	IGCC- 553 CBA	BC/NYK/AP/ASM	U	AA	MS	PIB/PU
S N E Enterprises 2116 Wood St Stevens Point WI 54481 715-693-7828 SNE P IGCC® CBA '97	IGCC-1001 CBA	BC/NYK/AP/ASM	U	AA	MS	PIB/PU
Solar Seal Co 55 Bristol r South Easton MA 02375 508--0112 SOLAR SEAL IGCC® CBA '97	IGCC- 748 CBA IGCC-1079 CBA IGCC-1201 CBA	NYK/ASM NYK S/AA	U U U	AA AA MA	MS MS MS	PIB/MPS PIB/S PIB/PS
Syracuse Glass Co Inc 4019 New Court Ave PO Box 381 Syracuse NY 13206 315-437-9971 SGC IGCC® CBA '97	IGCC- 823 CBA IGCC- 828 CBA	NYK NYK	U/C U/C	AA AA	MS/SG MS/SG	PIB/MPS PIB/S
Tempglass Group Inc 291 "M" St Willis Day Industrial Park Perrysburg OH 43551 419-666-2000 TEMPGLASS 81 IGCC® CBA '97	IGCC- 722 CBA IGCC-1084 CBA	BC/NYK/AP NYK/AP	U U	MA MA	MS MS	PIB/S PIB/PS

AUGUST 1, 1997

CERTIFIED PRODUCTS

LICENSEE	IGCC NUMBER	CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Tempglass Group Inc 17851 N W Miami Miami FL 33169 305-652-3350 TEMPGLASS 82 IGCC® CBA '97	IGCC-1101 CBA	NYK	U	AA	MS	PIB/S
Tempglass Group Inc 1101 Fountain Pkwy Grand Prairie TX 75050 214-647-4028 TEMPGLASS 83 IGCC® CBA '97	IGCC- 862 CBA IGCC-1304 CBA	NYK NYK	U U	AA AA	MS MS	PIB/S HMB
Tempglass Group Inc 48999 Kato Rd Fremont CA 94539 510-651-2292 TEMPGLASS 84 IGCC® CBA '97	IGCC-1111 CBA	NYK	U	AA	MS	PIB/S
The Glass Factory Inc 5012 Expressway Dr S Ronkonkoma LI NY 11779 516-588-4844 SUPER-SEAL II IGCC® CBA '97	IGCC- 790 CBA	NYK	U	MA	MS	PIB/S
Thermalock Manufacturing Co 16880 Front Street Copemish MI 49625 616-378-2923	IGCC-1313 CBA	BC/NK	U	BSS	-	BSS
Thermolite Inc 950 N South Rd Scranton PA 18504 717-969-1957 THERMOLITE INC IGCC® CBA '97	IGCC-646 CBA	PLK/ASM	U/C	AA	MS	HMB
Thermoseal Glass Corp 400 Water St PO Box 360 Gloucester City NJ 08030 609-456-3109 TSG IGCC® CBA '97	IGCC-1126 CBA	DCK	U	AA	MS/SG	MPS
TRACO(Three Rivers Alum) Cranberry Ind Pk 71 Progress Ave Cranberry, PA 16066-3696 412-776-7000 TRACO IGCC® CBA '97	IGCC- 439 CBA IGCC-1307 CBA	BC/NYK/W BC	U U	MA TPS	MS DM	PIB/S HMB
Vinylume Products 4021 Mahoning Ave Youngstown OH 44515 330-799-2000	IGCC-1369 CBA	BC/NK	U	BSS	-	BSS
Viracon Inc 800 Park Dr PO Box 990 Owatonna MN 55060 507-451-9555 VIRACON IGCC® CBA '97	IGCC- 169 CBA IGCC- 980 CBA	BC/ALK/S BC/ALK	U/C U	MA/AP AA/AP	MS MS	PIB/S PIB/S

CERTIFIED PRODUCTS

LICENSEE	IGCC NUMBER		CORNER CONSTRUCTION	SUBSTRATE	SPACER	DESICCANT	SEALANT
Weatherproof Inc 385 Watts Rd Jackson MI 49203 517-764-1330 WEATHERPROOF IGCC® CBA '97	IGCC- 580 IGCC- 923	CBA CBA	NYK NYK	U U	AA AA/AP	MS MS	PU PIB/PU
Weather Shield Mfg Inc 2990 S 8th W Route 1 Box 103 Logan UT 84321 801-753-6590 WS-U 12 ® CBA '97	IGCC- 557	CBA	NYK/MB	U	AA	MS	PIB/PU
Weather Shield Mfg Inc 675 E Allman St PO Box 309 Medford WI 54451 715-748-2100 WS 02/03 IGCC® CBA '97	IGCC- 408	CBA	NYK/MB	U/C	AA	MS	PIB/PU
Western Glass/General Glass 11205 E 37th Ave PO Box 390711 Denver CO 80239 303-371-5511 DUAL-PANE IGCC® CBA '97	IGCC- 932 IGCC- 933	CBA CBA	BC/NYK BC/NYK	U U	AA AA	MS/SG MS/SG	PIB/S PIB/HMB
Winchester Industries Route 286 E Box 160 Saltsburg PA 15681 412-639-3551 WI IGCC® CBA '97	IGCC- 928	CBA	BC/NYK	U	BSS	-	BSS
Windsor Window Company 2210 Stafford St Ext Monroe NC 28110 704-283-7459	IGCC-1265 IGCC-1266	CBA CBA	NYK BC	U U	A BSS	MS -	HMB BSS

CERTIFIED PRODUCTS KEY

Sealant:

BSS	= Butyl sealant spacer
HMB	= Hot melt butyl
MPS	= Modified Polysulfide
PIB	= Polyisobutylene
PS	= Polysulfide
PU	= Polyurethane
S	= Silicone
SS	= Swiggle seal

Desiccant:

MS	= Molecular sieve
SG	= Silica gel
MS/SG	= Blend of molecular sieve & silica gel
DM	= Desiccated matrix

Corner:

ALK	= Aluminum key
DCK	= Die cast key
NYK	= Nylon key
PLK	= Plastic key
NK	= No key
BC	= Bent corners
AP	= Aperture plug

Spacer Material:

AA	= Anodized aluminum
AC	= Aluminum channel
AP	= Aperture plug
BSS	= Butyl sealant spacer
MA	= Mill finish aluminum
SFS	= Silicone foam system
GS	= Galvanized steel
SS	= Stainless steel
TPS	= Tinplate steel
ASM	= Air space material (muntin bars, coming, film, dividers, etc.)

S	= Soldered
W	= Welded
B	= Brazed
J	= Joiner
L	= Leg

Substrate:

U	= Uncoated
U/C	= Uncoated/Coated
SF	= Suspended film
SCF	= Suspended coated film

Thermal Break:

DP	= Desiccated plastic
PF	= Plastic foam
P	= Plastic

Vapor Barrier:

AF	= Aluminum foil
B	= Butyl
P	= Plastic

Note: The materials of construction as listed above are presented as general information only. The designations for the various component parts are generic and do not reflect specific product modifications or technical differences within a component. For more detailed information on components, contact your insulating glass supplier.

* UNDER EACH COMPANY'S NAME IS THEIR IGCC PERMANENT LABEL *

"PROTOTYPE IN PROGRESS"

The following Candidate Licensees have a prototype test in progress for possible inclusion the IGCC Program.

MANUFACTURERS

American Flat Glass Dist	Marietta, GA
American Flat Glass Dist	Powell, TN
Arch Aluminum & Glass LC	Kansas City, KS
Arch Aluminum & Glass LC	Villa Rica, GA
Arch Aluminum & Glass LC	Youngsville, NC
Cardinal IG	Minneapolis, MN
Cardinal IG	Spring Green ,WI
Coastal Glass Distributors	Charleston, SC
Edge Seal Technologies	Walton Hills, OH
Galaxy Glass	Liverpool, NY
Glass Unlimited	Highpoint, NC
Glass Dist of American	Lithia Springs, GA
Graham Architectural	York, PA
Harvey industries	Manchester, NH
Harvey Industries	New Bedford, MA
Harvey Industries	Springfield, MA
HGP	Tampa, FL
HGP	Warrenton, VA
Interstate Window	Brentwood, NY
J.E. Berkowitz	Westville, NJ
Mid-American	Davenport, IA
Norco Windows	Hawkins, WI
Northstar Glass	Tilton, NH
Oregaon Glass	Wilsonville, OR
Pioneer Window	Johnstown, NY
Poma Glass & Specialty Window	Girard, OH
Prelco Inc.	Riviere-du-loup, QC, Canada
Tecnoglass S A	Baranquilla, Columbia
Tempglass Group	Grand Prairie, TX
Thompson IG	Fenton, MI
W.A. Wilson	Wheeling, WV
Weathershield	Ladysmith, WI
Weathershield	Medford, WI

NOTICE

In accordance with the terms of the IGCC Procedural Guide, the IGCC Standard License Agreement and Appendix A (Affidavit) thereto, a manufacturer with a prototype product test in progress is not authorized to use an IGCC permanent label for that product or to certify that its product is in compliance with IGCC Program Standards and Procedures until a passing prototype test report for that product is presented by the manufacturer to the IGCC office and the manufacturer is otherwise in compliance with IGCC Program Procedures.

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COMMUNICATIONS

In all matters concerning the administration and implementation of the IGCC Certification Program, correspondence may be directed to any of the following:

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IGCC Certification Committee
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Jim Spetz Testing Laboratory
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Insulating Glass Certification Council
Heather Almeida, Administrative Manager
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3933 US Route 11
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ROSTER

BOARD OF GOVERNORS

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Representing Industry

Mark Cody, AFG Industries
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 Jim Krahn, Marvin Windows
 Lori Postak, Tremco
 James Sorge, Hurd Millwork

IGCC Officers

James Krahn, President
 James Sorge, VP& Treasurer
 Lori Postak, Secretary

IGCC CERTIFICATION COMMITTEE

Jim Spetz, Chairman

<u>Licensee</u>	<u>Primary Member</u>	<u>First Alternate</u>	<u>Second Alternate</u>
ACI Distribution Acorn Window Systems Advanced Glass Systems Inc. AFGD, Div of AFG Inds Inc. Alpen Inc. Alside Window Co American Flat Glass Distributors Arch Aluminum & Glass L.C. Assurance Glass Co J E Berkowitz Inc Capitol Aluminum & Glass Corp Capitol Glass & Aluminum Corp Cardinal IG Classic Glass of Battle Creek Inc Croft Metals Inc Crystal Window & Door Systems Curved Glass Products Inc Custom Glass Products Inc Custom Glass Prod of Carolina DeLuxe Insulated Glass Inc Downey Glass Dykstra Brothers Glass Co Edge Seal Technologies Floral Glass Ind Inc Floral Glass & Mirror Inc Four Seasons Solar Products Galaxy Mfg Co of CNY Inc Gardner Glass Products Gentek Building Products Glasmont Corp Glaswerks Phx, LLC Graham Architectural Products Guardian Fabrication Inc Guardian Inds Corp Lewistown Plant Harvey Industries Inc HGP & Affiliates Hoffer's Inc.	James Brooks James Brooks Leon Silverstein Walt Myers Doug Brown II Robert G Spindler Victor Reeder Steven Reeder Douglas J Smith Brent Moomey Michael McHugh Ken Lancaster John Jablonski John Jablonski Michael Kelliher Robert Williams Barb Striegel	Mark B Cody Mark B Cody Dan Haney Cheri Kellman Dennis Mills Roger O'Shaughnessy Eric Reeder Rick Kasten Mike Bayer Kevin Schulz Kevin Schulz	Thomas Mewbourne Thomas Mewbourne Brad Hansen James Larsen Joseph Oboikovitz Kevin Schulz Susan Ordd Jeff Sweet Kathryn Pell Kathryn Pell Kevin Schulz

Hurd Millword Co	James Sorge	Peter Nygaard	Paul Wagner
Insulating Glass of Georgia Inc	Rob Brewer	Joseph M Scalzo	
Insulpane of Connecticut			
Interpane Glass Co.			
Jersey Tempered Glass Inc			
Laminated Glass Corp		Mike Lerner	
Louisville Plate Glass			
Mannix; Div of Interstate			
Marvin Windows	James Krahn	Douglas Steinbring	
MGL Glass Div/Milco			
Mid-American Glass			
Nashville Tempered Glass Products			
Norco Windows Inc			
North American Glass	Richard Wright	Kevin Rose	
Northwest Glass Inc			
Northwestern Inds Inc	Tim McQuade	James Levingston	Henry Heiss
Paramount Windows Inc			
Patio Enclosures Inc	Jeff Nowell	Bob Boger	
PDC Glass of Michigan, Inc.			
Perilstein Distributing Corp			
Philips Products	Kevin McGee		
PPG Inds Inc			
Pride Insulated Glass Co			
Poma Glass & Specialty Windows			
REPCO			
Rochester Insulated Glass Inc	Stanley Wolk		
SCW; Div of Crystal Window			
SIGCO Inc	Andrew C Soule	Steven Freeman	
S N E Enterprises	Doug Palmer		
Solar Seal Co	Frederic P Shaw Jr		
Syracuse Glass Co Inc			
Tempglass Group Inc	William Coddington	Richard Wright	Tim Kachmarik
The Glass Factory			
Thermalock Manufacturing Co			
Thermolite Inc.			
Thermoseal Glass Corp			
TRACO(Three Rivers Alum)	Robert P Randall		
Vinylume Products			
Viracon Inc	Lyle Krohnberg	Dean Mennen	Russ Huffer
Weatherproof Inc			
Weather Shield Mfg Inc	Lyn Hartl	Randy Runge	Steve Wright
Western Glass/General Glass	Peter Fillmore	Richard Wright	Jim Miller
Winchester Industries			
Windsor Window Company			

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ETC; Jim Spetz Testing Div.
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Wickliffe OH 44092

Donald J Vild
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Oregon OH 43616

Scott Warner
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York PA 17402-9405

Jerry Wulf
Andersen Corporation
Bayport MN 55003

IGCC® LABEL REQUIREMENTS

THE IGCC CERTIFICATION LABEL MUST BE PERMANENTLY MARKED ON A VISIBLE PORTION OF EACH SEALED INSULATING GLASS UNIT OR IT IS NOT CERTIFIED BY THE MANUFACTURER TO THE PUBLIC. The label shall be etched, sand blasted, embossed, printed, painted or otherwise permanently marked on the spacer or at least one component pane of the sealed unit.

This label must be visible after installation in the building. The IGCC permanent label must be in block capital letters and have a minimum height of 0.050 inches. The letters IGCC must be followed by the Federal Registration Mark or a close facsimile. i.e. IGCC®.

The IGCC permanent label must contain the company identification. (company name, trade name or company code consisted of letter(s), plant code*, registered "IGCC®" mark, C, CB, or CBA rating level and a date code spanning no more than a 12 month period, plus or minus one month and commencing with the beginning of each calendar year (effective for both the beginning and the ending of each period). Outdated spacers may be hand stamped to bring the label up to date. The Plant Code would only be required when there is more than one plant with an IGCC certified product operating under that company name. The IGCC permanent label must be affixed to certified products only at the time and place of manufacture. The labeling must be approved by the Administrator. The rating level (C, CB, or CBA) will be considered as part of the IGCC label. The permanent label must be affixed only the sealed insulating glass units of the licensee's own manufacture which have been certified by the manufacturer through IGCC.

The permanent label must not be sold, transferred or otherwise disposed of in any manner other than being affixed to the licensee's certified production. The permanent label must not be affixed to any product from which certification have been withdrawn or which is produced with a process basically different from the one used when certification was obtained.

Example of Minimum Labels:

<u>Company Identification</u>	<u>Plant Code</u>	<u>IGCC®</u>	<u>Rating Level</u>	<u>Year Code</u>
AMERICAN GLAZING COMPANY	*	IGCC®	CBA	'96
or				
AMERIPANE				
or				
AGC				
or				

All 3 if desired but must be listed

Under each company's name is their IGCC permanent label.

IN RECOGNITION OF PAST PRESIDENTS WHO SERVED IGCC SINCE ITS INCEPTION

Roger D. O'Shaughnessy	Cardinal IG	1977 - 1979
Donald J. Vild	LOF Glass	1979 - 1981
Colin S. Brady	Twin Pane	1981 - 1982
Robert G. Spindler	PPG	1982 - 1983
Jerry Catalano	Hordis Brothers	1983 - 1985
Dr. Joseph E. Minor	University of Missouri	1985 - 1989
Mitchell D. Edwards	SPI Glass Corp	1989 - 1992
John Colapietro	Tempglass Inc.	1992 - 1993
Robert G. Spindler	Cardinal IG	1993 - 1996
James Krahn	Marvin Windows	1996 - Present

MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Insulating Glass Certification Council met in April, 1997.

Interested persons may obtain minutes of these meetings by writing to the Insulating Glass Certification Council.

By-laws are also available by writing to the Insulating Glass Certification Council.

Certification in this directory is up to date as of August 1, 1997; however, products may be authorized to use the permanent label or authorization removed from time to time. Please contact the IGCC office for the latest up-to-date information.

Direct all requests or any comments to:

Insulating Glass Certification Council
Ms. Heather Almeida
3933 US Route 11
PO Box 2040
Cortland NY 13045-0950

Telephone: 607-758-6225
Fax: 607-756-9894

**A GUIDELINE FOR YOUR ASSISTANCE IN ADVERTISING YOUR PRODUCTS
AND THEIR CERTIFICATION STATUS UNDER THE INSULATING GLASS
CERTIFICATION COUNCIL ("IGCC") CERTIFICATION PROGRAM:**

The following concepts are important to remember whether you are a Participant or Licensee in the IGCC Certification Program, or supplier to the sealed insulating glass industry. This discussion is intended to provide you with an accurate background description of the IGCC Certification Program, to help you avoid making possibly misleading, deceptive, or ambiguous statements regarding the Program in the advertising of your products.

1. IGCC is the sponsor of a Certification Program. IGCC does not certify products.
2. The Administrator inspects laboratories and checks their equipment; inspects Licensees' production and fabrication of specimens; and validates test reports and certification claims.
3. Laboratories test specimens to specific test methods and specifications, referenced by IGCC.
4. Manufacturer/Licensees "certify" their products, affirming that their products are constructed similarly to specimens which were inspected, tested and found to pass the stated criteria. A Licensee's Certification Statement is the imprinting, sandblasting, etching or other form of permanent marking of an IGCC Certification Program designation and number to its product.
5. IGCC does not have "members," inasmuch as the term "members" carries with it a connotation that some detailed criteria must be met in order to participate in the organization. Under the IGCC concept, anyone can participate and "participants" simply must possess a "legitimate interest in the purposes of IGCC." Manufacturers, on the other hand, which are "fabricators of sealed insulating glass units," become Participants by virtue of executing a License Agreement with IGCC. Any manufacturer of insulating glass may voluntarily enter into a license agreements with IGCC, provided it intends to certify at least one product under the IGCC Certification Program. Thus, the proper term to use for a manufacturer Participant is Licensee. A manufacturer, with a prototype in progress, is termed a "Candidate Licensee."
6. Unit specimens, not their components, are tested under the IGCC program. Thus, if you are a supplier to the industry, statements indicating that your components have complied with the test methods would be incorrect. A better nomenclature for example, would be, that "Units tested to ASTM E774-88 contained our X component have been found to meet the requirements of Class Y."
7. Should you have any questions concerning the IGCC Certification Program, please contact:

Insulating Glass Certification Council
Ms. Heather Almeida
3933 US Route 11
PO Box 2040
Cortland NY 13045-0950

Telephone: 607-758-6225
Fax: 607-756-9894

PROCEDURAL GUIDE

INSULATING GLASS CERTIFICATION COUNCIL

CERTIFICATION PROGRAM FOR SEALED INSULATING GLASS

FOREWORD

Acceptance of certified sealed insulating glass comes with the conviction that such certification assures a high level of quality and the integrity of the identifying mark or certification label is being reliably maintained by a competent certifying agency.

The existing ASTM Specification E774-88 for sealed insulating glass provides a sound technical basis for the required quality of sealed insulating glass. With the addition of independent administration plus periodic routine in-plant visited and product evaluation, a program of product certification is developed in accordance with accepted standards. The certification program described here is predicated upon the concept of independent and impartial administration of the certification procedures in the IGCC license agreement.

To insure administration of the certification program in a uniform and equitable manner, this procedural guide have been prepared for the information and guidance of the licensees.

IT should be noted that the IGCC 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 procedures and routine operation of the certification program.

GENERAL INFORMATION

The Certification Concept

The IGCC certification program is based upon the conviction that no standard of quality is good without the continuous adherence of the licensees to that standard.

To buyers, specifiers, code officials and users, the IGCC certification label offers the manufacturer's assurance that his sealed insulating glass units have been produced in conformance to the ASTM specification E774-88.

Who Can Participate?

Every manufacturer of sealed insulating glass is eligible, on a voluntary basis, to participate.

Who Conducts the Program?

The Insulating Glass Certification Council, a non-profit corporation, is the sponsor of this certification program. IGCC supervises the certification program under which the administrator periodically checks and reports compliance of the manufacturers of products have the IGCC certification label.

Administration

ITS/ETL Testing Laboratories, Inc. (ETL) is the independent administrator of the certification program. ETL maintains the IGCC office of certification and handles the routine day-to-day business. All transactions are done in the name of IGCC.

How Can You Become a Licensee?

The following steps must be accomplished before IGCC can authorize a manufacturer to use the IGCC permanent label:

- a) The manufacturer must present a passing prototype report from an approved IGCC Testing Laboratory (Fabrication of which was witnessed by the Administrator) to the IGCC office.
- b) The manufacturer signs two copies of the IGCC license agreement (including notarization of the Affidavit, Appendix A) and sends these to the IGCC office. IGCC will countersign both copies and return one to the licensee.

- c) The Appendix A, to the License Agreement, contains a description of the model (prototype report attached) that will be authorized to use the IGCC permanent label.
- d) The licensee sends to IGCC the necessary certification fee.
- e) After receipt by IGCC of the above, the administrator validated that particular model and sends to the licensee a notice of authorization to use the IGCC permanent label. The permanent label must be affixed on each certified sealed insulating glass unit.
- f) The certified model will then be listed in the next published certified products directory.

HOW THE CERTIFICATION PROGRAM WORKS

American Society for Testing and Materials has test methods and specifications for sealed insulating glass. Sealed insulating glass must meet or exceed the applicable specification before it can be certified.

IGCC recognized independent testing laboratories conduct all tests. All laboratories, whose test reports are utilized by this certification program, shall be approved by the IGCC certification committee.

Administrator authorizes certification

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

Approved products are listed the certified products directory, which is published at every six months. It is sent to door, sash and building manufacturers, glazing contractors, home builders, architects, regulatory agencies and code-making groups, etc. Directory listings contain the licensee's name, plant location and product description.

The administrator verifies production at the licensee's manufacturing location twice per year by making unannounced inspections. The prototype test will be considered as the test for the first year of certification. During the first year, two inspections will take place at which time the inspector will compare the current production with the product authorized to use the IGCC permanent label. During the first inspection in the second year, specimens will be fabricated for testing. IGCC will ask the manufacturer to produce twelve test specimens. The fabrication of these twelve test specimens is witnessed by IGCC and IGCC verifies that they are produced in accordance with the construction certified. The licensee is instructed to send these test specimens to an official IGCC testing laboratory where they are tested. The specimens must be shipped to the laboratory within four weeks of fabrication. Tests are made at the laboratory recommended by the licensee and selected by the administrator from the approved list.

A monthly report listing the status of testing is mailed to the licensee by IGCC on the 15th of each month.

Upon completion of the test, results are mailed promptly to the licensee by the administrator.

COMPLIANCE SAFEGUARDS

How is compliance assured?

Any certified product found in the course of routine inspection and evaluation not be in compliance with the model description is subject to having authorization to use the IGCC permanent label removed. The licensee is sent a Request for Clarification giving thirty days in which to demonstrate to the satisfaction of the administrator that his product is in compliance with the model description that is certified. If he does not respond, a Warning of Possible Removal of Authorization to Use the IGCC Permanent Label is sent by certified mail; return receipt requested, giving an additional thirty days to respond. If he does not respond, authorization to use the IGCC permanent label is automatically terminated at the end of that thirty-day period.

In the case of a routine test failing to comply with the specifications, the licensee will be officially notified by certified mail; return receipt requested that within 15 days he must respond, stating a retest fabrication is requested by paying all administrative and test fees. If there is no response within the 15 days, authorization to use the IGCC permanent label is automatically terminated. If the retest option is accepted, the administrator will perform an inspection and witness fabrication of the retest specimens within 45 days of payment of fees.

Challenging a Certified Product

Complaints of non-compliance from any corporation or business source will be investigated promptly by IGCC upon receipt of the complaint in writing along with an appropriate surety deposit. A minimum surety deposit of \$1,500 will be required for each complaint of non-compliance. The surety deposit will be assessed at the rate of \$300 per man plus the reasonable cost of travel and other expenses 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 complaint's surety deposit, unless the investigation proved non-compliance, in which case all costs will be borne by the licensee found to be in non-compliance.

Complaints by Consumers

The administrator shall receive and log the complaint; responding to the consumer with a certified products directory and instructions on how to locate the IGCC label.

It will be the consumer's responsibility to identify the label, number, class and date code which appear on the spacer of glass and advise the administrator of the same. Note: If no IGCC label exists, the product have not been certified by the manufacturer to IGCC and the administrator and IGCC have no further responsibilities or options.

One the consumer has identified the label, name, etc. and advised the administrator, the administrator shall respond, advising the consumer of the name, address, primary contact, model description and other pertinent information at hand as it pertains to the subject licensee. Note: If the complaint is being made for reasons of product appearance or failure such as glass quality, fogging, seal failure, dust, etc., the consumer shall be advised to contact the licensee for manufacturer directly. Some manufacturers and their dealers or distributors offer warranties on their products. Normal claims, procedures and legal remedies are available to consumers on a state by state basis.

If the consumer wishes to determine whether or not a labeled product is in compliance with the model described through an investigation by IGCC, the corporation or business challenge procedure shall be utilized. The surety deposit shall be modified to \$400 and charges per man day shall be assessed against the surety deposit in the amount of \$300 plus reasonable travel costs and other expenses.

Withdrawal of Certified Product

Any product which has been authorized to use the IGCC permanent label may be voluntarily withdrawn from the Certification Program by the licensee at any time.

COSTS

What Does the Program Cost?

The initial administration fee will be based on the date of authorization to use the IGCC permanent label in a manner that participation in the certification program will be on a February 1 to January 31 basis thereafter. If the authorization date is between August 1 & December 1, the administration fee for the first year will be charged for participation and will include two inspections prior to the following February 1 date. A licensee is invoiced for each item that is certified and listed separately in the Certified Products Directory. An additional invoice for testing laboratory fees will be issued upon fabrication of test units. Testing of these units will not begin until payment has been received. Should failure of these units occur during certification testing, any remaining balance will be refunded to the Licensee.

CERTIFICATION PROGRAM DOCUMENTS AND AGREEMENTS

License Agreement

This agreement, incorporating independent program administration and routine, periodic, independent plant inspections, sampling and evaluation, governs the relationship between IGCC and the licensee.

Future amendments or revisions to the license agreement will be recommended by the IGCC certification committee and enacted by the IGCC Board of Governors.

Effective Date, Duration, and Termination

The License Agreement becomes effective on the date of its execution; has an initial duration of twelve months (adjustable to a February 1 to January 31 basis), and is automatically renewed for successive, additional periods of twelve months, unless either party gives notice at least sixty days prior to date of expiration that cancellation is requested or unless revoked by IGCC for causes set forth in the document.

Administrative Service Agreement

This agreement entered into by IGCC and ITS/ETL Testing Laboratories, Inc. governs the relationship between IGCC and ETL, the independent administrator. In general, it provides that the administrator:

- a) routinely inspects licensee manufacturing facilities twice per year, and during the first inspection in the second and subsequent years, witnesses fabrication of specimens for testing at one of the IGCC testing laboratories
- b) has the right to witness any and all testing
- c) reviews all test reports in order to determine compliance of the certified product with the specifications
- d) inspects and approves all test laboratory facilities for use in this certification program (test laboratories are recognized or approved by the IGCC certification committee)
- e) publishes and mails the IGCC certified products directory twice each year
- f) handles all routine clerical duties of IGCC with respect to certification matters
- g) acts as IGCC treasurer, invoicing licensees, maintaining a bank account and dispersing funds (fiscal reports are made to the Board of Governors)
- h) attends all scheduled meetings of the IGCC certification committee and
- i) in all of its actions acts in the name of IGCC

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's operation. It covers the steps to be taken in any given procedural situation in the interest of equitable and uniform treatment of licensees and the preservation of the integrity of the certification program.

Certified Products Directory

This directory is the one document and publication that is normally in the public's eye and contains a listing of the certified seal insulating glass units of each licensee.

Certification Label

This certification mark is permanently affixed to each unit of certified sealed insulating glass by the licensee. It contains a code that refers to the listing in the certified products directory. The listing then provides a product description including the company name, plant location, etc.

PROGRAM RESPONSIBILITY

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

The IGCC 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 "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 laboratory
- 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 IGCC Board of Governors changes to be made in the license agreement.

CERTIFICATION GUIDELINES AND INTERPRETATIONS

for guidance in labeling and certifying sealed insulating glass units the IGCC Certification Committee has adopted the following:

ALWAYS

The following situations permit the licensee to always certify the sealed insulating glass units with the same IGCC number.

GLASS

A.GL.1

Any change in glass thickness from that tested (3/16 inch is required in test specimens).

A.GL.2

Any change in glass tint or color from that tested (clear glass is required in test specimens).

A.GL.3

Any change in glass size from that tested (14 by 20 inches is required for test specimens).

A.GL.4

Any change in glass type (i.e. tempered, heat strengthened, laminated or patterned glass) from that tested (annealed glass is normally used in test specimens).

A.GL.5

Any change in glass shape from that tested (rectangular glass is required in test specimens). This guideline permits the same IGCC number for triangular, circle head, trapezoidal and other shapes.

A.GL.6

Any change in glass supplier from that tested.

A.GL.7 - Pyrolytic Coated Glass

Inorganically coated glass (i.e. pyrolytic applied low E or reflective coatings) are acceptable with the same IGCC number as uncoated glass. (Adopted 9/11/96)

A.GL.8 - Edge Deleted Sputter Coated Class

Edge deleted sputter coated glass (i.e. reflective or Low E) is acceptable with the same IGCC number as uncoated glass. (Adopted 9/11/96)

SPACER**A.SP.1**

Any change in air space dimension from that tested (one-quarter inch to one-half inch air space is allowed).

A.SP.2

Any change in spacer wall thickness from that tested.

A.SP.3

Any change in spacer seam design (i.e. butt seam or lock seam) from that tested.

A.SP.4

Any change in supplier of spacer from that tested, everything remaining the same.

A.SP.5

Corners or connections which are soldered, welded, brazed or bent, but uncut, may be used interchangeably with the same IGCC number. (Adopted 2/19/85)

A.SP.6

Corners may be changed to bent-uncut corners, using the same IGCC number, provided the remaining connections utilize the same fastening technique as previously certified. (Adopted 10/18/89)

DESICCANT**A.DE.1**

A manufacturer may use the same certification number for units fabricated having air space equal to, or greater than, 1/4-inch provided the weight of desiccant per inch of edge remains the same or is greater than the model tested. On units fabricated having 3/16-inch air spaces, provided the manufacturer maintains the same weight of desiccant per inch of edge or as close to that value as possible.

A.DE.2

A change in supplier of the same generic type of desiccant from that tested will not require a different IGCC number.

A.DE.3

The use of the same desiccant manufactured in different particle size ranges will not require a different IGCC number.

A.DE.4

An increase in the percentage of molecular sieve in a blended desiccant (defined as a "molecular sieve/silica gel" mix) will not require retest unless the molecular sieve content exceeds 75% of weight. (Adopted 8/29/84)

A.DE.5

A licensee may change supplier of desiccant matrix provided that the licensee (1) immediately informs the administrator of the change, (2) provides written documentation that the absorption capacity per perimeter edge of seal is equal to or greater than the matrix used in the original model, and (3) prepares test specimens at the time of the next scheduled inspection. (Adopted 4/29/97)

SEALANT**A.SE.1**

Any increase in moisture vapor transmission path length is an acceptable alternate from labeling

A.SE.2

A licensee may use a temporary alternate sealant in the same generic class by (a) notifying the Administrator of the change, and (b) having test specimens witnessed by the administrator's representative at the next regular inspection, and (c) sending the test specimens to an approved testing laboratory within four weeks of the test specimens' fabrication date. The licensee may temporarily use the certification label on a provisional basis commencing with written notification of the Administrator and end when test results are received by the Administrator. (revised 6/7/90)

NEVER

The following situations never permit the licensee to certify with the same IGCC number. They require the use of a different IGCC number.

SPACER

N.SP.1

A change in spacer material, i.e. aluminum to steel or any other material will require a different IGCC number.

N.SP.2

A change in spacer surface finish, i.e. anodized to mill finish or hot dip to electro galvanized, will required a different IGCC number.

N.SP.3

A change in corner design from soldered, welded, braised or bent to mechanical corner will require a different IGCC number. (Modified (4/16/91)

N.SP.4

A change in corner key material to another material, except for same material as the spacer, will require a different IGCC number.

N.SP.5

If bent, uncut spacer corners or connections are changed to mechanically fastened spacer corners, a new IGCC number is required. (Adopted 2/19/85)

DESICCANT

N.DE.1

A change in generic type of desiccant will require a different IGCC number. Generic types, for purpose of this guideline, are silica gel, molecular sieve and blends of silica gel and molecular sieve up to 75% by weight molecular sieve. (Adopted 8/29/84)

SEALANT

N.SE.1

In a single sealant system, a change in generic type of sealant will require a different IGCC number.

N.SE.2

In a two sealant system, a change in generic type of primary sealant will require a different IGCC number.

N.SE.3

In a two sealant system, a change in generic type of secondary sealant will require a different IGCC number.

N.SE.4

Any decrease in the minimum design moisture vapor transmission path length will require a different IGCC number.

N.SE.5

Any increase in thickness of design moisture vapor transmission path (glass to spacer dimension) sill require a different IGCC number.

GENERAL**CLASS I - UNIT MODIFICATION**DEFINITIONS

Breather Tube - Tube inserted into the I.G. spacer and intended to be sealed prior to glazing of the unit.

Capillary Tube - Tube inserted into the I.G. spacer and intended to be left permanently open.

Capillary Tube and How It Related to Membrane - IGCC observes that organically sealed insulating glass units are not actually hermetically sealed, but rather are composed of sealing systems which demonstrate sufficiently low water and gas transmission rates as to pass the accelerated weathering conditions imposed in ASTM E773 and E774. We acknowledge that certain capillary tube designs may also control the passage of water and gases in such a manner as to allow breathing but still demonstrate the ability to pass the test conditions.

G.O - (Added Guideline - 8/14/85)

An I.G. construction incorporating a permanently open capillary tube will be considered and listed as equivalent to a previously IGCC program certified I.G. model without a capillary tube, provided the following applies:

- a. Material and construction of the units are identical, except for the inclusion of the capillary tubes.
- b. Both sets of I.G. units reach the same rating level when tested according to ASTM E774. The units with capillary tubes need only be tested once.
- c. The test must be run by an IGCC approved lab.
- d. Preparation of test specimens need not be witnessed. However, the test result must be reviewed and approved by the Administrator.

G.1 - Breather Tube (Temporarily Open Type)

A licensee is permitted to insert the open end of a breather tube in a bag or container of desiccant during shipment of a specimen to the test laboratory. The breather tube must be sealed prior to testing. (Adopted 8/14/85)

G.2 - Breather Tube (temporarily Open Type)

The addition of a breather tube is acceptable, for shipping only, even though not in the test specimen. The breather tube should be properly sealed before installation. (Adopted 8/14/85)

G.3 - Edge Protection

The addition of edge protection such as metal banding, metallic foil, barrier coat, etc. is acceptable with the same IGCC number.

G.8 - Muntins

Test specimens shall be constructed utilizing all of the components of the muntin system which are used in the ultimate product and shall be situated in a four lite divided arrangement in a diagonal or rectangular pattern. A licensee may use the same certification number for units manufactured without internal muntins providing the yearly testing has been accomplished in accordance with the above procedure. (modified 4/17/91)

G.15 - Multiple Air Spaces

Multiple air space units may be certified with the same IGCC number as single air space units, provided that the construction of each space complies with the guidelines for single space units; pressure communication of spaces is permitted, but not required.

G.19 - Sputter Coated Glass (coated to edge)

A sputter coated insulating glass unit shall be considered equivalent to certified insulating glass units made with uncoated glass provided that the test level is the same for both sets of insulating glass units. Tests shall be by IGCC approved laboratories. For reflective coatings, only the lowest light transmission product for which equivalency is desired need be tested provided that the outermost layer contacting the sealant is the same composition for all visible light transmissions. The equivalency shall apply for all coated products of the same generic type (i.e. metal or metal compounds that can be glazed monolithically) regardless of the source of manufacture.

For Low E sputtered coatings (which are non-edge deleted), equivalency must be established as above in insulating glass unit testing.

Preparation of the test specimens need not be witnessed; however, the test results must be reviewed and approved by the administrator.

A licensee needs to establish equivalency for a model only once. (Modified 9/10/96)

G.26 - Desiccant in 1/2-inch Air-Space Test Units

In cases where units are made for testing with 1/2-inch air-space, glass thickness shall remain within the guidelines already established and that the desiccant quantity shall be limited to a maximum of filling one-half of the perimeter. (Adopted 8/28/86) However, if equivalent desiccant quantity to a standard 1/4-inch air space unit can be demonstrated, filling of all sides will be allowed (modified 9/1/87).

It should be noted that the limitation upon desiccant quantity is done in order to maintain the relationship of quantity of desiccant within the 1/2-inch air space test unit identical with that of a 1/4-inch air space test unit since the moisture vapor transmission area in each of these units is identical. Filling 4 spacers of a 1/2-inch air space would give manufacturers having this larger air-space unit tested an unfair advantage. It was asked to point out that testing of units containing a 1/2-inch air space will undergo greater stress during the test and, therefore, is considered a more difficult test in this configuration. (Adopted 8/28/86)

G.27 - A sealed insulating glass unit that has been structurally modified, i.e. hole or holes for gas filling, shall be tested for certification assembled with standard production procedures including these modifications. At the option of the manufacturer, the units may be tested with gas or air in the interspace. Non-gas-filled units shall be considered equivalent providing construction is identical except for the omission of the gas filling hole/holes. (Adopted 9/8/88) To accommodate this modification, a nominal 1/2-inch \pm 1/16-inch gas or air space may be tested under this guideline. (Modified 3/29/89)

CLASS II - SPECIMEN**G.6 - Specimens - Quantity**

A minimum of 12 specimens up to a maximum 24 specimens, will be fabricated for testing purposes. (No more than 12 specimens may be shipped to the laboratory at one time.)

G.9 - Specimens - Production

When a licensee is producing only unlabeled units at the time of an unannounced plant inspection, the licensee will be requested by the IGCC inspector to label at least one unit in accordance with Guideline G.7 to permit completion of the inspection. (The label may be hand scribed or crayon marked on the inside surface.)

G.10 - Specimens - Production

If a licensee is not producing units at the time of an unannounced inspection, a labeled unit from inventory may be cut apart for inspection, provided that the date code is within the inspection period.

G.11 - Specimens - Production

A portion of unannounced inspection will be a check, to some degree, to determine whether a licensee is using and IGCC label on unauthorized units.

G.12 - Specimens - Shipment

Units fabricated for test during an unannounced inspection must be shipped within four weeks of the date of fabrication. If they are not, the inspection is considered invalid and another inspection must take place. All costs related to this guideline are to be borne by the licensee.

G.14 - Specimen Frequency

the prototype test will be considered as the test for the first year of certification)providing application is made within 18 months from the date of the test report). This is effective fro matters initiated after May 1982. The next fabrication for testing purposes will be in the first half of the second year.

CLASS III - LABELING**G.7 - Labeling**

The permanent label shall be etched, sand blasted, embossed, printed, painted, or otherwise permanently marked on the spacer or at least one component pane of the sealed unit.

G.17 - Labeling - Qualification

A licensee may accept certification to any level passed on any test (retest, prototype, routine testing) under any IGCC supervised testing conditions.

G.18 - Labeling

The IGCC permanent label must contain the company identification, company name, trade name, or company code consisting of letters, plant code, registered "IGCC" mark, C. CB. or CBA rating level and a date code spanning no more than a 12-month period, plus or minus one month and commencing with the beginning of each calendar year (effective for both the beginning and ending of each period). The plant code would only be required when there is more than one plant with an IGCC Certified Product operating under that company name. The labeling must be approved by the Administrator. (Adopted 8/28/86)

CLASS IV - EQUIVALENCY**G.5 - Gray Area**

Situations that are not included in the "Always" or "Never" categories listed above, fall into the gray area. The gray area situation is covered by minutes item 10.10.77.10 and is repeated here.

When there is a change and the licensee desires to use the same IGCC number, the licensee shall immediately notify the administrator with all details of the change and also satisfy either 1 or 2 below:

- 1) establish equivalency by passing the same level of ASTM test as certified to by:
 - a) having specimens tested at an IGCC independent testing laboratory or
 - b) having specimens tested at an in house (licensee) facility, testing done in house by a licensee must be done under the surveillance of the administrator.

Specimens must be fabricated and submitted to the laboratory within two weeks after notification of the administrator. During the test period, the licensee may temporarily use the certification label on a provisional basis or:

- 2) demonstrate the equivalency of the change to the satisfaction of the certification committee or a subcommittee. (specimens not required)

G.21 - Transfer

If a licensee manufactures the same model using the same technology at a different location, a certification number with a temporary status will be issued provided that testing of the model is initiated at the next scheduled testing inspection. (Modified 9/10/96)

G.23

A licensee needs to establish equivalency for a model only once.

G.24

Special note should be taken that the ASTM E773 test method only provides testing for "Vision glass areas." As such, it is only these types of units that fall within the IGCC Certification Program. This, however, in no way precludes the ultimate use of these units in other applications; e.g. Spandrel units. (Adopted 8/28/86) Labeled spacer may be used in IG units, other than vision glass; but in that case, certification does not apply. (Adopted 4/16/91)

CLASS V - APPEALS, REVIEW AND DE-CERTIFICATION

G.13 - Monetary

The administrator shall remove authorization to use the IGCC permanent label from all of any licensee's products for failure to pay monies due to IGCC within 60 days of invoice date (reference License Agreement A.13 and B.6).

G.16 - Appeals

In cases where a routine test fails to comply with the specifications:

- a) Upon notification of failure of routine test samples to reach the certified level, the licensee will be officially notified by certified mail; return receipt requested. Within 15 days the licensee must respond to the certified letter stating a retest fabrication is requested by paying all required administrative and test fees. If there is no response within 15 days, authorization to use the IGCC permanent label will be removed.

If the retest option is accepted:

- 1) Request for retest option is granted by IGCC only by receipt in full of any administrative and retest fees within 15 days of date of mailing of the notification of failure. 2) IGCC will perform an inspection and witness fabrication of retest specimens within 45 days of payment of fees in 1) above. 3) Licensee must ship and deliver retest specimens to the testing laboratory within 7 days of fabrication. (Copy of shipping papers and delivery receipt must be received by IGCC within 14 days of fabrication of retest specimens.)
 - b) There is to be no change in certification status during the retest period.
 - c) All routine inspections will continue. Sample fabrication for subsequent routine testing of the questionable model will be suspended pending the outcome of the retest.
 - d) If the retest units comply, they shall be considered as the next routine test.
 - e) If the retest units fail, the licensee is issued a cease and desist order on use of the label immediately.
 - f) The licensee may choose to accept certification at any level passed by the retest, although it might be a lower level than originally desired.

G.20

Authorization to use the IGCC permanent label will be removed if a routine inspection discloses that a licensee is labeling units containing the same authorized construction for the third time.

G.22

Clarification of due process appeal process under License Agreement, Paragraph A.11:

A licensee's appeal from a final adverse decision by the Administrator, under License Agreement Paragraph A.11, shall in the first instance be to the Quick Action Subcommittee of the Certification Committee, which acts as an executive committee for the Certification Committee in order to provide a prompt hearing for the Licensee and to act on the Licensee's appeal as quickly as possible. A decision by the Quick Action Subcommittee favorable to the Licensee shall be a final decision. A decision by the Quick Action Subcommittee adverse to the Licensee may be appealed to the full Certification Committee for a due process review and hearing. Such an appeal to the Certification Committee must be made in writing within 30 days of an adverse decision by the Quick Action Subcommittee and this appeal will be heard at the next regularly scheduled meeting of the Certification Committee. Pending a hearing by the Certification Committee on such an appeal, the Licensee may maintain certification for the product at issue.

IGCC® APPROVED LABORATORIES PRESENTLY CONDUCTING TESTS**IN ACCORDANCE WITH ASTM E773-88 & E774-92****LABORATORIES**

Architectural Testing Inc
130 Derry Ct
York PA 17402-9405
Attn: Scott A. Warner

Telephone: 717-764-7700
Fax: 717-764-4129

Architectural Testing Inc
2524 East Jensen Ave
Fresno CA 93706
Attn: Richard Troyer

Telephone: 209-233-8705
Fax: 209-233-8360

ORTECH Corporation
2395 Speakman Drive
Mississauga, Ontario
Canada L5K 1B3
Attn: Allan Major

Telephone: 905-822-4111 x-585
Fax: 905-822-4076

ITS/Warnock Hersey
8431 Murphy Dr
Middleton WI 53562
Attn: Nancy Kokesh

Telephone: 608-836-4400
Fax: 608-831-9279

Architectural Testing inc
587 First St SW
New Brighton MN 55112
Attn: Dan Braun

Telephone: 612-636-3835
Fax: 612-636-3843

ETC; Jim Spetz Testing Division
29633 Lakeland Blvd
Wickliffe OH 44092
Attn: James L. Spetz, P.E.

Telephone: 216-944-3665
Fax: 216-944-3671

Performance Testing, Inc.
4076 148th Ave NE
Redmond WA 98052
Attn: Jon DeRose

Telephone: 206-883-9788
Fax: 208-869-5266

ITS/Warnock Hersey
530 Garcia Ave
Pittsburg CA 94565
Attn: Vijay Ruikar, P.E.

Telephone: 510-432-7344
Fax: 510-432-3576

Prototype Testing Only

SPECIFICATION USED FOR SEALED INSULATING GLASS

ASTM E774-92

Specification may be obtained by writing to . . .

ASTM
100 Barr Harbor Drive
West Conshohocken, PA 19428-2959

The program requires that the manufacturer shall certify and permanently label all sealed insulating glass units to class (C, CB, or CBA) through the Insulating Glass Certification Council (IGCC) Program.

Adopted: May 13, 1977
Revised: August 1, 1981
Revised: January 15, 1986

3933 U.S. Route 11
Cortland, NY 13045-0950
607-753-6711

PARTICIPANT'S AGREEMENT

I have read the PURPOSES of the INSULATING GLASS CERTIFICATION COUNCIL and hereby declare that I have a legitimate interest in the goals of the Council. I further declare that I do not manufacture insulating glass units nor am I employed by any company which is in such manufacturing business; as such I do not qualify to become a Licensee of the Insulating Glass Certification Council.

In view of the above declaration, I wish to be recognized at a "participant" in the Insulating Glass Certification Council.

Print Name: _____ Date: _____

Address: _____ Phone: _____

City: _____ State: _____ Zip: _____

My interest in the Council is: _____

Signature: _____

ARTICLE II

SECTION I - PURPOSES

The purposes of the Insulating Glass Certification Council shall be:

1. Promote public benefit by encouraging maintenance of the highest standards of excellence in the manufacture of insulating glass.
2. To encourage and cooperate in developing standards related to performance characteristics of insulating glass products.
3. To plan, organize, direct, coordinate and sponsor a certification program for insulating glass manufacturers to assure that their products meet applicable standards and/or performance requirements, adopted or approved by the Council.

ANNUAL FEE

The annual fee for a participant will be \$350.00 per company.

There will be no fee for public interest or consumer participants.

INSULATING GLASS CERTIFICATION COUNCIL, INC.
CERTIFICATION PROGRAM
for
SEALED INSULATING GLASS UNITS
LICENSE AGREEMENT

This agreement, made this _____ day of _____, 19____, by and between
INSULATING GLASS CERTIFICATION COUNCIL, INC., a corporation having its administrative
office at 3933 U.S., Route 11; Cortland, New York 13045, hereinafter called "LICENSOR"

and _____

having its principal office at _____

hereinafter called "LICENSEE"

WITNESSETH

WHEREAS, Licensor is sponsoring a Certification Program for Insulating Glass Units, which will provide for the validation of manufacturers certification of such products by means of independent laboratory testing to the requirements of the Specification(s) and applicable Test Method(s) as outlined in Appendix "A" and ASTM Standards; and

WHEREAS, The responsibilities of IGCC, the IGCC Administrator and the Independent Laboratories are limited to the tasks as set forth in this Certification Program; they do not endorse, warrant or guarantee products Validated or Certified thereunder; and

WHEREAS, Licensor is willing to accept participation in said Certification Program by all manufacturers of Insulating Glass Units under the terms set forth herein; and

WHEREAS, the Licensor's registered labels shall be permitted to be affixed to Insulation Glass Units complying with the pertinent requirements of the Program; and

WHEREAS, the Licensor shall contract for the complete administration of the Program and the Administrator shall contract for services with independent laboratories which meet the ethical, financial, and business experience

standards of the American Council of Independent Laboratories or National Society of Professional Engineers for performance of tests and other administrative duties as are herein provided; and

WHEREAS, the Licensor shall appoint a "Certification Committee" comprised of representatives of Participants and the Public Interest members of the Board of Governors acting as a liaison between Licensor, Licensees and interested parties; meetings of this committee shall be called by the

Chairman of the Certification Committee at least twice each year; and

WHEREAS, the procedural guide, to be developed in accordance with para-graph B.4 shall be adhered to both by the Licensor and the Licensee; and

WHEREAS, the Administrator shall conduct all aspects of the program in accordance with the highest nationally recognized standards for conduct of such a program; and

WHEREAS, Licensee is willing to participate in and support said Program under the terms and conditions set forth in the Agreement. Therefore, be it

RESOLVED, that it is agreed by and between the parties hereto as follows:

LICENSEE:

A. 1) Shall, upon the signing of this Agreement, have the same person or authorized agent who signs this agreement on its behalf and the engineer or other individual designated by such person also sign and submit to the Licensor the Certification Affidavit attached hereto as APPENDIX A.

A. 2) Shall allow the Administrator's representative, without prior notice, free access at any time during regular business hours, to Licensee's place of manufacture of Insulating Glass Units certified hereunder and to witness the manufacture of samples which are to be tested for compliance with the requirements. Licensee's refusal to permit access for inspection purposes hereunder may be due cause for removal of its entire product listing from the Certification Directory and the withdrawal of its rights to affix Certification Labels thereto. Acceptable reasons for not permitting

entrance for inspections would include strikes, acts of God, and circumstances beyond immediate control of the manufacturer. Areas

which may have been set aside for research or prototype development may be restricted. It is understood that the Administrator or his representative shall be allowed to pick up samples from the field for inspection or testing. It is understood that one test per year will be made on each model to be certified and that said tests will be made at the laboratory selected by the Administrator or Licensee from the approved list. Results of each test shall be promptly mailed to the IGCC Administrator. IGCC will notify the Licensee of compliance or non-compliance. It is further understood that routine expense of sampling and testing will be borne by the Licensee. The Licensor will charge each Licensee accordingly and contract with the Administrator. The Administrator will contract for testing with approved testing laboratories. Expenses for packaging, shipping, and purchasing of glass for testing will also be borne by the Licensee. These costs will be handled directly between the Administrator and each Licensee.

A. 3) Shall affix to each of its certified products the permanent Certification Label, number and class assigned by the Licensor:

a) Only at the time and place of manufacture; and

b) Only to Insulating Glass Units of Licensee's own manufacture, which have been so approved by the Licensor.

A. 4) Shall not sell, transfer or otherwise dispose of Certification Labels in any manner other than affixing to Licensee's certified production. A.

A. 5) Shall not affix hereafter the IGCC Certification Label, nor Participant's Certification Label registered with Licensor, to any product from which certification has been withdrawn or which is produced with a process basically different from the one used when certification was obtained. A model change shall be as defined by the IGCC Certification Committee.

A. 6) Shall upon a finding by the Licensor that a certified product of Licensee has been changed as defined by the Certification Committee, have thirty (30) days in which to submit a request for waiver of retest or request a new inspection and retest at Licensee's expense if no waiver is granted. Failure of Licensee to act as required immediately above shall constitute due cause for exclusion of this product from the Program.

A. 7) May withdraw a certified product from the Program by written declaration and request for removal of said product from the Licensor's listing, signed by the authorized representative of the Licensee.

A. 8) Shall use all practical means at its command continuously to assure that its products hereunder certified fully comply with the Specification requirements, and are manufactured in the same manner as test specimens.

A. 9) Shall refrain from using the terms inferring or claiming certification, validation, accreditation, etc in connection with advertising referring to products which have not been validated, or from which validation of certification claim has been withheld or withdrawn or any other statement or term which might be interpreted as compliance with this program.

A. 10) In connection with the advertising of model systems which the Licensor has approved and granted a certification number or label, the Licensee must use the following concepts as guidelines: Licensor (IGCC) Sponsors the Certification Program. Licensee (Manufacturer) certifies that the product is the same as the model which has been tested. Administrator

Validates the test results through inspections according to the Licensor's guidelines.

A. 11) Shall abide by the decision of the Administrator as to the

compliance or non-compliance of Licensee's products, determined in accordance with the requirements of the specification testing of such products. It is understood that the Administrator shall be the sole judge of compliance or non-compliance with the Specifications, for purposes of Licensor's certification of such a product under this Program. Where questions involving interpretation arise, the matter will be referred to the Certification Committee for ruling.

A. 12) Agrees that notice regarding the status of any of its certified products shall be carried in the Certification Directory.

A. 13) Shall pay the participation fees shown in the Schedule of Fees, which is APPENDIX B hereof, upon signing of this Agreement and at each annual renewal thereof. It is understood, that this Schedule of Fees may be changed from time to time by the Licensor.

A. 14) Agrees that the Administrator may, at his discretion, use any and all data, exclusive of Licensee's Company name, address, proprietary product designated or any other information which may provide clues as to the manufacture of the products, for the purpose of comparing test methods and correlating test methods with field performance, etc.

A. 15) Shall legibly and permanently mark each piece of its certified product in accordance with the marking requirements of the applicable standards and, in addition, include a symbol identifying the plant in which the product was made to comply with the standard, for the purpose of identification under this Certification Program.

A. 16) Shall furnish Licensor with any information regarding its product as may be necessary to properly identify Licensee's Certified Product for listing in Licensor's Certification Directory.

A. 17) Shall regularly mail to the Administrator, at the same time as such material is furnished others, copies of its catalogs and other literature excluding price and discount information, which such material list Licensee's products certified hereunder.

A. 18) Shall abide by and comply with all procedural details which the Administrator may prescribe for the implementation of the Certification Program, provided that such procedural details are not inconsistent with the purposes of this License Agreement.

A. 19) Shall have the right, at its option, to designate a nominee from Licensee's organization for consideration by the Board of Governors for appointment to the Certification Committee.

LICENSOR:

B. 1) Shall prepare and publish at least twice each year, with such interim supplements as may be desirable, a Certification Directory containing a listing of the Certified Insulating Glass Products which have been found by test to be in compliance with requirements of each Licensee then in good standing herewith. This directory shall include the Licensee's assigned Certification Number, Name, Location and qualified class or classes (CBA).

B. 2) Shall promptly mail substantial quantities of each Directory and supplement to door, sash, and building products manufacturers, glazing contractors, home builders, architects, regulatory agencies and code-making groups, and publicize the Directory to trade publications.

B. 3) Shall provide and maintain a list of approved laboratories qualified to perform tests required hereunder and to authorize tests herewith specified. Said list of approved laboratories is to be developed by the Certification Committee.

B. 4) Shall prepare and maintain a procedural guide and the standard forms which may be adopted for use by the Licensee and the approved laboratories in connection with the operation of the Certification Program.

B. 5) Shall hold all test reports and correspondence with Licensees and others, relating to Licensee's products or tests, in strict confidence, except for communication necessary to effect proper listing in the Certification Directory.

B. 6) Shall not list in or remove from the Certification Directory any product of Licensee except on due notification from the Administrator to do so, except as provided in paragraph A.7 above or because Licensee fails to pay applicable fees as provided in paragraph A.13 above.

B. 7) Shall enter into a contract with an independent agency, whereby this independent agency will act as Administrator of the Certification Program for and on behalf of Licensor, to provide and authorize all sampling and testing, review and approve test data, perform periodic evaluations or other duties and functions herein provided for.

IT IS FURTHER AGREED THAT:

C. 1) A certification test hereunder denotes and is limited to a test in accordance with the requirements of the appropriate specifications and related test methods.

C. 2) Each branch or affiliated plant of each manufacturer must be registered individually, and products therefrom tested and certified separately and apart from products manufactured in other plants or branches of any manufacturer.

C. 3) A procedure for handling complaints of non-compliance which provides for samples of like product to be provided by Licensee in

a specified manner for repetition of tests within thirty (30) days, the total cost of which, including test specimens, is to be borne by the complainant, unless the test proves non-compliance, in which case the costs will be borne by the Licensee; tests to be initiated by the Licensor promptly upon receipt of a complaint in writing along with the appropriate surety deposit.

C. 4) This agreement shall become effective on the date of signing and shall extend for a period of 12 months and shall be renewed automatically for successive periods of 12 months each, unless Licensor or Licensee, at least sixty (60) days prior to the date of expiration, gives notice in writing that cancellation is requested or unless revoked by licensor for causes set forth in this Agreement.

C. 5) If this agreement is terminated, then upon the effective date of such termination, Licensee shall:

a) Not affix the registered quality Certification Labels to any product which Licensee shall thereafter manufacture; and
b) Make no further reference to, or use of, Licensor's Certification Program or registered Certification Labels.

C. 6) Licensor, in the event it shall be necessary to exclude Licensee from participation in the Certification Program in accordance with the provisions hereof, may do so by giving Licensee thirty (30) days written notice of Licensor's termination of the License Agreement.

C. 7) The interpretation of this Agreement and the parties performance thereunder shall be governed by the laws of the State of Illinois; and both parties acknowledge and agree that any and all actions brought by Licensor or Licensee for the enforcement of any right or remedy hereunder must be instituted in the Court having jurisdiction thereof located in the State of Illinois.

C. 8) In the event any part or parts of this Agreement are found to be void, the remaining provisions shall nevertheless be binding with the same effect as though the void parts were deleted.

C. 9) The use of any IGCC Certified Label or registered participant's label on any unqualified product, or the use of any such registered Certification Label by a manufacturing or assembly or other facility other than that registered, will not be permitted by the Licensee, their employees, their representatives, and their agents. If the use of the IGCC or registered Certification Label in contravention of this Agreement is discovered, after a due process hearing review by the Certification Committee, the Licensor will have cause to institute all or any of the following actions:
a) Revocation of license. b) Imposition of a fine of one thousand dollars (\$1,000). c) Legal action preventing the Licensee from having IGCC or registered Certification Labels printed, attached, or used in any manner, the entire cost of such legal action to be borne by the Licensee.

C. 10) The Licensee shall pay to the Licensor reasonable attorney's fees, including attorney's fees for services in appellate proceedings, occasioned by reason of Licensee's breach of any of the terms of this Agreement, provided that Licensee's breach shall have been determined by judgement of a court of competent jurisdiction and if such judgement be appealable that the time for Licensee's appeal therefrom is terminated. This shall not be construed so as to prohibit out-of-court settlement.

C. 11) In the event Licensor promptly notified all those to whom it has sent the then most recent issue of the Certification Directory or Supplement thereto, as well as the National Better Business Bureau and the trade press, regarding any incorrect listing or reference to Licensee's product published in any Certification Directory, supplement thereto, or elsewhere, Licensee agrees not to hold Licensor liable in any way for any damage caused by such incorrect listing or reference, unless such damage was the result of an intentional tort, willful act or gross negligence by Licensor.

C. 12) Licensee shall indemnify and hold licensor harmless as to any expense whatsoever for any claims, losses, or defense of claims or losses, which may be asserted against Licensor by reason of this Agreement and services performed hereunder, shall name the Licensor, as its interest may appear, as an additional insured party on any products liability insurance policy owned by the Licensee which affects those products of the Licensee certified under this Agreement; and proof of such coverage shall be sent by the Licensee to the Licensor within fifteen (15) days from the date of certification or the date such coverage is secured, whichever first occurs.

C. 13) Neither party shall make use of the others trademarks, trade names or name in any manner without the prior written approval of the other, provided each party hereby authorizes the other, during the term of this Agreement, to state that the Licensee is a participant in this Certification Program. THIS LICENSE AGREEMENT may not be transferred, assigned, nor otherwise disposed of to any other company, individual, or successor company.

APPENDIX A

INSULATING GLASS CERTIFICATION COUNCIL
CERTIFICATION PROGRAM
for
SEALED INSULATING GLASS UNITS

AFFIDAVIT (execute one copy for each model)

The undersigned hereby certify and state, on behalf of Licensee:

_____, located at: _____,
_____, that all of its Insulating Glass
Units, described herein and submitted for validation under the Insulating Glass
Certification Council Program and to which registered Certification Labels will be
affixed by said Licensee, will be produced in the same manner and to the same
specification as the test specimens submitted to and successfully passed by the
authorized testing laboratory and within the guidelines as defined in the Procedural
Guide.

FOR LICENSEE: _____
(Must be same signature as License Agreement and notarize below)

(Title-Corporate Officer)

Licensee Engineer or other designee:

(Name)

(Title)

Model to be certified; Describe briefly
Attach additional sheets if necessary.

Test laboratory to use _____
Specification Class(es) to test to: _____

ASTM E773-88 & E774-88

State of)
) SS
County of)

Class C _____
Class CB _____
Class CBA _____

On this _____ day of _____, 19____, before me personally appeared _____
_____, who being first duly sworn, declared the facts set forth in
the foregoing statement to be true and correct to the best of their knowledge and
belief.

(Notary Public)

Mail original to Insulating Glass Certification Council, 3933 US Route 11, Cortland,
NY 13045-0950.

LICENSEE: Company _____

Street Address _____

City and State _____

Company Phone Number _____

Signed By _____ Title _____ Zip _____

(Same person must have notarized signature on Appendix A.)

LICENSOR: INSULATING GLASS CERTIFICATION COUNCIL

By _____ Title _____ Date _____

Sign and mail two copies to:

Insulating Glass Certification Council
3933 U S Route 11
PO Box 2040
Cortland, New York 13045-0950

A copy signed by Licensor
will be returned to Licensee.

RIDER TO IGCC CERTIFICATION PROGRAM MARK LICENSE AGREEMENT BETWEEN INSULATING GLASS
CERTIFICATION COUNCIL, INC. (LICENSOR) AND

(LICENSEE)

DATED: _____

For adequate and valuable consideration, the receipt of which is hereby acknowledged, it is agreed by and between Licensor and Licensee:

A. This Rider modifies and supplements the entire IGCC Program License Agreement (the "Agreement") and each provision thereof and any prior riders thereto, between Licensor and Licensee as stated below.

B. The Agreement is revised to provide further as follows:

1. "Whereas Clause No. 1" is amended and restated to provide as follows (with new provisions shown underlined):

"Whereas, Licensor is sponsoring a Certification Program for insulating glass units, providing for (1) the validation of a manufacturer's certification of such products by means of independent laboratory testing and the requirements of the Specification(s) and applicable Test Method(s) as outlined in Appendix "A" and ASTM Standards and under the further terms and conditions of the Certification Program set forth in this Agreement and the Program's Procedural Guide, and also providing for (2) the stipulation by each such manufacturer that the manufacturer maintains a quality assurance program which covers the production of all the units to which above clause (1) refers."

2. "Whereas Clause No. 8" is amended and restated to provide as follows (with new provisions shown underlined):

"Whereas, the Administrator shall conduct all aspects of the Program in accordance with the highest nationally recognized standards for the conduct of such a program, including HUD standards for the accreditation of the Program and the Administrator as set forth in HUD's "Use of Materials Bulletin No. 82" ("HUD Building Product Standards and Certification Program for Sealed Insulating Glass Units"), which requires an accredited Program to include a quality assurance provision such that all participating manufacturers shall have quality assurance programs covering the production of the units to which Whereas Clause No. 1 above refers."

3. Section A(8) is amended and restated to provide as follows (with new provisions shown underlined):

"[Licensee] shall use all practical means at its command continuously to assure that its products hereunder certified fully comply with the Specification requirements, and are manufactured in the same manner as test specimens, and are subject to a quality assurance program maintained by Licensee, and Licensee shall so stipulate to the Administrator's representatives during the periodic visits of said representatives to Licensee's facilities described above in Section A(1)

or when otherwise requested by the Administrator".

4. Section B(8) is added to provide as follows:

"[Licensor] shall conduct the Program in accordance with HUD standard for HUD accreditation of the Program as set forth in HUD's 'Use of Materials Bulletin No. 82' (HUD Building Product Standards and Certification Program for Sealed Insulating Glass Units)".

AGREED By and Between:

LICENSOR

INSULATING GLASS CERTIFICATION COUNCIL, INC.

By: _____

Heather L. Almeida
Administrative Manager
Intertek Testing Services NA, Inc.

LICENSEE

(Company Name)

By: _____

(Person's Name Signed)

(Person's Name Printed)

Its _____

(Corporate Title)

IGCC DIRECTORY ORDER FORM

PLEASE SEND . . . _____ COPIES OF IGCC® CERTIFIED
PRODUCTS DIRECTORY AT \$2.00/COPY = \$ _____ TO:

Name

Company

Address

City

State

Zip Code

CHECK MUST ACCOMPANY ORDER AND BE MADE PAYABLE TO IGCC



3933 US Route 11
P. O. Box 2040
Cortland, NY 13045-0950

ADDRESS CORRECTION REQUESTED

BULK RATE
U.S. POSTAGE
PAID
HAZLETON, PA
PERMIT NO. 281