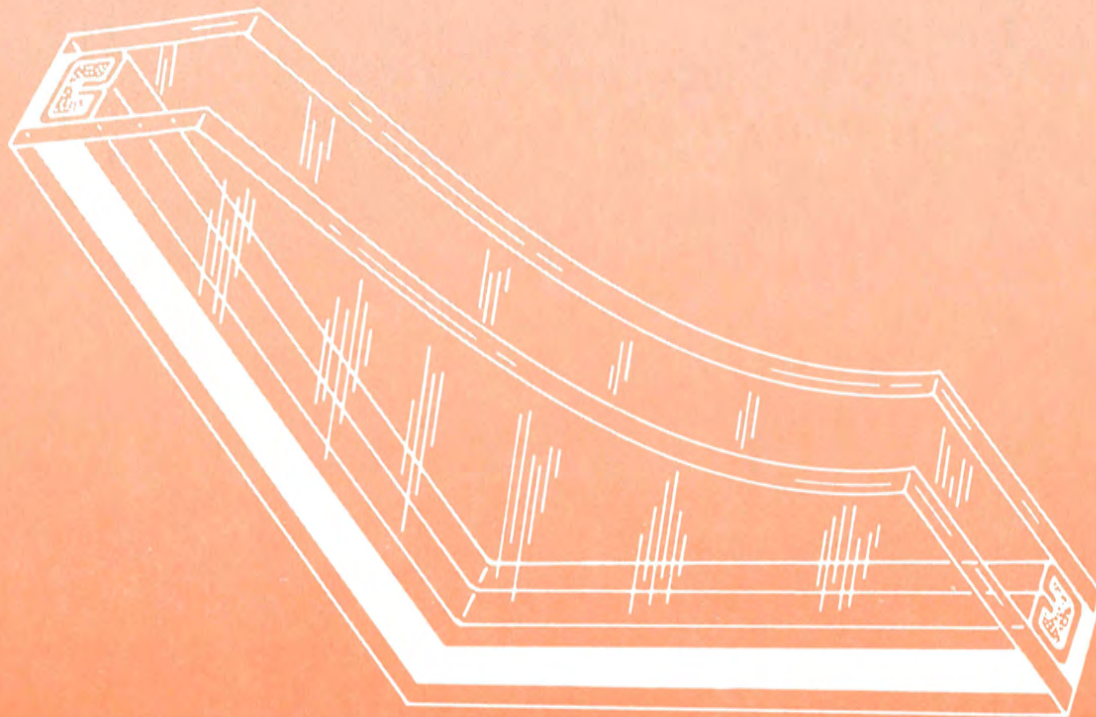


CERTIFIED PRODUCTS DIRECTORY

SEALED INSULATING GLASS
FEBRUARY 1, 1990

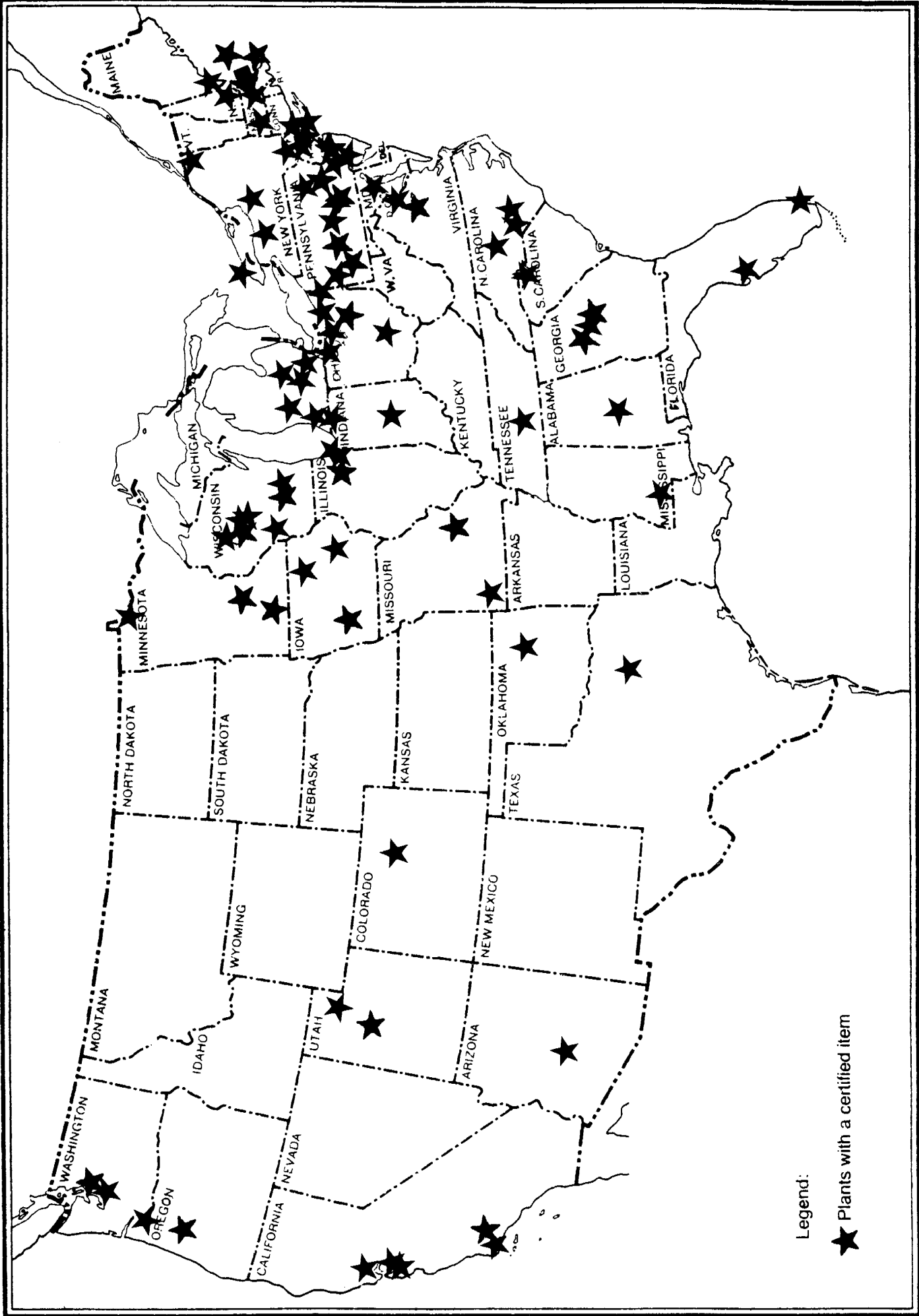


INSULATING GLASS

IGCC[®]

CERTIFICATION COUNCIL

CREDIBILITY IN INDUSTRY CERTIFICATION THROUGH ACTIVE PUBLIC PARTICIPATION



Legend:
★ Plants with a certified item

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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, B, or A, 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 product 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 action, 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 for 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 Glass Products 12900 Nicholson Rd PO Box 815547 Dallas TX 75381 214-484-3691 ACI 141 IGCC® CBA '90	IGCC-702 IGCC-703 IGCC-704	CBA CBA CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS	B/HMB B/S HMB
Acorn Bldg Components Inc 87 Taylor St Quincy MI 49082 517-639-3465 ABC IGCC® CBA '90	IGCC-362 IGCC-365	CBA CBA	NYK NYK	U U	AL AL	MS MS	PS MPS
AFG Glass Inc 8484 Keele St Concord, Ontario L4K 2S3 CANADA 416-669-1930 AFG TOR SEALITE IGCC® CBA '90	IGCC-632 IGCC-679	CBA CBA	BC/ALJ/L BC/ALJ/L	U U	AL AL	MS MS	B/PS B/S
Air Master Corp 1211 Ford Rd PO Box 406 Bensalem PA 19020 215-638-8600 AIRMASTER IGCC® CBA '90	IGCC-377	CBA	NYK	U	AL	MS	HMB
Alcan Bldg Products 4411 Jacque St Richmond VA 23230 804-358-8368 ABP IGCC® CBA '90	IGCC-774	CBA	PLK	U	AL	MS	HMB
All Seasons Glass Co Inc 231 Herbert Ave Closter NJ 07624 201-767-8300 ALL SEASONS IGCC® CBA '90	IGCC-507 IGCC-509 IGCC-724	CBA CBA CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS	PU HMB HMB/PU
Alpen Inc 5400 Spine Boulder CO 80301 303-530-1150 ALPEN IGCC® CBA '90	IGCC-720	CBA	BC/DCK	SCF	ST	MS/SG	PU
Alside Window Company-Midwest 3780 44th Ave S W Cedar Rapids IA 52401 319-390-4237 ALMW IGCC® CBA '90	IGCC-688	CBA	NYK	U	AL	MS	HMB

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
American Flat Glass Distributors						
4520 Willow Pkwy	IGCC-625	CBA	NYK	U	AL	MS
Cuyahoga Heights OH 44125	IGCC-797	CBA	NYK	U	AL	MS
216-341-2110	IGCC-798	CBA	NYK	U	AL	MS
AFGD 2 IGCC® CBA '90						
American Flat Glass Distributors						
3200 Austell Rd	IGCC-141	CBA	NYK	U	AL	MS
Marietta GA 30060	IGCC-687	CBA	NYK	U	AL	MS
404-434-2041						
AFGD 1 IGCC® CBA '90						
American Tempering Inc						
2944 Samuel Dr	IGCC-795	CBA	NYK	U	AL	MS
Bensalem PA 19020	IGCC-796	CBA	NYK	U	AL	MS
215-638-4811						
ATI IGCC® CBA '90						
Anderson Glass & Mirror Products						
2816 Morse Rd	IGCC-332	CBA	NYK	U	AL	MS
Columbus OH 43229						
614-476-4877						
AIU 01 IGCC® CBA '90						
Antcliff Aluminum Products						
2417 E Judd Rd	IGCC-471	CBA	NYK	U	AL	MS
Burton MI 48529						
313-742-5693						
AAP IGCC® CBA '90						
Assurance Glass Co						
PO Box 1452	IGCC-420	CBA	NYK	U	AL	MS/SG
Selma AL 36701						
708-875-1900						
AGCO IGCC® CBA '90						
or						
AGCO 01 IGCC® CBA '90						
B & G Glass & Mirror Co Inc						
11866 Hubbard	IGCC-466	CBA	NYK	U	AL	MS
Livonia MI 48150	IGCC-467	CBA	NYK	U	AL	MS
313-522-0300						
B&G IGCC® CBA '90						
J E Berkowitz Inc						
Delsea Dr & Harvard Ave	IGCC-352	CBA	NYK	U	AL	MS
Route 47	IGCC-786	CBA	NYK	U	AL	MS
Westville NJ 08093						
609-456-7800						
JEB IGCC® CBA '90						

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Better Thermo Unit 2+2 1530 Landmeier Rd PO Box 1446 Elk Grove Village IL 60007 312-593-2980 BTUM IGCC® CBA '90	IGCC-164 CBA IGCC-659 CBA	ALK/S ALK/S	U U	AL AL	MS/SG MS/SG	B/PS B/S
Binning's Building Products Inc Walser Rd PO Box 868 Lexington NC 27292 704-249-9193 BBP IGCC® CBA '90	IGCC-733 CBA	NYK	U	AL	MS	HMB
Boss Glass Ind 335 Temple Hill Rd New Windsor NY 12550 914-562-8500 BGI IGCC® CBA '90	IGCC-502 CBA	NYK	U	AL	MS	B/S
Capitol Glass & Aluminum Corp 3515 S 300 W Salt Lake City UT 84115 801-268-2521 CGAC IGCC® CBA '90	IGCC-499 CBA	PLK	U	AL	MS/SG	B/PS
Capitol Products Corp 6034 Carlisle Pike Mechanicsburg PA 17055 717-766-7661 CAP 01 IGCC® CBA '90	IGCC-643 CBA	NYK	U	AL	MS	PU
Cardinal IG Iowa 25 N PO Box 99 Greenfield IA 50849 515-743-2134 CARDINAL 2 IGCC® CBA '90 or CIG 2 IGCC® CBA '90	IGCC-311 CBA	BC/ALK/S/AP	U/C	AL	MS	B/S
Cardinal IG 7115 W Lake St Minneapolis MN 55426 612-929-0317 CARDINAL 1 IGCC® CBA '90 or CIG 1 IGCC® CBA '90	IGCC-244 CBA	BC/ALK/S/AP	U/C	AL	MS	B/S
Cardinal IG 1011 E Madison St Spring Green WI 53588 608-588-7415 CARDINAL 3 IGCC® CBA '90 or CIG 3 IGCC® CBA '90	IGCC-324 CBA	BC/ALK/S/AP	U/C	AL	MS	B/S

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Cardinal IG 1620 Town Line Rd Tomah WI 54660 608-372-3300 CARDINAL 4 IGCC® CBA '90 or CIG 4 IGCC® CBA '90	IGCC-756	CBA	BC/ALK/S/AP	U	AL	MS B/S
James A Cassidy Co Inc 12100 Baltimore Ave Beltsville MD 20705 301-953-7700 JAC IGCC® CBA '90	IGCC-638	CBA	NYK	U	AL	MS B/MPS
Croft Metals Inc Hwy 71 PO Drawer 90 Lumber Bridge NC 28357 919-843-3391 CMI 92-2 IGCC® C '90	IGCC-728	C	NYK	U	AL	MS HMB
Croft Metals Inc Hwy 51 Magnolia MS 39652 601-783-3188 CMI 92-1 IGCC® CBA '90	IGCC-727	CBA	NYK	U	AL	MS HMB
Custom Glass Products 5906 Mesker St PO Box 189 Schofield WI 54476 715-359-2252 CGP IGCC® CBA '90	IGCC-661 IGCC-745	CBA CBA	BC/NYK BC/NYK	U U	AL AL	MS MS PU B/PU
Custom Glass Prod of Carolina Inc 1475 Harrison Rd PO Box 2049 Salisbury NC 28144 704-633-4946 CGPC IGCC® CBA '90	IGCC-782	CBA	NYK	U	AL	MS PU
Dura-Seal Glass Co 1090 N Saginaw St Durand MI 48429 517-288-5358 DURA-SEAL IGCC® CBA '90	IGCC-601	CBA	NYK	U	AL	MS B/PS
Dykstra Brothers Glass Co 4257 30th St Burnips MI 49314 616-896-8341 DYK IGCC® CBA '90	IGCC-729 IGCC-732	CBA CBA	NYK NYK	U U	AL AL	MS MS B/PS B/S

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Ecker Manufacturing Corp 4055 10th Ave New York NY 10034 212-304-1300 ECKER IGCC® CBA '90	IGCC-427 CBA IGCC-448 CBA	NYK NYK	U U	AL AL	MS MS	HMB PU
Economy Glass Corp 365 Dorchester Ave (Rear) South Boston MA 02127 617-269-5000 ECONOLITE IGCC® CBA '90	IGCC-218 CBA	BC/NK/WL	U	AL	MS	B/PS
Edge Seal Technologies Inc 11 Industry Dr Bedford OH 44146 216-439-0980 EST IGCC® CBA '90	IGCC-734 CBA	NYK	U	AL	MS	HMB
Energipane Insulating Glass Corp 4716 W Lake St Chicago IL 60644 312-921-0200 ENERGIPANE INSULATING GLASS CORP IGCC® CBA '90	IGCC-686 CBA	NYK	U	AL	MS/SG	B/MPS
Falconer-Lewistown Inc One Belle Ave Lewistown PA 17044 717-242-2571 FALCONSEAL IGCC® CBA '90	IGCC-566 CBA IGCC-613 CBA	NYK NYK	U U	AL AL	MS MS	B/MPS B/S
Floral Glass Ind Inc 224 Sandbank Rd Cheshire CT 06410 203-272-2211 INSULA 2 IGCC® CBA '90	IGCC-801 CBA	NYK	U	AL	MS	B/S
Floral Glass & Mirror Inc 895 Motor Pkwy Hauppauge NY 11787 516-234-2200 INSULA 1 IGCC® CBA '90	IGCC-804 CBA IGCC-805 CBA	NYK NYK	U U	AL AL	MS MS	B/S B/S
Galaxy Mfg Co of CNY Inc 109 Monarch Dr Liverpool NY 13088 315-451-5353 GALAXY IGCC® CBA '90	IGCC-691 CBA	NYK	U/C	AL	MS	PU

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
General Glass Corp 11205 E 37th Ave PO Box 390711 Denver CO 80239 303-371-5511 DUAL-PANE IGCC® CBA '90	IGCC-645 CBA IGCC-762 CBA	NYK NYK	U U	AL AL	MS/SG MS/SG	B/S HMB
Glasmont Corp 4024 Millersville Rd Indianapolis IN 46205 317-545-4301 GC IGCC® CBA '90	IGCC-368 CBA IGCC-653 CBA IGCC-783 CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS	PU B/S B/MPS
Glasstemp Inc 1001 Foster Ave Bensenville IL 60106 312-595-3750 GLASSTEMP IGCC® CBA '90	IGCC-538 CBA IGCC-753 CBA	NYK NYK	U U	AL AL	MS/SG MS/SG	B/MPS B/S
Good News Glass 3640 Main St Springfield MA 01107 413-737-8971 GNG IGCC® CBA '90	IGCC-591 CBA	NYK	U	AL	MS/SG	B/S
Graham Architectural Products Corp 1551 Mt Rose Ave York PA 17405 717-849-8100 GRAHAM IGCC® CBA '90	IGCC-167 CBA IGCC-353 CBA	DCK NYK	U U	AL AL	MS/SG MS/SG	HMB HMB
Guardian Industries Corp 14600 Romine Rd Carleton MI 48117 313-962-2252 GRD 22 IGCC® CBA '90	IGCC-540 CBA IGCC-541 CBA	NYK NYK	U U	AL AL	MS MS	B/S B/MPS
Harvey Ind Inc 725 Huse Rd Manchester NH 03103 603-622-4232 HARVEY IGCC® CBA '90	IGCC-504 CBA	NYK	U	AL	MS/SG	HMB
Havlin-Witkin Corp Div of ACI Glass Products 750 Walsh Ave Santa Clara CA 95052 408-727-4711 ACI NORTH IGCC® CBA '90	IGCC-598 CBA	NYK	U	AL	MS/SG	B/S

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Hoffer's Inc 5103 Janice Ave Schofield WI 54476 715-359-2432 H. I. IGCC® CBA '90	IGCC-554	CBA	NYK	U	AL	MS B/MPS
HGP Architectural Glass 5334 Barthel Dr Albertville MN 55301 612-497-3212 POLARPANE 22 IGCC® CBA '90	IGCC-317 IGCC-360 IGCC-621	CBA CBA CBA	ALK/S ALK/S NYK	U U/C U	AL AL AL	MS MS MS B/PU B/S B/PU
HGP Architectural Glass 1500 Glen Ave Moorestown NJ 08057 609-234-9222 POLARPANE 12 IGCC® CBA '90	IGCC-494 IGCC-495	CBA CBA	NYK NYK	U U	AL AL	MS MS B/S B/PU
HGP Architectural Glass 1900 Midland St PO Box 11339 Rock Hill SC 29731 803-366-5167 POLARPANE 44 IGCC® CBA '90	IGCC-497 IGCC-721	CBA CBA	NYK NYK	U U	AL AL	MS MS B/S B/PU
HGP Architectural Glass 1548 Stone Ridge Dr Stone Mountain GA 30083 404-939-6900 POLARPANE 42 IGCC® CBA '90	IGCC-419 IGCC-547	CBA CBA	NYK NYK	U U	AL AL	MS MS B/S B/MPS
HGP Architectural Glass PO Box 368 Warrenton MO 63383 314-456-3452 POLARPANE 21 IGCC® CBA '90	IGCC-710 IGCC-711	CBA CBA	ALK/S ALK/S	U U	AL AL	MS MS B/S B/MPS
Hurd Millwork Co 520 S Whelen Ave PO Box 319 Medford WI 54451-0319 715-748-2011 HURD 01 IGCC® CBA '90	IGCC-276	CBA	NYK	U	AL	MS MPS
Hurd Millwork Co S Prospect St PO Box 437 Merrill WI 54452 715-536-5581 HURD 02 IGCC® CBA '90	IGCC-372	CBA	NYK	U	AL	MS MPS

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Independent Insulating Glass Co 6312 W 74th St Bedford Park IL 60638 312-458-7300 INDE-PANE CHGO IGCC® CBA '90	IGCC-328 CBA IGCC-329 CBA	NYK NYK	U U	AL AL	MS MS	B/MPS B/S
Independent Insulating Glass/SE 520-B Wharton Circle S W Atlanta GA 30336 312-458-7300 INDE-PANE ATL IGCC® CBA '90	IGCC-500 CBA IGCC-501 CBA	PLK PLK	U U	AL AL	MS MS	B/MPS B/S
Independent Insulating Glass/SW 4526 Bronze Way Dallas TX 75236 214-263-0455 INDE-PANE DALLAS IGCC® CBA '90	IGCC-582 CBA IGCC-583 CBA IGCC-630 CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS	MPS B/MPS B/S
India Glass & Mirror Inc R D #1 Box 237-A Altona NY 12910 518-236-7751 I G & M IGCC® CBA '90	IGCC-754 CBA	NYK	U	AL	MS/SG	B/S
Insulated Glass of Indiana Inc 4375 N Sellers St Indianapolis IN 46226 317-547-3564 IGOI IGCC® CBA '90	IGCC-757 CBA	NYK	U	AL	MS	PS
Insulpane of Connecticut Inc 30 Edmond St Hamden CT 06517 203-865-8212 INSULPANE OF CONN IGCC® CBA '90	IGCC-770 CBA	NYK	U	AL	MS	B/PU
Interpane Coatings Inc 201 Interpane La PO Box 26 Deerfield WI 53531 608-764-5461 INTERPANE COATINGS IGCC® CBA '90	IGCC-682 CBA IGCC-793 CBA	NYK BC/NYK	U U	AL AL	MS MS	B/S B/PU
Jersey Tempered Glass Inc 2035 Briggs Rd Mt Laurel NJ 08054 609-273-8700 JTG IGCC® CBA '90	IGCC-689 CBA IGCC-750 CBA	NYK NYK	U U	AL AL	MS MS	PU B/PU

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Labglas Inc 4625 S 32nd St Phoenix AZ 85040 602-243-4277 LAB IGCC® CBA '90	IGCC-418	CBA	NK/W	U	AL	MS B/S
LBL Inc 14041 N E Sandy Blvd PO Box 20577 Portland OR 97220 503-253-6653 LBL 01 IGCC® CBA '90	IGCC-572	CBA	BC/NK	U	-	BSS
Lupton Glass Inc 2381-A Philmont Ave Huntingdon Valley PA 19006 215-947-7100 QUAKERPANE IGCC® CBA '90	IGCC-712 IGCC-716	CBA CBA	NK/W NYK	U/C U	AL AL	MS MS B/S B/S
Mannix Industries Inc 345 Crooked Hill Rd Brentwood NY 11717 516-231-0800 MANNIX IGCC® CBA '90	IGCC-446 IGCC-672 IGCC-673 IGCC-674	CBA CBA CBA CBA	NYK NYK NYK NYK	U U U U	AL AL AL AL	MS MS MS MS MPS HMB/MPS HMB HMB
Marvin Windows PO Box 100 Warroad MN 56763 218-386-1430 MARVIN 01 IGCC® CBA '90	IGCC-303 IGCC-496	CBA CBA	NYK NYK	U U	AL AL	MS MS PU B/PU
MGL Glass Div/Milco Milco Apogee Wausau Group 7555 Stewart Ave PO Box 1366 Wausau WI 54402 715-842-0581 MGL IGCC® CBA '90	IGCC-771 IGCC-772 IGCC-773	CBA CBA CBA	BC/NYK BC/ALK/S BC/ALK/S	U U U	AL AL AL	MS/SG MS/SG MS/SG MPS B/MPS B/S
Nashville Tempered Glass Corp 1860 Air Lane Dr Nashville TN 37210 615-889-6350 NTGC IGCC® CBA '90	IGCC-752	CBA	NYK	U	AL	MS/SG B/PS

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Norco Windows Inc PO Box 140 Hawkins WI 54530 715-585-6311 NORCO IGCC® C '90	IGCC-301 C	NYK	U	AL	MS/SG	MPS
Patio Enclosures Inc 720 E Highland Rd Macedonia OH 44056 216-468-0700 PEI IGCC® CBA '90	IGCC-800 CBA	NYK	U	AL	MS	B/PU
Perilstein Distributing Corp 612 Beatty Rd Monroeville PA 15146 412-856-9050 PERMA-PANE IGCC® CBA '90	IGCC-765 CBA	NYK	U	AL	MS/SG	B/MPS
PPG Industries Inc 501 Second Ave Ford City PA 16226 412-763-1211 PPG-5 IGCC® CBA '90	IGCC-578 CBA	BC/NK/W	U/C	AL/AP	MS	B/S
Rochester Insulated Glass Inc Merrick St Ext Manchester NY 14504 716-289-3611 RIG, INC. IGCC® CBA '90	IGCC-451 CBA	NYK	U	AL	MS	B/S
SIGCO Inc 299 Presumpscott St Portland ME 04103 207-775-2676 SIGCO IGCC® CBA '90	IGCC-654 CBA	NYK	U	AL	MS	PS
S N E Corp 910 Cleveland Ave PO Box 1007 Wausau WI 54401 715-845-1161 SNE IGCC® CBA '90	IGCC-553 CBA	NYK	U	AL	MS	B/PU
Solar Seal Co 55 Bristol Dr South Easton MA 02375 508-238-0112 SOLAR SEAL IGCC® CBA '90	IGCC-117 CBA IGCC-163 CBA IGCC-748 CBA	DCK DCK NYK	U U U	AL AL AL	MS MS MS	B/PS B/S B/PS

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Solar Seal South Inc 100 S Leadbetter Rd Ashland VA 23005 804-798-6051 SSS IGCC® CBA '90	IGCC-518 CBA IGCC-617 CBA	DCK DCK	U U	AL AL	MS MS	B/PS B/S
Spectrum Glass Products PO Box 408 Clinton NC 28328 919-592-7101 THERMOPANE INSULATING GLASS IGCC® CBA '90 or SPECTRUM GLASS PRODUCTS IGCC® CBA '90	IGCC-650 CBA IGCC-730 CBA	ALK/S NK	U/C U/C	AL AC	MS -	B/S BSS/S
Sunglas Products Inc 844 W 30th St PO Box 963 Claremore OK 74018 918-342-3344 SUNGLAS 01 IGCC® CBA '90	IGCC-459 CBA	BC/DCK	U/C	AL	MS/SG	B/S
TAS Inc 2819 W 167th St PO Box 337 Hazel Crest IL 60429-0337 708-331-3644 TAS, INC. IGCC® CBA '90	IGCC-713 CBA IGCC-714 CBA	NYK NYK	U U	AL AL	MS/SG MS/SG	B/PU B/PS
TAS North Inc 4000 Central Dr Wausau WI 54401 715-845-9251 TAS NORTH, INC. IGCC® CBA '90	IGCC-767 CBA IGCC-768 CBA	NYK NYK	U U	AL AL	MS MS	B/PS B/PU
Tempglass Eastern Inc 600 Heraeus Blvd Buford GA 30518 404-945-6200 TGE IGCC® CBA '90	IGCC-384 CBA	NYK/W	U/C	AL	MS	B/S
Tempglass Inc 291 "M" St Willis Day Industrial Park Perrysburg OH 43551 419-666-2000 TEMPGLASS IGCC® CBA '90	IGCC-722 CBA	NYK	U	AL	MS	B/S
Tempglass Southern Inc 1101 Fountain Pkwy Grand Prarie TX 75050 214-647-4028 TGS IGCC® CBA '90	IGCC-681 CBA	NYK	U	AL	MS	B/S

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
The Glass Factory Inc 5012 Expressway Dr S Ronkonkoma LI NY 11779 516-588-4844 SUPER-SEAL II IGCC® CBA '90	IGCC-790	CBA	NYK	U	AL	MS B/S
ThermaGlas Inc 1930 S 23rd St PO Box 1426 Saginaw MI 48605 517-754-7461 TG 01 IGCC® CBA '90	IGCC-585 IGCC-586	CBA	NYK	U	AL	MS MS B/PS B/S
Thermolite Inc 337 E Gibson St Scranton PA 18509 717-969-1957 THERMOLITE IGCC® CBA '90	IGCC-646	CBA	NYK	U	AL	MS HMB
TRACO (Three Rivers Aluminum Co) Cranberry Ind Pk PO Box 805 Warrendale PA 15095 412-776-7000 TRACO IGCC® CBA '90	IGCC-439	CBA	BC/NK/W	U	AL	MS B/S
Vega Glass Center of Virginia Inc 8384-C Terminal Rd Lorton VA 22079 703-550-7982 VGC IGCC® CBA '90	IGCC-548	CBA	NYK	U	AL	MS B/PS
Viracon Inc 800 Park Dr PO Box 248 Owatonna MN 55060 507-451-9555 VIRACON IGCC® CBA '90	IGCC-169	CBA	BC/ALK/S	U/C	AL	MS B/S
Viracon West 909 Aldridge Rd Vacaville CA 95688 707-446-4500 VIRACON WEST IGCC® CBA '90	IGCC-238 IGCC-791	CBA	BC/ALK/S ALK/S	U U/C	AL AL	MS MS B/S B/S
Weatherproof Inc 385 Watts Rd Jackson MI 49203 517-764-1330 WEATHERPROOF IGCC® CBA '90	IGCC-580	CBA	NYK	U	AL	MS PU

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant	
Weather Shield Mfg Inc 2990 S 8th W Route 1 Box 103 Logan UT 84321 801-753-6590 WS 12 IGCC® CBA '90	IGCC-277	CBA	NYK	U	AL	MS	PU
	IGCC-557	CBA	NYK	U	AL	MS	B/PU
Weather Shield Mfg Inc 675 E Allman St PO Box 309 Medford WI 54451 715-748-2100 WS 02/03 IGCC® CBA '90	IGCC-178	CBA	NYK/MB	U	AL	MS	PU
	IGCC-408	CBA	NYK/MB	U	AL	MS	B/PU
Weather-Tite Mfg Co 645 E Erie Ave Philadelphia PA 19134 215-426-5350 WEATHER-TITE IGCC® CBA '90	IGCC-736	CBA	NYK	U	AL	MS	HMB
Winchester Industries Route 286 Box 160 Saltsburg PA 15681 412-639-3551 WI IGCC® CBA '90	IGCC-701	CBA	NYK	U	AL	MS	MPS

Joyce Devine - Consumer

412-874-6291

Has this on her window

Weather TITE-IGCC-
CBA 90

and would like to know
who the manufacturer
is.

CERTIFIED PRODUCTS KEY

Sealant:

PS = Polysulfide
 PU = Polyurethane
 B = Polyisobutylene
 S = Silicone
 HMB = Hot melt butyl
 BSS = Butyl sealant spacer
 MPS = Modified Polysulfide

Corner:

ALK = Aluminum key
 DCK = Die cast key
 NYK = Nylon key
 PLK = Plastic key
 NK = No key
 BC = Bent Corners
 AP = Aperture plug
 MB = Muntin bars

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

Desiccant:

MS = Molecular sieve
 SG = Silica gel
 MS/SG = Blend of molecular sieve
 and silica gel

Spacer:

AL = Aluminum
 ST = Steel
 AC = Aluminum Channel
 AP = Aperture plug

Substrate:

U = Uncoated
 U/C = Uncoated/Coated
 SCF = Suspended Coated Film

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 in the IGCC Program.

MANUFACTURERS

ALSIDE WINDOW CO	SACRAMENTO, CA
ALSIDE WINDOW CO S E	KINSTON, NC
AMERICAN FLAT GLASS DIST	BIRMINGHAM, AL
AMERICAN FLAT GLASS DIST	CHARLOTTE, NC
AMERICAN FLAT GLASS DIST	FALL RIVER, MA
AMERICAN FLAT GLASS DIST	HAMILTON, OH
AMERICAN FLAT GLASS DIST	JACKSONVILLE, FL
AMERICAN FLAT GLASS DIST	MARIETTA, GA
AMERICAN FLAT GLASS DIST	POWELL, TN
AMERICAN FLAT GLASS DIST	RICHMOND, VA
AMERICAN FLAT GLASS DIST	SCOTIA, NY
ANTCLIFF ALUMINUM PRODUCTS	BURTON, MI
ASSURANCE GLASS CO	SELMA, AL
J E BERKOWITZ INC	WESTVILLE, NJ
BOSS GLASS INDS	NEW WINDSOR, NY
CAPITOL PRODUCTS CORP	MECHANICSBURG, PA
CROFT METALS INC	LUMBER BRIDGE, NC
ECKER MFG CORP	NEW YORK, NY
ELLSTROM MFG INC	SEATTLE, WA
FLORIAN GREENHOUSE	WEST MILFORD, NJ
GENERAL GLASS CORP	DENVER, CO
GLASMONT CORP	INDIANAPOLIS, IN
HOFFER'S INC	SCHOFIELD, WI
HGP OF LOUISVILLE	LOUISVILLE, KY
HGP ARCHITECURAL GLASS	WARRENTON, MO
INDIA GLASS & MIRROR INC	ALTONA, NY
INTERPANE COATINGS	DEERFIELD, WI

"PROTOTYPE IN PROGRESS"

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

MANUFACTURERS

INTERSTATE GLASS CO INC	SOUTH BEND, IN
LABGLAS INC	PHOENIX, AZ
LAMINATED GLASS CORP	PLYMOUTH MEETING, PA
LUPTON GLASS INC	HUNTINGDON VALLEY, PA
MANNIX INDS INC	BRENTWOOD, NY
MICHAEL'S WHOLESALE GLASS	POWDER SPRINGS, GA
PPG INDS INC	DENVER, CO
REPCO	BENSALEM, PA
ROYAL PRIME INC	ELIZABETH, NJ
SOLAR SEAL SOUTH INC	ASHLAND, VA
SYRACUSE GLASS CO INC	SYRACUSE, NY
TEMPGLASS SOUTHERN	GRAND PRAIRIE, TX
THERMOSEAL GLASS CORP	GLOUCESTER CITY, NJ
TRACO (THREE RIVERS ALUMINUM CO)	WARRENDALE, PA
VIRACON INC	OWATONNA, MN
VIRACON WEST	VACAVILLE, CA

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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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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ROSTER

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 James Krahn, Marvin Windows

IGCC Officers

Mitchel D. Edwards, President
 Rich Giangjordano, VP/Treasurer
 Gus Barbarine, Secretary

IGCC CERTIFICATION COMMITTEE

John Colapietro, Chairman

<u>Licensee</u>	<u>Primary Member</u>	<u>First Alternate</u>	<u>Second Alternate</u>
AFG Glass, Inc.	Per Werthwein		
Air Master Corporation	Harold L. Kapp		
American Flat Glass Distributors	Douglas A. Long		
American Tempering, Inc.	G. J. Catalano		
Better Thermo Unit 2 + 2	Alfred Shapiro	Robert Wightman	
Binning's Building Products	Troy Rackard		
Capitol Products Corp.	Barry Hammacker		
Cardinal IG	Roger D. O'Shaughnessy	Robert G. Spindler	James Larsen
Floral Glass and Mirror	Charles Kaplanek		
General Glass Corporation	Paul Toltz		
Graham Architectural Products Corp.	Russell C. Trout		
Havlin-Witkin Corporation	Michael Foss	Curtis Bidstrup	
Hordis Bros., Inc.	Robert Williams		
Independent Insulating Glass Co.	Peter Pappas	Joseph M. Scalzo	Charles Gustafson
Interpane Coatings, Inc.	Kurt J. Ruefenacht	Tom Radloff	Bill Highfield
Interstate Glass Company, Inc.	James De Craene		
Marvin Windows	James Krahn	Douglas Steinbring	
PPG Industries, Inc.	John M. Schlueter	Len M. Malchesky	Richard T. McGuire
Rochester Insulated Glass Inc.	Stanley Wolk		
SIGCO, Inc.	Andy Soule		
Solar Seal Company	Frederic P. Shaw, Jr.		
Sunglas Products, Inc.	Mitchel Edwards	Omicka Burgess	
Tempglass, Inc.	John E. Colapietro	Irvin D. Fintel	
TRACO	Robert P. Randall		
Viracon, Inc.	Harold Landsman	Dan Wacek	Rick Voelker
Weather Shield Mfg., Inc.	James Sorge	Joseph Herman	Steve Wright

Members by virtue of being a governor

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Texas A & M Univ.	W. Lynn Beason
Elstner Pacific, Ltd.	Richard C. Elstner
Supplier	R. A. Giangjordano
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John G. Kent

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Claude F. Robb
Claude Robb & Associates
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Abescon, NJ 08201

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 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 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 to 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 has 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	'90
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

MEETINGS OF THE
CERTIFICATION COMMITTEE

The Certification Committee of the Insulating Glass Certification Council met on October 17 and 18, 1989.

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 FEBRUARY 1, 1990; 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
Mr. John G. Kent
Administrative Manager
ETL Testing Laboratories, Inc.
Industrial Park - 3933 U.S. Route 11
PO Box 2040
Cortland, NY 13045-0950

Telephone: 607-753-6711

* * * * *



c/o ETL Testing Laboratories, Inc.
 Industrial Park - 3933 U.S. Route 11
 Cortland, NY 13045-0950
 607-753-6711

**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 agreement 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 containing 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:

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 Mr. John G. Kent
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 PO Box 2040
 Cortland, NY 13045-0950
 Telephone: 607-753-6711

CREDIBILITY IN INDUSTRY CERTIFICATION THROUGH ACTIVE PUBLIC PARTICIPATION.

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 visits 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 has 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 having the IGCC certification label.

Administration

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 Licensee 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 validates 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 has been approved to be listed in the certified products directory.

Licensees label sealed insulating glass units in accordance with the labeling requirements established by the IGCC certification committee.

Approved products are listed in the certified products directory, which is published at least every six months. It is sent to door, sash and building 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 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 to 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 proves 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 or glass and advise the administrator of the same. Note: If no IGCC label exists, the product has not been certified by the manufacturer to IGCC and the administrator and IGCC have no further responsibilities or options.

Once the consumer has identified the label, number, 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 or 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 and December 1, the administration fee for participation will be one-half the total yearly fee and will include one inspection prior to the February 1 date. If the authorization date is on or before July 31, the total 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 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 IGCC 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 sealed 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 laboratories
- d) determines which of the specifications are to be designated effective for the purposes of product certification and the date or dates on which they become effective
- e) recommends to the 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.

SPACER

A.SP.1

Any change in air space dimension from that tested (one-quarter inch air space is required in test specimens).

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 interchangeable 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 spaces 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% by weight. (Adopted 8/29/84)

SEALANT

A.SE.1

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

A.SE.2

Changes within a generic type of sealant shall use G-5 for demonstrating equivalency and to maintain the same IGCC number.

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 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 require a different IGCC number.

N.SP.3

A change in corner design from mechanical to soldered, welded or brazed and vice versa will require a different IGCC number.

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) will 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.0 - (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.4 - Coated Glass

Inorganically coated glass may be used provided that the sealant or sealants contact the original glass substrate or contact silica or a glass-like material.

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 light divided arrangement in a diagonal pattern. The IGCC label cannot be used on a sealed insulating glass unit unless the tested prototype contained internal muntins.

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 - Coated Glass (Coated to Edge)

A coated insulating glass unit shall be considered equivalent to certified insulating glass units made with uncoated glass, providing the test level is the same for both sets of I.G. units. Tests shall be by IGCC approved laboratories. Only the lowest light transmission product for which equivalency is desired need be tested, provided the outermost metallic layer contacting the sealant is the same composition for all visible light transmission. 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 or whether or not the application is by a vacuum deposition or sputtering process. The coated glass pane of such units may be 1/4-inch (6 mm) thickness. Preparation of test specimens need not be witnessed. However, the test result must be reviewed and approved by the Administrator. (Adopted 8/14/85)

G.25 - 1/2-inch Air-Space Testing

The testing of 1/2-inch \pm 1/16-inch air-space units will be allowed under conditions where a physical barrier to the production of 1/4-inch air-space test units exists and only with the approval of the Administrator. (This Guideline shall remain in effect until the ASTM E06 committee entertains, or rejects, the concept of testing units with air spaces greater than 1/4-inch). (Adopted 8/28/86). (Modified 3/29/89).

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" 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 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 of 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 an 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 for 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 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:

- 1) immediately notify the administrator with all details of the change and -
- 2) 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 or
- 3) demonstrate the equivalency of the change to the satisfaction of the certification committee or a subcommittee. (Specimens not required.)

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.

Testing done in house by a licensee must be done under the surveillance of the administrator.

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 within sixty days a test be initiated. The model must pass the same level of test as the original model and shall be treated as a routine retest except appeals, reviews and reconsiderations will not be available.

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)

CLASS V - APPEALS, REVIEWS AND DE-CERTIFICATION**G.13 - Monetary**

The administrator shall remove authorization to use the IGCC permanent label from all of any licensees 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 unauthorized 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 & E774-88

LABORATORIES

Architectural Testing Inc.
Two Interchange Place
York, PA 17402-9899
Attention: Scott A. Warner

Telephone 717-846-7700

ETL Testing Laboratories, Inc.
660 Forbes Blvd.
South San Francisco, CA 94080
Attention: Lawrence E. Todd

Telephone 415-871-1414

Jim Spetz Testing Laboratory
29308 Armadale Avenue
Wickliffe, OH 44092
Attention: James L. Spetz, P. E.

Telephone 216-944-3665

Northwest Laboratories of Seattle, Inc.
1530 First Avenue South
Seattle, WA 98134
Attention: Richard J. Schefsky

Telephone 206-622-0680

Warnock Hersey
8431 Murphy Drive
Middleton, WI 53562
Attention: John McFee

Telephone 608-836-4400

It should be noted that ETL Testing Laboratories, Inc. Cortland, NY is the Administrator of the IGCC program and this program does not permit the Administrator to be a participating laboratory for annual retests and, therefore, is not listed above.

IN ADDITION TO THE ABOVE, THE FOLLOWING LABORATORY
IS APPROVED FOR TESTING "PROTOTYPE" UNITS:

ETL Testing Laboratories, Inc.
Industrial Park - 3933 U.S. Rt. 11
P.O. Box 2040
Cortland, NY 13045-0950
Attention: Lawrence R. Wethje, P. E.
Telephone 607-753-6711



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

Industrial Park - 3933 U.S. Rt. 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 as 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.

CREDIBILITY IN INDUSTRY CERTIFICATION THROUGH ACTIVE PUBLIC PARTICIPATION.



ETL TESTING LABORATORIES, INC.
Industrial Park • 3933 US Route 11
P.O. Box 2040
Cortland, NY 13045-0950

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.

8/89
IGCC

CREDIBILITY IN CERTIFICATION THROUGH ACTIVE PUBLIC PARTICIPATION.

EITHER MAKE COPY OR TEAR OUT HERE

SPECIFICATION USED FOR SEALED INSULATING GLASS

ASTM E774-88

Specification may be obtained by
writing to . . .

ASTM
1916 Race Street
Philadelphia, PA 19103

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.

INSULATING GLASS
IGCC[®]
CERTIFICATION COUNCIL

ETL TESTING LABORATORIES, INC.
Industrial Park • 3933 US Route 11
P.O. Box 2040
Cortland, NY 13045-0950

ADDRESS CORRECTION REQUESTED

POSTAGE MUST BE
AFFIXED HERE

U.S. POSTAGE
PAID
BULK RATE
PERMIT NO. 37
CORTLAND, N.Y.

IF NOT MAILED IN
CORTLAND, NEW YORK