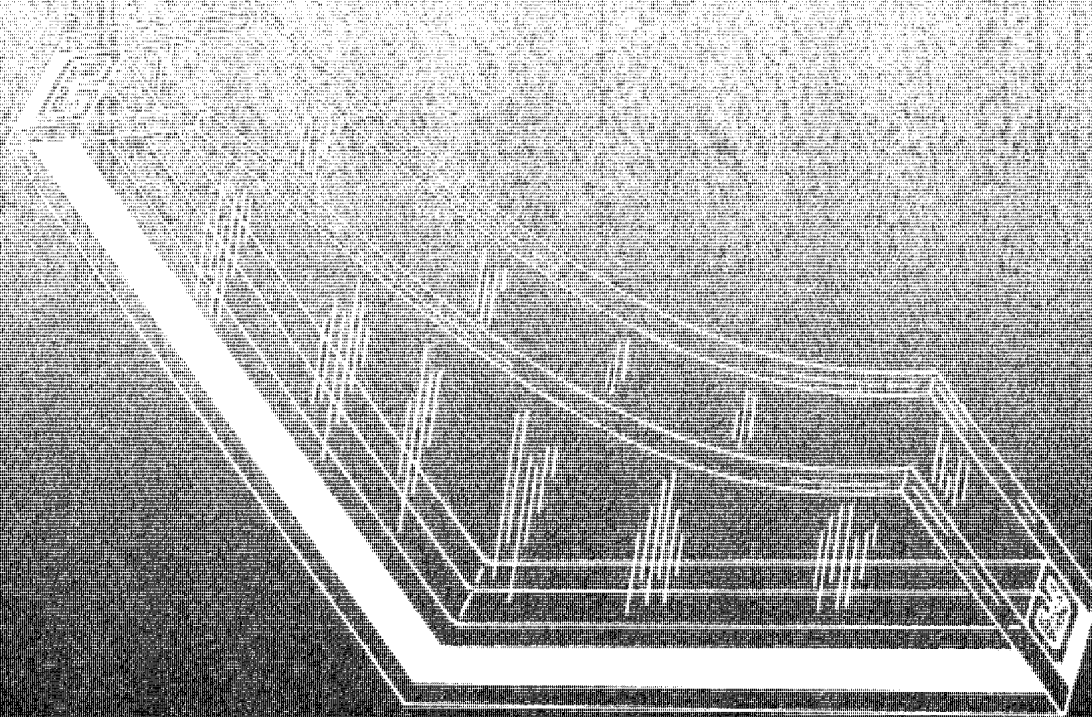


# CERTIFIED PRODUCTS DIRECTORY

SEALED INSULATING GLASS  
FEBRUARY 1, 1992



INSULATING GLASS

**IGCC**<sup>®</sup>

CERTIFICATION COUNCIL

CREDIBILITY IN INDUSTRY CERTIFICATION THROUGH ACTIVE PUBLIC PARTICIPATION



## TABLE OF CONTENTS

Program Concept . . . . .	page	4
Certified Products . . . . .	page	5
Certified Products Key . . . . .	page	19
Prototypes in Progress . . . . .	page	20
Board of Governors . . . . .	page	22
Communications . . . . .	page	22
Roster . . . . .	page	23
Participants . . . . .	page	25
IGCC ® Label Requirements . . . . .	page	27
Past IGCC ® Presidents' Recognition . . . . .	page	28
Meetings of the Certification Committee . . . . .	page	28
Advertising Guideline . . . . .	page	29
Procedural Guide . . . . .	page	30
Guidelines & Interpretations . . . . .	page	34
IGCC ® Approved Laboratories . . . . .	page	41
Participant's Agreement . . . . .	page	42

## 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 75381-5547 214-484-3691 ACI 141 IGCC® CBA '92	IGCC-703 IGCC-954	CBA CBA	NYK NYK	U U	AL AL	MS MS B/S HMB
ACI Glass Products 750 Walsh Ave Santa Clara CA 95050 408-727-5432 ACI NORTH IGCC® CBA '92	IGCC-952	CBA	NYK	U	AL	MS B/S
Acorn Bldg Components Inc 42 Cole St Quincy MI 49082 517-639-8731 ABC IGCC® CBA '92	IGCC-887 IGCC-946	CBA CBA	NYK NYK	U U	AL AL	MS MS/SG MPS PS
AFG Glass Inc 8484 Keele St Concord, Ontario L4K 2S3 CANADA 416-669-1930 AFG IGCC® CBA '92	IGCC-632 IGCC-679	CBA CBA	BC/ALJ/L BC/ALJ/L	U U/C	AL AL	MS MS B/PS B/S
Airmaster Architectural 345 Crooked Hill Rd Brentwood NY 11717 516-231-0800 AIRMASTER ARCHITECTURAL IGCC® CBA '92	IGCC-965 IGCC-966 IGCC-967	CB CBA CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS HMB HMB PU
Alcan Bldg Products 4411 Jacque St Richmond VA 23230 804-358-8368 ABP IGCC® CBA '92	IGCC-774	CBA	PLK	U	AL	MS HMB
All Season Glass Co Inc 231 Herbert Ave Closter NJ 07624 201-767-8300 ALL SEASONS IGCC® CBA '92	IGCC-507 IGCC-509 IGCC-987	CBA CBA CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS PU HMB B/PU
Alpen Inc 5400 Spine Rd Boulder CO 80301 303-530-1150 ALP IGCC® CBA '92	IGCC-880	CBA	BC/PLK	SCF	ST	MS/SG PU

## CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Alside Window Co 4725 Kelton Wy Sacramento CA 95838 916-641-0589 AWC IGCC® CBA '92	IGCC-835	CBA	NYK	U	AL	MS HMB
Alside Window Co S E 3800 Farmgate Rd Kinston NC 28501 919-527-5050 AWCSE IGCC® CBA '92	IGCC-837	CBA	NYK	U	AL	MS HMB/HMB
American Flat Glass Distributors 3350 Ball St Birmingham AL 35234 205-841-6785 AFGD 03 IGCC® CBA '92	IGCC-951	CBA	NYK	U	AL	MS MPS
American Flat Glass Distributors 575 Currant Rd Fall River MA 02720 508-675-9220 AFGD 7 IGCC® CBA '92	IGCC-848	CBA	NYK	U	AL	MS B/PS
American Flat Glass Distributors 4520 Willow Pkwy Cuyahoga Heights OH 44125 216-341-2110 AFGD 2 IGCC® CBA '92	IGCC-625 IGCC-797 IGCC-798	CBA CBA CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS B/S MPS B/MPS
American Flat Glass Distributors 9288 Sutton Pl Hamilton OH 45011 513-874-5772 AFGD 06 IGCC® CBA '92	IGCC-854	CBA	NYK	U	AL	MS PS
American Flat Glass Distributors 3200 Austell Rd Marietta GA 30060 404-434-2041 AFGD 1 IGCC® CBA '92	IGCC-141 IGCC-687 IGCC-808	CBA CBA CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS MPS B/MPS B/S
American Flat Glass Distributors 3740 Pampas Dr Jacksonville FL 32207 904-398-8471 AFGD 02 IGCC® CBA '92	IGCC-853	CBA	NYK	U	AL	MS MPS

CERTIFIED PRODUCTS

Licensee	IGCC Number		Corner Construction	Substrate	Spacer	Desiccant	Sealant
American Flat Glass Distributors 2341 Beaver Creek Dr Powell TN 37849 615-938-2020 AFGD 05 IGCC® CBA '92	IGCC-819	CBA	NYK	U	AL	MS	MPS
American Flat Glass Distributors 6200 Gorman Rd Richmond VA 23231 804-222-0120 AFGD 10 IGCC® CBA '92	IGCC-957	CBA	NYK	U	AL	MS	MPS
American Flat Glass Distributors 803 Prestige Pkwy Scotia NY 12302 518-374-3812 AFGD 09 IGCC® CBA '92	IGCC-849 IGCC-861	CBA CBA	NYK NYK	U U	AL AL	MS MS	MPS B/MPS
Antcliff Aluminum Products Inc 2417 E Judd Rd Burton MI 48529 313-742-5963 AAP IGCC® CBA '92	IGCC-471	CBA	NYK	U	AL	MS	PU
Assurance Glass Co PO Box 1452 Selma AL 36701 205-875-1900 AGCO IGCC® CBA '92 or AGCO 01 IGCC® CBA '92	IGCC-420	CBA	NYK	U	AL	MS/SG	B/PS
B & G Glass & Mirror Co Inc 11866 Hubbard Livonia MI 48150 313-522-0300 B&G IGCC® CBA '92	IGCC-466 IGCC-467	CBA CBA	NYK NYK	U U	AL AL	MS MS	B/MPS B/S
J E Berkowitz Inc Delsea Dr & Harvard Ave Route 47 Westville NJ 08093 609-456-7800 JEB IGCC® CBA '92	IGCC-352 IGCC-786	CBA CBA	NYK NYK	U U	AL AL	MS MS	B/MPS B/S
Better Thermo Unit 2+2 1530 Landmeier Rd PO Box 1446 Elk Grove Village IL 60007 708-593-2980 BTUM IGCC® CBA '92	IGCC-164	CBA	ALK/S	U	AL	MS/SG	B/PS

## CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Capitol Aluminum & Glass Corp 1276 W Main St Bellevue OH 44811 419-483-7830 CAG-HM IGCC® CBA '92	IGCC-884	CBA	NYK	SCF	ST	MS PU
Capitol Glass & Aluminum Corp 8017 Edith Blvd Albuquerque NM 87113 505-898-1460 CGAC-A IGCC® CBA '92	IGCC-956	CBA	NYK	U	AL	MS/SG B/MPS
Capitol Glass & Aluminum Corp 3515 S 300 W Salt Lake City UT 84115 801-268-2521 CGAC IGCC® CBA '92	IGCC-499	CBA	PLK	U	AL	MS/SG B/MPS
Cardinal IG Iowa 25 N PO Box 99 Greenfield IA 50849 515-743-2134 CARDINAL 2 IGCC® CBA '92 or CIG 2 IGCC® CBA '92	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 '92 or CIG 1 IGCC® CBA '92	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 '92 or CIG 3 IGCC® CBA '92	IGCC-324	CBA	BC/ALK/S/AP	U/C	AL	MS B/S
Cardinal IG 1620 Town Line Rd Tomah WI 54660 608-372-3300 CARDINAL 4 IGCC® CBA '92 or CIG 4 IGCC® CBA '92	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 '92	IGCC-638	CBA	NYK	U	AL	MS B/MPS



## CERTIFIED PRODUCTS

Licensee	IGCC Number		Corner Construction	Substrate	Spacer	Desiccant	Sealant
Croft Metals Inc Hwy 71 PO Drawer 90 Lumber Bridge NC 28357 919-843-3391 CMI 92-2 IGCC® CBA '92	IGCC-818	CBA	NYK	U	AL	MS	HMB
Croft Metals Inc Hwy 51 Magnolia MS 39652 601-783-3188 CMI 92-1 IGCC® CBA '92	IGCC-727	CBA	NYK	U	AL	MS	HMB
Custom Glass Products Inc 5906 Mesker St PO Box 590 Schofield WI 54476 715-359-2252 CGP IGCC® CBA '92	IGCC-661 IGCC-745	CBA CBA	BC/NYK BC/NYK	U U	AL AL/AP	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 '92	IGCC-782 IGCC-918	CBA CBA	BC/NYK BC/NYK	U U	AL AL	MS MS	PU B/PU
DeLuxe Insulated Glass Inc 4375 N Sellers St Indianapolis IN 46226 317-547-3564 IGOI IGCC® CBA '92	IGCC-757	CBA	NYK	U	AL	MS	PS
Dykstra Brothers Glass Co 4257 30th St Burnips MI 49314 616-896-8341 DYK IGCC® CBA '92	IGCC-729 IGCC-732	CBA CBA	NYK NYK	U U	AL AL	MS MS	B/PS B/S
Ecker Manufacturing Corp 4055 10th Ave New York NY 10034 212-304-1300 ECKER IGCC® CBA '92	IGCC-889	CBA	NYK	U	AL	MS	PU
Economy Glass Corp 365 Dorchester Ave (Rear) South Boston MA 02127 617-269-5000 ECONOLITE IGCC® CBA '92	IGCC-218	CBA	BC/NK/WL	U	AL	MS	B/PS

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Edge Seal Technologies Inc 1 Industrial Dr Bedford OH 44146 216-439-0980 EST IGCC® CBA '92	IGCC-734	CBA	NYK	U	AL/AP	MS HMB
Falconer-Lewistown Inc One Belle Ave Lewistown PA 17044 717-242-2571 FALCONSEAL IGCC® CBA '92	IGCC-566 IGCC-613	CBA CBA	NYK NYK	U U	AL AL	MS MS B/MPS B/S
Floral Glass Ind Inc 224 Sandbank Rd PO Box 882 Cheshire CT 06410 203-272-2211 INSULA 2 IGCC® CBA '92	IGCC-801	CBA	NYK	U	AL/AP	MS B/S
Floral Glass & Mirror Inc 895 Motor Pkwy Hauppauge NY 11787 516-234-2200 INSULA 1 IGCC® CBA '92	IGCC-881	CBA	BC/NK/W	U	AL	MS B/S
Four Seasons Solar Products Corp 5005 Veterans Memorial Hwy Holbrook NY 11741 516-563-4000 FSSP IGCC® CBA '92	IGCC-968	CBA	NYK	SCF	ST	MS PU
Galaxy Mfg Co of CNY Inc 109 Monarch Dr Liverpool NY 13088 315-451-5353 GALAXY IGCC® CBA '92	IGCC-691	CBA	NYK	U/C	AL	MS PU
Glasmont Corp 4024 Millersville Rd Indianapolis IN 46205 317-545-4301 GC IGCC® CBA '92	IGCC-653 IGCC-916 IGCC-917	CBA CBA CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS B/S PU B/PU
Glass Dist of America Inc 2310 Sweetwater Industrial Blvd Lithia Springs GA 30057-2882 404-732-2000 GDA IGCC® CBA '92	IGCC-834	CBA	NYK	U	AL	MS MPS

FEBRUARY 1, 1992

IGCC 11

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Glasstemp Inc 1001 Foster Ave Bensenville IL 60106 708-595-3750 GLASSTEMP IGCC® CBA '92	IGCC-538 IGCC-753	CBA CBA	NYK NYK	U U	AL AL	MS/SG MS/SG B/MPS B/S
Glenny Glass Co 11310 Williamson Rd Cincinnati OH 45262 513-489-2233 GLENNY IGCC® CBA '92	IGCC-964	CBA	NYK	U	AL/AP	MS B/PS
Graham Architectural Products Corp 1551 Mt Rose Ave York PA 17405 717-849-8100 GRAHAM IGCC® CBA '92	IGCC-353	CBA	NYK	U	AL	MS/SG HMB
Harvey Inds Inc 725 Huse Rd Manchester NH 03103 603-622-4232 HARVEY IGCC® CBA '92	IGCC-937	CBA	NYK	U	AL	MS HMB
Hoffer's Inc 5103 Janice Ave Schofield WI 54476 715-359-2432 H. I. IGCC® CBA '92	IGCC-897 IGCC-898 IGCC-899	CBA CBA CBA	BC/ALK/S NYK NYK	U U U	AL/AP AL AL/AP	MS MS MS B/PU PU B/PU
HGP Industries Inc 5334 Barthel Dr PO Box 130 Albertville MN 55301 612-497-3212 HGP 22 IGCC® CBA '92	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 Industries Inc 1500 Glen Ave Moorestown NJ 08057 609-234-9222 HGP 12 IGCC® CBA '92	IGCC-494	CBA	NYK	U	AL	MS B/S
HGP Industries Inc 1900 Midland St PO Box 11339 Rock Hill SC 29731 803-366-5167 HGP 44 IGCC® CBA '92	IGCC-497 IGCC-721	CBA CBA	NYK NYK	U U	AL AL	MS MS B/S B/PU

## CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant	
HGP Industries Inc 1548 Stone Ridge Dr Stone Mountain GA 30083 404-939-6900	IGCC-913 IGCC-914	CBA CBA	NYK NYK	U U	AL AL	MS/SG MS	B/PU B/S
HGP 42 IGCC® CBA '92							
HGP Industries Inc PO Box 368 Warrenton MO 63383 314-456-3452	IGCC-829	CBA	ALK/S	U	AL	MS	B/S
HGP 21 IGCC® CBA '92							
Hurd Millwork Co S Prospect St PO Box 437 Merrill WI 54452 715-536-5581	IGCC-372	CBA	NYK	U	AL	MS	MPS
HURD 02 IGCC® CBA '92							
Insulating Glass of Georgia Inc 520 Wharton Circle S W PO Box 43444 Atlanta GA 30336 404-691-3300	IGCC-1002 IGCC-1003	CBA CBA	NYK NYK	U U	AL AL	MS MS	B/MPS B/S
Inde Pane ATL IGCC® CBA '92							
Insulpane of Connecticut Inc 30 Edmond St Hamden CT 06517 203-865-8212	IGCC-770	CBA	NYK	U	AL	MS	B/PU
INSULPANE OF CONN IGCC® CBA '92							
Interpane Coatings Inc 201 Interpane La PO Box 26 Deerfield WI 53531 608-764-5461	IGCC-842 IGCC-981	CBA CBA	BC/NYK/AP BC/PLK	U/C U	AL AL	MS MS	B/S B/PU
INTERPANE COATINGS I PLUS NEUTRAL IGCC® CBA '92							
Interstate Glass Co Inc 3801 S Main St South Bend IN 46614 219-291-5150	IGCC-915	CBA	NYK	U	AL	MS/SG	MPS
WEATHERBAN IGCC® CBA '92 or INTERSTATE IGCC® CBA '92							
Jersey Tempered Glass Inc 2035 Briggs Rd PO Box 205 Mt Laurel NJ 08054 609-273-8700	IGCC-689 IGCC-750	CBA CBA	NYK NYK	U U	AL AL	MS MS	PU B/PU
JTG IGCC® CBA '92							

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 '92	IGCC-856	CBA	NYK	U	AL	MS	B/S
Laminated Glass Corp 525 Plymouth Rd Suite 310 Plymouth Meeting PA 19462 215-834-6420 LGC IGCC® CBA '92	IGCC-857	CBA	NYK	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 '92	IGCC-572	CBA	BC/NK	U	-	-	BSS
Mannix Industries Inc 345 Crooked Hill Rd Brentwood NY 11717 516-231-0800 MX IGCC® CBA '92	IGCC-673 IGCC-674 IGCC-822	CB CBA CBA	NYK NYK NYK	U U U	AL AL AL	MS MS MS	HMB HMB PU
Marvin Windows PO Box 100 Warroad MN 56763 218-386-1430 MARVIN 01 IGCC® CBA '92	IGCC-303 IGCC-496	CBA CBA	NYK NYK	U U	AL AL/AP	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 '92	IGCC-771 IGCC-772 IGCC-773	CBA CBA CBA	NYK ALK/S ALK/S	U U U	AL AL AL	MS/SG MS/SG MS/SG	MPS B/MPS B/S
Mid-American Glass 147 N Sturdevant St PO Box 3428 Davenport IA 52802 319-326-6294 MID AMERICAN IGCC® CB '92	IGCC-893	CB	BC/ALK/S	U	AL	MS/SG	B/HMB

## CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant	
Norco of Michigan PO Box 247 Marenisco MI 49947 906-787-2235 NORCO-M IGCC® CBA '92	IGCC-895	CBA	NYK	U	AL	MS/SG MPS	
Norco Windows Inc PO Box 140 Hawkins WI 54530 715-585-6311 NORCO IGCC® CBA '92	IGCC-301	CBA	NYK	U	AL	MS/SG MPS	
Northwest Glass Inc 127 Regal St PO Box 21258 Billings MT 59104 406-252-7196 NWG IGCC® CBA '92	IGCC-865	CBA	NYK	U	AL	MS/SG PU	
Northwestern Inds Inc 2501 W Commodore Way Seattle WA 98199 206-285-3140 NWI IGCC® CBA '92	IGCC-940 IGCC-941 IGCC-942 IGCC-943	CBA CBA CBA CBA	BC/NYK BC/NYK BC/ALK/S BC/ALK/S	U/C U/C U/C U/C	AL AL AL AL	MS MS MS MS	B/PS B/S B/PS B/S
Patio Enclosures Inc 720 E Highland Rd Macedonia OH 44056 216-468-0700 PEI IGCC® CBA '92	IGCC-800	CBA	NYK	U	AL/AP	MS B/PU	
Penn Pane Insulating Inc 705 Clinton Ave PO Box 39 Reading PA 19603 215-375-2161 PPI IGCC® CBA '92	IGCC-885	CBA	NYK	U	AL	MS B/MPS	
Perilstein Distributing Corp 100 Business Ctr Dr Cheswick PA 15024 412-274-9050 PERMA-PANE IGCC® CBA '92	IGCC-765 IGCC-927	CBA CBA	NYK NYK	U U	AL AL	MS/SG MS/SG	B/MPS B/S
PPG Industries Inc 501 Second Ave Ford City PA 16226 412-763-1211 PPG-5 IGCC® CBA '92	IGCC-578	CBA	BC/NK/W	U/C	AL/AP	MS B/S	

CERTIFIED PRODUCTS

Licensee	IGCC Number		Corner Construction	Substrate	Spacer	Desiccant	Sealant
REPCO 510 Station Ave Bensalem PA 19020 215-639-5990 REPCO IGCC® CBA '92	IGCC-833	CBA	NYK	U	AL	MS	MPS
Rochester Insulated Glass Inc Merrick St Ext Manchester NY 14504 716-289-3611 RIG, INC. IGCC® CBA '92	IGCC-451	CBA	BC/NYK	U	AL	MS	B/S
Royal Prime Inc 1027 Newark Ave Elizabeth NJ 07201 908-354-7600 RP IGCC® CBA '92	IGCC-958	CBA	NYK	U	AL	MS	HMB
SIGCO Inc 299 Presumpscott St Portland ME 04103 207-775-2676 SIGCO IGCC® CBA '92	IGCC-654	CBA	NYK	U	AL	MS	PS
S N E Enterprises 1000 S View Dr PO Box 700 Mosinee WI 54455-0700 715-693-7000 SNE IGCC® CBA '92	IGCC-553	CBA	BC/NYK/AP	U	AL	MS	B/PU
Solar Seal Co 55 Bristol Dr South Easton MA 02375 508-238-0112 SOLAR SEAL IGCC® CBA '92	IGCC-117 IGCC-748	CBA CBA	DCK NYK	U U	AL AL	MS MS	B/PS B/PS
Solar Seal South Inc 100 S Leadbetter Rd Ashland VA 23005 804-798-6051 SSS IGCC® CBA '92	IGCC-784 IGCC-785	CBA CBA	NYK NYK	U U	AL AL	MS MS	B/MPS B/S
Spectrum Glass Products PO Box 408 Clinton NC 28328 919-592-7101 SPECTRUM GLASS PRODUCTS IGCC® CBA '92	IGCC-730 IGCC-876	CBA CBA	BC/NK/SL BC/NK/WL	U/C U/C	AC AL	- MS	BSS/S B/S

## CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Superseal Mfg Inc 125 Helen St S Plainfield NJ 07080 908-561-5910 SS IGCC® CB '92	IGCC-920	CB	NYK	U	AL	MS HMB
Syracuse Glass Co Inc 4019 New Court Ave PO Box 381 Syracuse NY 13206 315-437-9971 SGC IGCC® CBA '92	IGCC-823 IGCC-828	CBA	NYK	U/C	AL	MS/SG MS/SG B/MPS B/S
Tempglass Eastern Inc 600 Heraeus Blvd Buford GA 30518 404-945-6200 TGE IGCC® CBA '92	IGCC-384	CBA	BC/NYK	U/C	AL	MS B/S
Tempglass Inc 291 "M" St Willis Day Industrial Park Perrysburg OH 43551 419-666-2000 TEMPGLASS IGCC® CBA '92	IGCC-722	CBA	BC/NYK	U	AL	MS B/S
Tempglass Southern Inc 1101 Fountain Pkwy Grand Prairie TX 75050 214-647-4028 TEMPGLASS S IGCC® CBA '92	IGCC-862	CBA	NYK	U	AL	MS B/S
The Glass Factory Inc 5012 Expressway Dr S Ronkonkoma LI NY 11779 516-588-4844 SUPER-SEAL II IGCC® CBA '92	IGCC-790	CBA	NYK	U	AL	MS B/S
ThermaGlas Corp 1930 S 23rd St PO Box 1426 Saginaw MI 48605 517-754-7461 TG 01 IGCC® CBA '92	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 INC IGCC® CBA '92	IGCC-646 IGCC-873	CBA	PLK	U	AL	MS MS HMB B/S



CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Thermoseal Glass Corp 400 Water St PO Box 360 Gloucester City NJ 08030 609-456-3109 TSG IGCC® CBA '92	IGCC-890	CBA	DCK	U	AL	MS MPS
TRACO (Three Rivers Aluminum Co) Cranberry Ind Pk PO Box 805 Warrendale PA 15095 412-776-7000 TRACO IGCC® CBA '92	IGCC-439	CBA	BC/NK/W	U	AL	MS B/S
Vega Glass Center of Virginia Inc PO Box 59 Newington VA 22122 703-550-7982 INSULVUE IGCC® CBA '92	IGCC-868	CBA	PLK	U	AL	MS B/PU
Viracon Inc 800 Park Dr PO Box 248 Owatonna MN 55060 507-451-9555 VIRACON 01 IGCC® CBA '92	IGCC-169	CBA	BC/ALK	U/C	AL/AP	MS B/S
Weatherproof Inc 385 Watts Rd Jackson MI 49203 517-764-1330 WEATHERPROOF IGCC® CBA '92	IGCC-580 IGCC-923	CBA CBA	NYK NYK	U U	AL AL/AP	MS MS PU B/PU
Weather Shield Mfg Inc 2990 S 8th W Route 1 Box 103 Logan UT 84321 801-753-6590 WS-U 12 IGCC® CBA '92	IGCC-277 IGCC-557	CBA CBA	NYK NYK	U U	AL AL	MS MS PU B/PU
Weather Shield Mfg Inc 675 E Allman St PO Box 309 Medford WI 54451 715-748-2100 WS 02/03 IGCC® CBA '92	IGCC-408	CBA	NYK/MB	U/C	AL	MS B/PU
Western Glass / General Glass Corp 11205 E 37th Ave PO Box 390711 Denver CO 80239 303-371-5511 DUAL-PANE 71 IGCC® CBA '92	IGCC-924 IGCC-932 IGCC-933	CBA CBA CBA	NYK NYK BC/NYK	U U U	AL AL AL	MS/SG MS/SG MS/SG B/MPS B/S P/HMB

IGCC 18

FEBRUARY 1, 1992

CERTIFIED PRODUCTS

Licensee	IGCC Number	Corner Construction	Substrate	Spacer	Desiccant	Sealant
Winchester Industries Route 286 E Box 160 Saltsburg PA 15681 412-639-3551 WI IGCC® CBA '92	IGCC-928	CBA	BC/NK	U	-	BSS

## 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**

ACI GLASS	SEATTLE, WA
AFG GLASS INC	ONTARIO CANADA
AMERICAN FLAT GLASS DIST	FALL RIVER, MA
AMERICAN FLAT GLASS DIST	HAMILTON, OH
AMERICAN FLAT GLASS DIST	DENVER, CO
AMERICAN FLAT GLASS DIST	ALVARADO, TX
ARTISTIC GLASS PRODUCTS	TRUMBAUERSVILLE, PA
CAPITOL GLASS & ALUMINUM	SALT LAKE CITY, UT
CARDINAL IG	MINNEAPOLIS, MN
CAREFREE ALUMINUM PRODUCTS	CHARLOTTE, MI
CLASSIC GLASS OF BATTLE CREEK INC	BATTLE CREEK, MI
CUSTOM GLASS PRODUCTS INC	SCHOFIELD, WI
DELUXE INSULATED GLASS INC	INDIANAPOLIS, IN
ELLSTROM MFG	SEATTLE, WA
EMPIRE GLASS INC	BRONX, NY
FLOWER CITY GLASS CO	ROCHESTER, NY

**"PROTOTYPE IN PROGRESS"**

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

**MANUFACTURERS**

GUARDIAN INDS CORP	CARLETON, MI
HGP INDUSTRIES INC	PHOENIX, AZ
HGP OF LOUISVILLE	LOUISVILLE, KY
HOFFER'S INC	SCHOFIELD, WI
HURD MILLWORK CO	MERRILL, WI
IDEAL ALUMINUM CO	BAYONNE, NJ
INTERPANE COATINGS INC	DEERFIELD, WI
MANNIX INDS INC	BRENTWOOD, NY
NASHVILLE TEMPERED GLASS CORP	NASHVILLE, TN
QUALITY ALUMINUM PRODUCTS	LOUISVILLE, KY
SLOCOMB INDS INC	WILMINGTON, DE
SNE ENTERPRISES	STEVENS POINT, WI
SPECTRUM GLASS PRODUCTS	CLINTON, NC
THOMPSON IG CORP	FENTON, MI
VEGA GLASS CTR OF VIRGINIA	NEWINGTON, VA

**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.

## IGCC BOARD OF GOVERNORS

## REPRESENTING PUBLIC INTEREST

Richard C. Elstner, S.E.  
Elstner Pacific Ltd.  
224 Kulamau Pl  
Honolulu HI 96816  
Telephone: 808-732-3935

Dr. Joseph E. Minor, P.E.  
Department of Civil Engineering  
University of Missouri - Rolla  
Rolla MO 65401-0249  
Telephone: 314-341-4461

Donald J. Vild  
PO Box 7514  
Oregon OH 43616  
Telephone: 419-693-8929

W. Lynn Beason  
Civil Engineering Department  
Texas A & M University  
College Station TX 77843-3136  
Telephone: 409-845-7435

## REPRESENTING INDUSTRY

Elizabeth Bellaver  
Nichols-Homesfield Inc  
1771 W Diehl Rd Ste 200  
PO Box 3038  
Naperville, IL 60566-7038  
Telephone: 708-355-5400

Mitchel D. Edwards  
SPI Glass Corp  
844 West Lowry Rd  
PO Box 963  
Claremore, OK 74018  
Telephone: 918-342-3344

John Colapietro  
Tempglass Inc  
291 "M" St  
Willis Day Industrial Pk  
Perrysburg, OH 43551  
Telephone: 419-666-2000

Robert Spindler  
Cardinal IG  
12301 Whitewater Dr  
Minnetonka, MN 55343  
Telephone: 612-935-1722

James Krahn  
Marvin Windows  
Hwy 11 W  
Warroad MN 56763  
Telephone: 218-386-1430

## COMMUNICATIONS

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

IGCC Board of Governors  
Mitchell Edwards, President  
SPI Glass Corp.  
844 W Lowry Rd  
PO Box 963  
Claremore, OK 74018  
Telephone: 918-342-3344

Insulating Glass Certification Council  
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

IGCC Certification Committee  
James Krahn, Chairman  
Marvin Windows  
Highway 11 West  
Warroad, MN 56763  
Telephone: 218-386-1430

Insulating Glass Certification Council  
Cynthia L. Dayton  
Staff Assistant  
ETL Testing Laboratories, Inc.  
Industrial Park - 3933 U.S. Route 11  
PO Box 2040  
Cortland, NY 13045-0950  
Telephone: 607-753-6711

## ROSTER

BOARD OF GOVERNORSRepresenting Public Interest

Richard C. Elstner, Elstner Pacific Ltd  
 Joseph E. Minor, Univ. of MO - Rolla  
 Donald J. Vild, Consultant  
 W. Lynn Beason, Texas A & M Univ.

Representing Industry

Elizabeth Bellaver, Nichols  
 Mitchel D. Edwards, SPI Glass  
 John Colapietro, Tempglass Inc  
 Robert Spindler, Cardinal IG  
 James Krahn, Marvin Windows

IGCC Officers

Mitchel D. Edwards, President  
 John Colapietro, VP/Treasurer  
 Elizabeth Bellaver, Secretary

IGCC CERTIFICATION COMMITTEE

James Krahn, Chairman

<u>Licensee</u>	<u>Primary Member</u>	<u>First Alternate</u>	<u>Second Alternate</u>
ACI Glass Products			
Acorn Bldg Components, Inc.			
AFG Glass, Inc.	J. Richard Orton		
Alcan Bldg Products			
All Season Glass Co., Inc.			
Alpen, Inc.			
Alside Window Co.			
American Flat Glass Distributors	J. Richard Orton		
Antcliff Aluminum Products			
Assurance Glass Co			
B & G Glass & Mirror Co., Inc.			
J E Berkowitz, Inc.			
Better Thermo Unit 2 + 2	Alfred Shapiro	Robert Wightman	
Capitol Aluminum & Glass Corp.			
Capitol Glass & Aluminum Corp.			
Cardinal IG	Roger D. O'Shaughnessy	Robert G. Spindler	James Larsen
James A Cassidy Co., Inc.			
Croft Metals, Inc.			
Custom Glass Products, Inc.			
Custom Glass Products of Carolina, Inc.			
DeLuxe Insulated Glass, Inc.			
Dykstra Brothers Glass Co.			
Ecker Manufacturing Corp.			
Economy Glass Corp.			
Edge Seal Technologies, Inc.			
Falconer-Lewistown, Inc.			
Floral Glass Industries, Inc.			
Floral Glass and Mirror, Inc.	Charles Kaplanek		
Four Seasons Solar Products Corp.			
Galaxy Mfg Co. of CNY, Inc.			
Glasmont Corp.			
Glass Distributors of America, Inc.			
Glasstemp, Inc.			
Glenny Glass Co.			
Graham Architectural Products Corp.	Russell C. Trout		
Harvey Industries, Inc.			
Hoffer's, Inc.			
HGP Industries, Inc.	Robert Williams		
Hurd Millwork Co.			
Insulating Glass of Georgia, Inc.	Joseph M. Scalzo		
Insulpane of Connecticut, Inc.			
Interpane Coatings, Inc.	C. Greg Carney	Tom W. Radloff	

Interstate Glass Co, Inc.			
Jersey Tempered Glass, Inc.			
Labglas, Inc.			
Laminated Glass Corp.			
LBL, Inc.			
Mannix Industries, Inc.			
Marvin Windows	James Krahn	Douglas Steinbring	
MGL Glass Div/Milco			
Mid-American Glass			
Norco of Michigan			
Norco Windows, Inc.			
Northwest Glass, Inc.			
Northwestern Inds, Inc.			
Patio Enclosures, Inc.			
Penn Pane Insulating, Inc.			
Perilstein Distributing Corp.			
PPG Industries, Inc.	John M. Schlueter	Len M. Malchesky	Richard T. McGuire
REPCO			
Rochester Insulated Glass, Inc.	Stanley Wolk		
Royal Prime, Inc.			
SIGCO, Inc.	Andy Soule		
S N E Corp.			
Solar Seal Co.	Frederic P. Shaw, Jr.		
Solar Seal South, Inc.			
Spectrum Glass Products			
Superseal Mfg Inc			
Syracuse Glass Co., Inc.			
Tempglass Eastern Inc	John E. Colapietro		
Tempglass, Inc.	John E. Colapietro	Irvin D. Fintel	
Tempglass Southern Inc.	John E. Colapietro		
The Glass Factory, Inc.			
ThermaGlas Corp.			
Thermolite, Inc.			
Thermoseal Glass Corp.			
TRACO (Three Rivers Aluminum Co.)	Robert P. Randall		
Vega Glass Center of Virginia, Inc.			
Viracon, Inc.	Lyle Krohnberg	Dan Wacek	Rick Voelker
Weatherproof, Inc.			
Weather Shield Mfg., Inc.	James Sorge	Joseph Herman	Steve Wright
Western Glass/ General Glass Corp	Paul Toltz		
Winchester Industries			

Members by virtue of being a governor

Supplier	Elizabeth Bellaver
Texas A & M Univ.	W. Lynn Beason
Elstner Pacific, Ltd.	Richard C. Elstner
University of Missouri - Rolla	Joseph E. Minor
Public Interest	Donald J. Vild

Legal Counsel:

Leland J. Badger  
 Jenner & Block  
 601 Thirteenth St N. W.  
 Twelfth Floor  
 Washington, DC 20005  
 Telephone: 202-639-6000

Administrative Manager:

John G. Kent

Administrative Staff:

Cynthia L. Dayton



## PARTICIPANTS (SUPPLIERS)

Allmetal, Inc.  
636 Thomas Drive  
Bensenville, IL 60106  
Dennis J. Raske

Alumet Mfg., Inc.  
3803 136th Street  
Marysville, WA 98270  
Larry Peterson

Bostik Construction Products  
1740 County Line Road  
PO Box 8  
Huntingdon Valley, PA 19006  
Joseph S. Amstock

Ceca Division of Atochem, Inc.  
PO Box 1250  
Pryor, OK 74362-1250  
Walter J. Blaha

Dow Corning Corporation  
Midland, MI 48686-0994  
Mark Maxwell  
Steve Block

H. B. Fuller Company  
1200 Wolters Blvd.  
Vandnais Heights, MN 55110  
Gregory J. Anderson

General Electric Silicone Products Division  
260 Hudson River Rd  
Waterford, NY 12188  
Paul Brahler

W. R. Grace and Company  
P.O. Box 2117  
Baltimore, MD 21203  
Bill Gallion

Hygrade Metal Moulding Manufacturing Corporation  
540 Smith Street  
Farmingdale, NY 11735  
Richard Cole  
Kevin O'Connell

Mobay Corporation  
Mobay Rd Bldg 14  
Pittsburgh, PA 15205  
Jamie Staniscia

Morton International, Inc.  
100 N. Riverside Plaza  
Chicago, IL 60606-1598  
J. R. Marty North

Morton International, Inc.  
Woodstock Research Center  
1275 Lake Avenue  
Woodstock, IL 60098-7499  
Bruce Streeter

Nichols-Homeshield, Inc.  
1771 W Diehl Rd Ste 200  
PO Box 3038  
Naperville, IL 60566-7038  
Elizabeth C. Bellaver

Products Research and Chemical Corporation  
PO Box 4226  
Woodland Hills, CA 91364-4226  
Rich A. Giangliordano

Rhone-Poulenc, Inc.  
Specialty Plastics Div.  
PO Box 125  
Monmouth Junction, NJ 08852-0125  
Donald L. Swanson

Tremco, Inc.  
10701 Shaker Boulevard  
Cleveland, OH 44104  
James A. Box  
William J. Golla

Union Carbide Corporation  
Molecular Sieve Department  
10 South Riverside Plaza  
Chicago, IL 60606  
Joseph Cappello

Jim Walter Window Components  
1500 North Dale Marby  
Tampa, FL 33607  
David C. Engbretson

Zeochem  
P.O. Box 35940  
Louisville, KY 40232  
Arthur Hausberger  
Gus Barbarine

## PARTICIPANTS (NON SUPPLIERS)

Richard C. Elstner  
Elstner Pacific, Ltd.  
224 Kulamanu Place  
Honolulu, HI 96816

A. Risher Hall  
702 Willow Valley Lakes Drive  
Willow Street, PA 17584

Ronald D. Lowden, Jr.  
314 Chestnut Avenue  
Narberth, PA 19072

Dr. Joseph E. Minor, P.E.  
Department of Civil Engineering  
University of Missouri - Rolla  
Rolla, MO 65401-0249

Richard E. Wright  
Richard E. Wright Associates  
151 Fenwick Court  
Delran, NJ 08075

Claude F. Robb  
Claude Robb & Associates  
378 Cos Cob Dr.  
Absecon, NJ 08201

Robert A. Nance  
700 Locust Ave  
Boulder, CO 80304-0528

Robert Schwartz  
Skidmore, Owings & Merrill  
103 Hooverton Place  
East Windsor, NJ 08520

James L. Spetz  
Jim Spetz Testing Laboratory  
29308 Armadale Avenue  
Wickliffe, OH 44092

Donald J. Vild  
P.O. Box 7514  
Oregon, OH 43616

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

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 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	'92
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 April 16 and 17, 1991.

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, 1992; 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  
Industrial Park - 3933 U.S. Route 11  
PO Box 2040  
Cortland, NY 13045-0950

Telephone: 607-753-6711  
Fax: 607-756-9891

\* \* \* \* \*



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:

Insulating Glass Certification Council  
 Mr. John G. Kent  
 Administrative Manager  
 Industrial Park - 3933 U.S. Rt. 11  
 PO Box 2040  
 Cortland, NY 13045-0950  
 Telephone: 607-753-6711  
 Fax: 607-756-9891

**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 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 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

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 ending 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 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 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) 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 (i.e. pyrolytic-coated low E) may be used provided that the sealant or sealants contact the original glass substrate or contact silica or a glass-like material. (Modified 4/16/91)

**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 - 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) 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, 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.  
360 E. Grand Ave #38  
South San Francisco, CA 94080  
Attention: Lawrence E. Todd

Telephone 415-871-1414

SHIP TO: Jim Spetz Testing Laboratory  
29633 Lakeland Blvd  
Wickliffe, OH 44092  
Attention: James L. Spetz, P. E.

MAIL TO: 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: Rick Curkeet

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: Kenneston R. Bleck  
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 CERTIFICATION THROUGH ACTIVE PUBLIC PARTICIPATION.**



INDUSTRIAL PARK • 3933 US ROUTE 11  
P.O. BOX 2040  
CORTLAND, N.Y. 13045-0950  
PHONE 607-753-6711  
FAX 607-756-9891

### 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



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**<sup>®</sup>  
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