

FEBRUARY 1, 1980

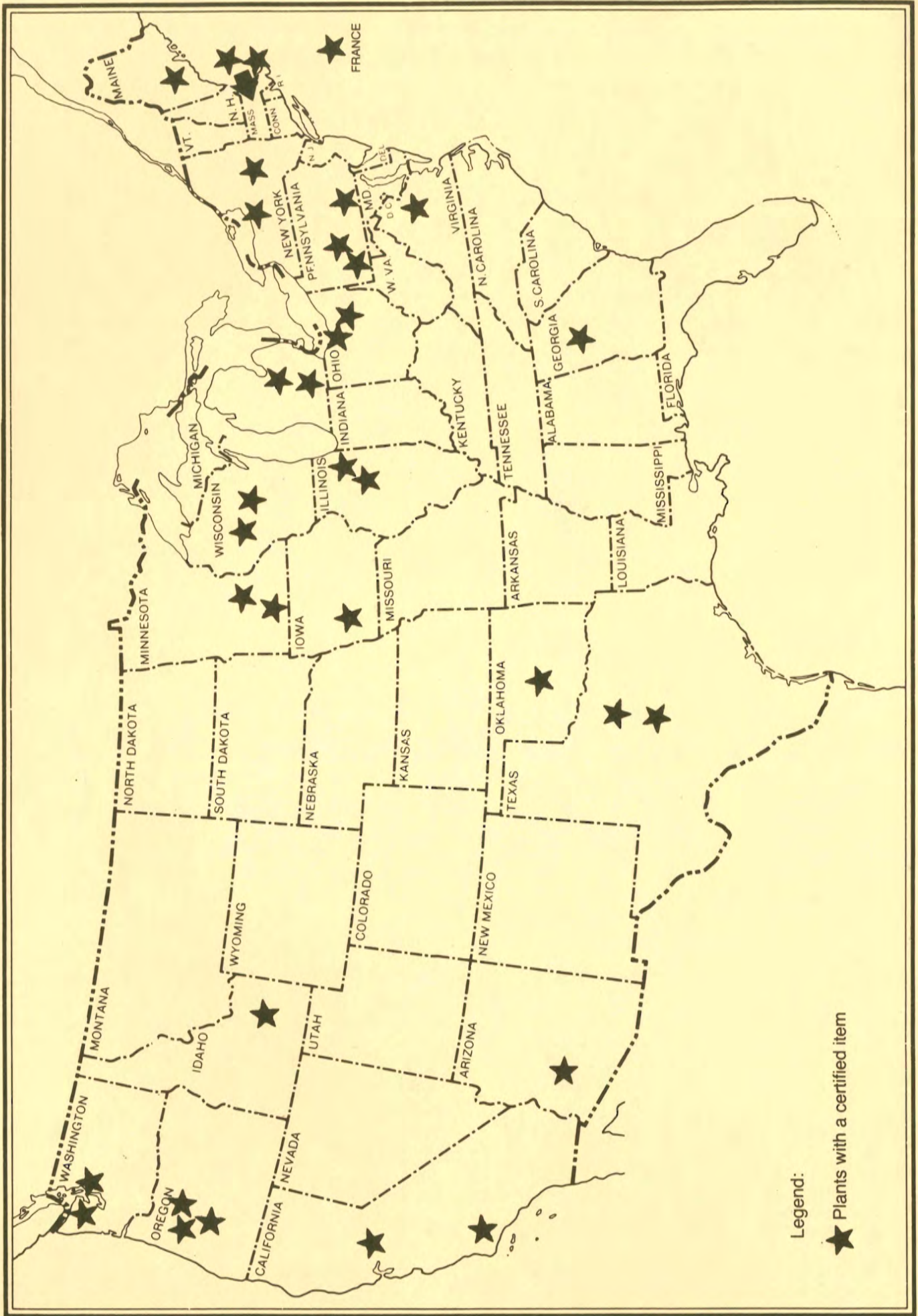


insulating glass certification council

Credibility in Industry Certification through Active Public Participation.

certified products directory  
sealed insulating glass





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 non-profit 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 E-6 P3 Proposed Specifications for Sealed Insulating Glass". These specifications basically classify sealed units into three categories; C, B, or A, depending upon durability in the accelerated testing. IGCC recognizes that ASTM E-6 P3 and related test methods E-6 P1 and E-6 P2, are "proposed recommended practices", not "full" ASTM standards at this time. 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 per cent 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 organization is operated in compliance with the American National Standard Practice for Certification Procedures Z34.1-1947 (R1959).

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 E-6 P3. 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

|   |  |                               |
|---|--|-------------------------------|
| <p>A.B.S. Enterprises, Inc.<br/>148 N.E. 48<br/>Oklahoma City, Oklahoma 73118<br/>405-528-7031</p>                      | <p>single seal<br/>Thiokol LP® polysulfide</p>               | <p>IGCC-166<br/>Class CBA</p> |
| <p>Armour World Wide Glass Company<br/>9401 Ann Street<br/>Santa Fe Springs, California 90670<br/>213-723-0851</p>      | <p>dual seal<br/>polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-144<br/>Class CBA</p> |
| <p>Belknap Glass Company<br/>8462 South 190<br/>Kent, Washington 98031<br/>206-271-3450</p>                             | <p>dual seal<br/>polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-133<br/>Class CBA</p> |
| <p>Bennett's<br/>564 Hemmert Drive<br/>Idaho Falls, Idaho 83401<br/>208-524-5310</p>                                    | <p>single seal<br/>hot melt butyl</p>                        | <p>IGCC-157<br/>Class CBA</p> |
| <p>Better Thermo Unit 2 + 2<br/>1530 Landmeier Road<br/>Elk Grove Village, Illinois 60007<br/>312-593-2980</p>          | <p>dual seal<br/>polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-164<br/>Class CBA</p> |
| <p>Burton Enterprises, Inc.<br/>MacArthur Avenue<br/>Cobleskill, New York 12043<br/>518-234-3595</p>                    | <p>single seal<br/>Thiokol LP® polysulfide</p>               | <p>IGCC-140<br/>Class C</p>   |
| <p>Cardinal Insulated Glass Company<br/>Iowa 25 North<br/>Greenfield, Iowa 50849<br/>515-743-2134</p>                   | <p>dual seal<br/>polyisobutylene/silicone</p>                | <p>IGCC-155<br/>Class CBA</p> |
| <p>Cardinal Insulated Glass Company<br/>7115 West Lake Street<br/>Minneapolis, Minnesota 55426<br/>612-929-0317</p>     | <p>dual seal<br/>polyisobutylene/silicone</p>                | <p>IGCC-154<br/>Class CBA</p> |
| <p>Chrome-A-Seal Insulating Glass<br/>700 Rail Road Street<br/>Rome, New York 13440<br/>315-336-6100</p>                | <p>dual seal<br/>polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-152<br/>Class CB</p>  |
| <p>Double Seal Glass Company<br/>1976 Bagwell Avenue<br/>Flint, Michigan 48501<br/>313-744-2220</p>                     | <p>single seal<br/>Thiokol LP® polysulfide</p>               | <p>IGCC-161<br/>Class CBA</p> |
| <p>Ellstrom Manufacturing, Inc.<br/>1540 N.W. Ballard Way<br/>Seattle, Washington 98017<br/>206-789-3000</p>            | <p>single seal<br/>Thiokol LP® polysulfide</p>               | <p>IGCC-165<br/>Class CBA</p> |
| <p>Graham Architectural Products Corporation<br/>1551 Mt. Rose Avenue<br/>York, Pennsylvania 17403<br/>717-848-3755</p> | <p>single seal<br/>hot melt butyl</p>                        | <p>IGCC-167<br/>Class C</p>   |

## CERTIFIED PRODUCTS

|   |  |                               |
|---|--|-------------------------------|
| <p>Havlin-Witkin Sacramento<br/>160 Main Street<br/>Sacramento, California 95838<br/>916-929-4401</p>                     | <p>dual seal<br/>polyisobutylene/silicone</p>                | <p>IGCC-160<br/>Class CBA</p> |
| <p>Ideal Company<br/>2400 Franklin Avenue<br/>Waco, Texas 76703<br/>817-754-4631</p>                                      | <p>single seal<br/>Thiokol LP® polysulfide</p>               | <p>IGCC-145<br/>Class CBA</p> |
| <p>Illinois Valley Glass and Mirror Company<br/>3300-10 N.E. Adams Street<br/>Peoria, Illinois 61603<br/>309-682-6603</p> | <p>single seal<br/>hot melt butyl</p>                        | <p>IGCC-147<br/>Class CBA</p> |
| <p>Kensington Manufacturing Company<br/>P.O. Box 571<br/>Leechburg, Pennsylvania 15656<br/>412-845-8133</p>               | <p>single seal<br/>hot melt butyl</p>                        | <p>IGCC-146<br/>Class CBA</p> |
| <p>Le Vitrage Isolant S. A.<br/>Zone Industrielle<br/>Gaillefontaine, France 76870<br/>(35) 90.97.70</p>                  | <p>dual seal<br/>polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-150<br/>Class C</p>   |
| <p>Louisiana-Pacific Corporation<br/>4409 South Cleveland Massillon Road<br/>Norton, Ohio 44203<br/>216-745-1661</p>      | <p>single seal<br/>Thiokol LP® polysulfide</p>               | <p>IGCC-127<br/>Class C</p>   |
| <p>Mercer Industries, Inc.<br/>2636 N.W. Twenty-sixth<br/>Portland, Oregon 97210<br/>503-226-2511</p>                     | <p>single seal<br/>Thiokol LP® polysulfide</p>               | <p>IGCC-135<br/>Class C</p>   |
| <p>Multipane of New England, Inc.<br/>105 Norwood Avenue<br/>Newtonville, Massachusetts 02160<br/>617-964-8188</p>        | <p>single seal<br/>Thiokol LP® polysulfide</p>               | <p>IGCC-130<br/>Class C</p>   |
| <p>Ohio Plate Glass Company<br/>601 Detroit Avenue<br/>Monroe, Michigan 48161<br/>313-241-8232</p>                        | <p>dual seal<br/>polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-114<br/>Class CBA</p> |
| <p>PPG Industries, Inc.<br/>2410 Squire Place<br/>Dallas, Texas 75234<br/>214-243-8141</p>                                | <p>dual seal<br/>butyl/hot melt butyl</p>                    | <p>IGCC-158<br/>Class CBA</p> |
| <p>PPG Industries, Inc.<br/>500 Third Avenue<br/>Ford City, Pennsylvania 16226<br/>412-762-1211</p>                       | <p>dual seal<br/>butyl/hot melt butyl</p>                    | <p>IGCC-159<br/>Class CBA</p> |
| <p>Salem Aluminum Window Company, Inc.<br/>1337 Madison Street, N.E.<br/>Salem, Oregon 97303<br/>503-364-0126</p>         | <p>single seal<br/>hot melt butyl</p>                        | <p>IGCC-168<br/>Class C</p>   |



# CERTIFIED PRODUCTS

|  |   |  |
|--|---|--|
| <p>Semling-Menke Company, Inc.<br/>           South Nast Street<br/>           Merrill, Wisconsin 54452<br/>           715-536-9411</p>        | <p>single seal<br/>           hot melt butyl</p>                        | <p>IGCC-139<br/>           Class C</p>   |
| <p>Solar Seal Corporation<br/>           213 Turnpike Street<br/>           Stoughton, Massachusetts 02072<br/>           617-344-9022</p>     | <p>dual seal<br/>           polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-117<br/>           Class CBA</p> |
| <p>Solar Seal South, Inc.<br/>           100 South Leadbetter Road<br/>           Ashland, Virginia 23005<br/>           804-798-6051</p>      | <p>dual seal<br/>           polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-148<br/>           Class CBA</p> |
| <p>Soule Glass Industries<br/>           89 Hildreth Street<br/>           Bangor, Maine 04401<br/>           207-945-9481</p>                 | <p>single seal<br/>           Thiokol LP® polysulfide</p>               | <p>IGCC-156<br/>           Class CB</p>  |
| <p>Southern Wholesale Glass, Inc.<br/>           3200 Austell Road<br/>           Marietta, Georgia 30060<br/>           404-432-2255</p>      | <p>single seal<br/>           Thiokol LP® polysulfide</p>               | <p>IGCC-141<br/>           Class CB</p>  |
| <p>Sun*Tek Industries, Inc.<br/>           5 Progress Way<br/>           Woodburn, Oregon 97071<br/>           503-981-3991</p>                | <p>single seal<br/>           Permapol® polysulfide</p>                 | <p>IGCC-162<br/>           Class C</p>   |
| <p>Ultralum<br/>           960 Seville Road<br/>           Wadsworth, Ohio 44281<br/>           216-336-3523</p>                               | <p>single seal<br/>           hot melt butyl</p>                        | <p>IGCC-151<br/>           Class CBA</p> |
| <p>Viracon, Inc.<br/>           800 Park Drive<br/>           Owatonna, Minnesota 55060<br/>           507-451-9555</p>                        | <p>single seal<br/>           Thiokol LP® polysulfide</p>               | <p>IGCC-120<br/>           Class CB</p>  |
| <p></p>  | <p>dual seal<br/>           polyisobutylene/Thiokol LP® polysulfide</p> | <p>IGCC-153<br/>           Class CBA</p> |
| <p></p>  | <p>dual seal<br/>           polyisobutylene/silicone</p>                | <p>IGCC-169<br/>           Class CBA</p> |
| <p>Weather Shield Glass Division<br/>           675 East Allman Street<br/>           Medford, Wisconsin 54451<br/>           715-748-2100</p> | <p>single seal<br/>           Thiokol LP® polysulfide</p>               | <p>IGCC-143<br/>           Class CB</p>  |
| <p>Western Insulated Glass Company<br/>           1030 North 22 Avenue<br/>           Phoenix, Arizona 85009<br/>           602-258-7084</p>   | <p>single seal<br/>           Thiokol LP® polysulfide</p>               | <p>IGCC-149<br/>           Class C</p>   |

# ROSTER

November, 1979

## BOARD OF GOVERNORS

### Representing Public Interest

Richard C. Elstner, Wiss, Janney, Elstner  
Mahn Hee Hahn, Dennis Ind. (non-voting)  
Sylvia Lav, Consumer  
Joseph E. Minor, Texas Tech University  
Orville L. Pierson, Consumer  
Donald R. Uhlmann, M.I.T.  
Jerry Wulf, Andersen Corporation

### Representing Industry

Colin S. Brady, Twin Pane  
DeWitt W. Markham, PRC  
James A. Millen, PPG Industries  
Roger D. O'Shaughnessy, Cardinal  
Edward F. Scheuerell, Weather-Shield  
Donald J. Vild, Libbey-Owens-Ford

### IGCC Officers

Donald J. Vild, President  
Colin S. Brady, Vice President  
Joseph E. Minor, Secretary  
Orville L. Pierson, Treasurer

## IGCC CERTIFICATION COMMITTEE

Colin S. Brady, Chairman  
Jerry Wulf, Vice Chairman

| <u>Licensee</u>                  | <u>Primary Member</u>     | <u>First Alternate</u> | <u>Second Alternate</u>  |
|----------------------------------|---------------------------|------------------------|--------------------------|
| Blomberg Window Systems          | Thomas B. Blomberg        |                        |                          |
| Burton Enterprises               | Robert B. Price           |                        |                          |
| C-E Glass                        | Thomas P. Martin          |                        |                          |
| Cardinal Insulated Glass Company | Roger D. O'Shaughnessy    | Robert F. Erke         | James Effinger           |
| Economy Glass Corporation        | Julius Pearl              |                        |                          |
| General Glass Corporation        | Paul Toltz                |                        |                          |
| Glastek                          | Jack D. Ferrell           |                        |                          |
| Havlin-Witkin Sacramento         | Paul Thompson             |                        |                          |
| Ideal Company                    | Allan J. Cunningham       |                        |                          |
| Illinois Valley Glass & Mirror   | Warren R. Watkins         |                        |                          |
| Le Vitrage Isolant, S.A.         | Pierre Chavy (non-voting) |                        |                          |
| Libbey-Owens-Ford Company        | Donald J. Vild            | Sam E. Baldwin         | A. William Lingnell, III |
| PPG Industries, Inc.             | Samuel Saloum, Jr.        | James A. Millen        | Richard T. McGuire       |
| Salem Aluminum Window Company    | George E. Logan           |                        |                          |
| Semling-Menke Company            | Bert Hout                 |                        |                          |
| Solar Seal Corporation           | Frederic P. Shaw, Jr.     |                        |                          |
| Soule Glass Industries           | Preston J. Richardson     |                        |                          |
| Southern Wholesale Glass         | Douglas A. Long           |                        |                          |
| Twin Pane                        | Colin S. Brady            | Paul Daugherty         |                          |
| Viracon, Inc.                    | Harold Landsman           | Charles Mark           | James Full               |
| Weather-Shield                   | Edward F. Scheuerell      | Jim Sorge              |                          |

### Members by virtue of being a governor

|                       |                    |
|-----------------------|--------------------|
| Wiss, Janney, Elstner | Richard C. Elstner |
| Dennis Industries     | Mahn Hee Hahn      |
| Consumer              | Sylvia Lav         |
| Texas Tech University | Joseph E. Minor    |
| Consumer              | Orville L. Pierson |
| M.I.T.                | Donald R. Uhlmann  |
| Andersen Corporation  | Jerry Wulf         |

|                         |                               |
|-------------------------|-------------------------------|
| Legal Counsel:          | Jenner and Block              |
| Auditor:                | Joseph B. Press, CPA          |
| Administrative Manager: | Robert A. Nance               |
| Administrative Staff:   | Richard W. Abels<br>Jan Nance |



## IGCC BOARD OF GOVERNORS

### *Representing Public Interest*

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Telephone 617-253-6895

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Bayport, Minnesota 55003  
Telephone 612-439-5150

### *Representing Industry*

Mr. Colin S. Brady  
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Livonia, Michigan 48150

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Products Research and Chemical Corp.  
410 Jersey Avenue  
Gloucester City, New Jersey 08030  
Telephone 609-456-5700

Mr. James A. Millen  
PPG Industries, Inc.  
1701 East Woodfield Road  
Schaumburg, Illinois 60195  
Telephone 312-884-1840

Mr. Roger D. O'Shaughnessy  
Cardinal Insulated Glass Company  
6700 Excelsior Boulevard  
Minneapolis, Minnesota 55426  
Telephone 612-935-1722

Mr. Edward F. Scheuerell  
Weather-Shield Glass Division  
675 East Allman Street  
Medford, Wisconsin 54451  
Telephone 715-748-2100

Mr. Donald J. Vild  
Libbey-Owens-Ford Company  
1701 East Broadway  
Toledo, Ohio 43605  
Telephone 419-247-4231

## “PROTOTYPE IN PROGRESS”

The following manufacturers have a prototype test in progress for possible inclusion in the IGCC program.

| Manufacturer  | Date Of Fabrication | Date Of Contract |
|---|---------------------|------------------|
| Binning's Building Products<br>Lexington, North Carolina          | November 20, 1979   |                  |
| M.L. Burke; Division of A.T.I.<br>Cornwells Heights, Pennsylvania |                     | January 28, 1980 |
| Capitol Glass and Aluminum Corporation<br>Salt Lake City, Utah    | October 1, 1979     |                  |
| Cardinal Insulated Glass Company<br>Spring Green, Wisconsin       |                     | December 3, 1979 |
| Economy Glass Corporation<br>Boston, Massachusetts                | July 10, 1978       |                  |
| O.M. Edwards Company<br>Syracuse, New York                        | November 13, 1979   |                  |
| General Glass Corporation<br>Denver, Colorado                     |                     | November 9, 1979 |
| Glastek Corporation<br>Indianapolis, Indiana                      | March 23, 1979      |                  |
| Living Windows Corporation<br>Houston, Texas                      | December 12, 1978   |                  |
| Quakerpane<br>Quakertown, Pennsylvania                            | November 15, 1979   |                  |
| Thermaglas, Inc.<br>Saginaw, Michigan                             | September 28, 1979  |                  |
| Three Rivers Aluminum Company, Inc.<br>Zelienople, Pennsylvania   | May 9, 1979         |                  |
| Twin Pane<br>Livonia, Michigan                                    | July 20, 1979       |                  |
| Twin Pane<br>Greenville, South Carolina                           | August 20, 1979     |                  |
| Viracon, Inc.<br>Bensenville, Illinois                            | July 13, 1979       |                  |

Note: An additional 20 models are in prototype testing, however these manufacturers have not elected to be listed.



## Participants (Suppliers)

Allmetal, Inc.  
636 Thomas Drive  
Bensenville, Illinois 60106  
Mr. Richard E. Andresen

Eagle Chemical Company, Inc.  
P. O. Box 8116  
Cincinnati, Ohio 45208  
Mrs. Mercedes Robbert

H. B. Fuller Company  
5220 Main Street, N.E.  
Minneapolis, Minnesota 55421  
Mr. David B. Massey

General Electric Silicone Products Division  
Waterford, New York 12188  
Mr. Alfred G. Sanford  
Mr. Stanley J. Bessmer

W. R. Grace and Company  
P. O. Box 2117  
Baltimore, Maryland 21203  
Mr. A. R. Barbarine

Hygrade Metal Moulding Manufacturing Corporation  
540 Smith Street  
Farmingdale, New York 11735  
Mr. Jack Stern

Insulating Glass Systems  
340 Vista Park Drive  
Pittsburgh, Pennsylvania 15205  
Mr. Vincent P. Sadlek

LaPorte Industries, Ltd.  
Luton, Bedfordshire  
United Kingdom LU4 8EW  
Mr. Alan Jarvis

C. R. Laurence Company, Inc.  
2503 East Vernon Avenue  
Los Angeles, California 90058  
Mr. Pete Viscovich

Norton Company  
Interstate 290 Industrial Park  
Northboro, Massachusetts 01532  
Mr. L. D. Donovan

Products Research and Chemical Corporation  
410 Jersey Avenue  
Gloucester City, New Jersey 08030  
Mr. DeWitt W. Markham

Thiokol Corporation  
930 Lower Ferry Road  
Trenton, New Jersey 08650  
Mr. Armen D. Yazujian

Union Carbide Corporation  
308 Harper Drive  
Moorestown, New Jersey 08057  
Mr. Gary I. Mankin

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

Woodmont Products, Inc.  
County Line and New Roads  
Huntingdon Valley, Pennsylvania 19006  
Mr. William R. Berlinghoff

Zeochem  
P. O. Box 32370  
Louisville, Kentucky 40230  
Mr. William M. McKinney

## Participants (Non Suppliers)

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2409 Olson Drive  
Kettering, Ohio 45420

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Honolulu, Hawaii 96816

Dr. Mahn Hee Hahn  
19444 St. Johnsbury Lane  
Germantown, Maryland 20767

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Vincentown, New Jersey 08088

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Massapequa Park, New York 11762

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Architectural Testing, Inc.  
1360 North George Street  
York, Pennsylvania 17404

Dr. Joseph E. Minor  
Texas Tech University  
Institute for Disaster Research  
P.O. Box 4089  
Lubbock, Texas 79409

Dr. Orville L. Pierson  
2120 Village of Pennbrook  
Levittown, Pennsylvania 19054

Mr. Robert Schwartz  
Skidmore, Owings & Merrill  
103 Hooverton Place  
East Windsor, New Jersey 08520

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

Mr. Samuel Steen  
1119 DuPont Plaza Center  
Miami, Florida 33131

Dr. Donald R. Uhlmann  
Massachusetts Institute of Technology  
Building 13-4005  
Cambridge, Massachusetts 02139

Mr. Alonzo S. Westbrook  
State of Tennessee  
Division of Architectural Services  
One Commerce Place; Suite 1000  
Nashville, Tennessee 37219

Mr. Jerry Wulf  
Andersen Corporation  
Bayport, Minnesota 55082



## *IGCC<sup>®</sup> 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 IGCC. 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<sup>®</sup> or a close facsimilie, i.e. IGCC<sup>®</sup>.

The IGCC permanent label must contain the IGCC number, CBA, CB or C and a date code spanning no more than a six month period, plus or minus one month and commencing with the beginning of each calendar year (effective for both the beginning and ending of each period). The IGCC permanent label must be affixed to certified products only at the time and place of manufacture. Outdated spacers may be hand stamped to bring the label up to date.

The alpha part of the label (C, CB, or CBA) will be considered as part of the IGCC number.

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:**

IGCC<sup>®</sup> -666 CBA F 80

CB  
IGCC<sup>®</sup> -987  
F80

## MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Insulating Glass Certification Council met on April 18 and November 8 during 1979.

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, 1980; 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:

Mrs. Jan Nance  
Administrative Assistant  
Insulating Glass Certification Council  
1640 West 32 Place  
Hialeah, Florida 33012

Telephone: 305-558-1480

\* \* \* \* \*





1640 WEST 32 PLACE  
HIALEAH, FLORIDA 33012  
PHONE NO. 305-558-1480

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

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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.
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 E6-P3 containing our X component have been found to meet the requirements of Class Y".

**Credibility in Industry Certification through Active Public Participation.**

7. For clarity, it is well to remember that the test methods and specifications referenced by IGCC are "proposed" by ASTM, and have not reached full standard status as yet. In advertising, it would be well to quote the term "proposed", or to emphasize the proposed condition in some way. In order to better describe the ASTM test methods and specifications being used by IGCC, listed below is the actual specification (and test methods) which you may want to reference:

1) Specification: ASTM E6-P3 "Proposed Specification for Sealed Insulating Glass Units". ASTM E6-P3 sets forth classifications by virtue of the durability of time in test as applied to either of the two test methods. These classifications are Class CBA, Class CB and Class C.

The test methods to be applied to the above specification are:

1) Test Method: ASTM E6-P1, "Proposed Recommended Practices for Testing Seal Longevity of Sealed Insulating Glass Units"; or

2) Test Method: ASTM E6-P2, "Proposed Recommended Practices for Testing Seal Durability of Sealed Insulating Glass Units" (formerly the SIGMA test method).

8. Should you have any questions concerning the IGCC Certification Program, please contact:

Mrs. Jan Nance  
Administrative Assistant  
Insulating Glass Certification Council  
1640 West 32 Place  
Hialeah, Florida 33012  
Telephone: 305-558-1480



# INSULATING GLASS CERTIFICATION COUNCIL, INC. CERTIFICATION PROGRAM

## for SEALED INSULATING GLASS UNITS LICENSE AGREEMENT

This agreement, made this \_\_\_\_\_ day of \_\_\_\_\_, 19 \_\_\_\_\_, by and between INSULATING GLASS CERTIFICATION COUNCIL, INC., a corporation having its principal office at 1640 West 32 Place; Hialeah, Florida 33012, hereinafter called "LICENSOR"

and \_\_\_\_\_

having its principal office at \_\_\_\_\_ hereinafter called "LICENSEE".

### WITNESSETH

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

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

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

WHEREAS, the Administrator shall contract for services with independent laboratories which meet the ethical, financial, and business experience standards of the American Council of Independent Laboratories or National Society of Professional Engineers for performance of tests and other administrative duties as are herein provided; and

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

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

WHEREAS, the Administrator shall conduct all aspects of the program in accordance with the highest nationally recognized standards for conduct of such a program including but not limited to ANSI Z-34.1 1959; and

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

Therefore, be it

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

LICENSEE:

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

A. 2 Shall allow Administrator's representative, without prior notice, free access at any time during regular business hours, to Licensee's place of manufacture of insulating Glass Units certified hereunder and to witness the manufacture of samples which are to be tested for compliance with the requirements. Licensee's refusal to permit access for inspection purposes hereunder may be due cause for removal of its entire product listing from the Certification Directory and the withdrawal of its rights to affix Certification Labels thereto. Acceptable reasons for not permitting entrance for inspections would include strikes, acts of God, and circumstances beyond immediate control of the manufacturer. Areas which may have been set aside for research or prototype development may be restricted. It is understood that the Administrator or his representative shall be allowed to pick up samples from the field for inspection or testing. It is understood that one test per year will be made on each model to be certified and that said tests will be made at the laboratory selected by the Administrator or Licensee from the approved list. Results of each test shall be promptly mailed to the IGCC Administrator. IGCC will notify the Licensee of compliance or non-compliance. It is further understood that routine expense of sampling and testing will be borne by the Licensee. The Licensor will charge each Licensee accordingly and contract with the Administrator. The Administrator will contract for testing with approved testing laboratories. Expenses for packaging, shipping, and purchasing of glass for testing will also be borne by the Licensee. These costs will be handled directly between the Administrator and each Licensee.

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

a) Only at the time and place of manufacture; and b) Only to Insulating Glass Units of Licensee's own manufacture, which have been so approved by the Licensor.

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

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

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

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

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

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

A. 10 In connection with the advertising of model systems which the Licensor has approved and granted a certification number or label, the Licensee must use the following concepts as guidelines:

Licensor (IGCC) Sponsors the Certification Program.  
Licensee (Manufacturer) Certifies that the product is the same as the model which has been tested.

Independent Laboratories Test the models and report the results.  
Administrator Validates the test results through inspections according to the Licensor's guidelines.

A. 11 Shall abide by the decision of the Administrator as to the compliance or non-compliance of Licensee's products, determined in accordance with the requirements of the specification testing of such products. It is understood that the Administrator shall be the sole judge of compliance or non-compliance with the Specifications, for purposes of Licensor's certification of such a product under this Program. Where questions involving interpretation arise, the matter will be referred to the Certification Committee for ruling.

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

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

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

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

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



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

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

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

LICENSOR:

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

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

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

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

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

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

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

IT IS FURTHER AGREED THAT:

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

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

C. 3 A procedure for handling complaints of non-compliance which provides for samples of like product to be provided by Licensee in a specified manner for repetition of tests within thirty (30) days, the total cost of which, including test specimens, is to be borne by the complainant, unless the test proves non-compliance, in which case the costs will be borne by the Licensee; tests to be initiated by the Licensor promptly upon receipt of a complaint in writing along with the appropriate surety deposit.

C. 4 This Agreement shall become effective on the date of signing and shall extend for a period of 12 months and shall be renewed automatically for successive periods of 12 months each, unless Licensor or Licensee, at least sixty (60) days prior to the date of

expiration, gives notice in writing that cancellation is requested or unless revoked by Licensor for causes set forth in this Agreement.

C. 5 If this Agreement is terminated, then upon the effective date of such termination, Licensee shall: a) Not affix the registered Certification Labels to any product which Licensee shall thereafter manufacture; and b) Make no further reference to or use of Licensor's Certification Program or registered Certification Labels.

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

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

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

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

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

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

C. 12 Licensee shall indemnify and hold Licensor harmless as to any expense whatsoever for any claims, losses, or defense of claims or losses, which may be asserted against Licensor by reason of this Agreement and services performed hereunder, so long as such claims or losses shall not have arisen directly or indirectly as a result of any act or omission of Licensor or of its agents.

C. 13 Neither party shall make use of the others trademarks, trade names or name in any manner without the prior written approval of the other, provided each party hereby authorizes the other, during the term of this Agreement to state that the Licensee is a participant in this Certification Program.

This LICENSE AGREEMENT may not be transferred, assigned, nor otherwise disposed of to any other company, individual, or successor company.

LICENSEE: Company \_\_\_\_\_

Street Address \_\_\_\_\_

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

By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Same person must have notarized signature on Appendix A.

LICENSOR: Insulating Glass Certification Council, Inc.

By \_\_\_\_\_ Title \_\_\_\_\_ Date \_\_\_\_\_

Sign and mail 2 copies to:  
Insulating Glass Certification Council  
1640 West 32 Place; Hialeah, Florida 33012

A copy signed by Licensor  
will be returned to Licensee.



**APPENDIX A**

**INSULATING GLASS CERTIFICATION COUNCIL  
CERTIFICATION PROGRAM**

for  
**SEALED INSULATING GLASS UNITS**

**AFFIDAVIT** (Execute one copy for each model)

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

\_\_\_\_\_, located at:

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

FOR LICENSEE: \_\_\_\_\_  
(Must be same signature as License Agreement and notarized below)

\_\_\_\_\_  
(Title) Licensee Engineer or other designee:

\_\_\_\_\_  
(Name)

Model to be certified; Describe briefly: \_\_\_\_\_  
Attach additional sheets if necessary. \_\_\_\_\_  
(Title)

Test method to be used (check one) ASTM E6-P1 \_\_\_\_\_

Test laboratory to be used \_\_\_\_\_ ASTM E6-P2 \_\_\_\_\_

Specification Class(es) to be tested to: ASTM E6-P3 Class C \_\_\_\_\_

Class B \_\_\_\_\_

Class A \_\_\_\_\_

State of )  
) SS

County of )

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

\_\_\_\_\_  
(Notary Public)

Mail original to Insulating Glass Certification Council, 1640 West 32 Place,  
Hialeah, Florida 33012. (Retain one copy)

IGCC License Agreement

Appendix B

INSULATING GLASS CERTIFICATION COUNCIL  
for  
SEALED INSULATING GLASS UNITS

SCHEDULE OF FEES

Twelve months fee per item to be listed in the certified products directory. Payable in advance.

|                                  | <u>Contingency<br/>Fund</u> | <u>Administrative<br/>Fee</u> | <u>Test<br/>Fee</u> | <u>Total</u> |
|----------------------------------|-----------------------------|-------------------------------|---------------------|--------------|
| First model at a plant           | \$100.00                    | \$557.50                      | *                   |              |
| Each subsequent model at a plant | none                        | 90.00                         | *                   |              |

\*determine from attached sheet of testing laboratory fees (add to contingency fund and administrative fee to determine amount to be paid directly to IGCC for each Appendix A).

ALL FEES MUST BE PAID DIRECTLY TO IGCC IN U. S. DOLLARS AT PAR.

Insulating Glass Certification Council  
1640 West 32 Place  
Hialeah, Florida 33012

Telephone 305-558-1480

Effective July 1, 1978



Approved Testing Laboratories

|   | Class | P-1           | P-2           |
|---|-------|---------------|---------------|
| Architectural Testing, Inc.<br>1360 North George Street<br>York, Pennsylvania 17404<br>Attention: Mr. Ancel L. Lee, Jr., P.E. | C     | \$ 390*       | \$ 800        |
|   | CB    | 690*          | 1050          |
|   | CBA   | 990*          | 1300          |
| Bowser-Morner Testing Laboratories, Inc.<br>420 Davis Avenue<br>Dayton, Ohio 45401<br>Attention: Mr. R. J. Rosencrans         | C     | \$ 585        | not available |
|   | CB    | 690           |               |
|   | CBA   | 795           |               |
| ETL Testing Laboratories, Inc.<br>Route 11 Industrial Park<br>Cortland, New York 13045<br>Attention: Mr. Claude F. Robb       | C     | \$ 495        | \$ 690        |
|   | CB    | 825           | 965           |
|   | CBA   | 1155          | 1240          |
| Quantity Discount:<br>(3 or more products) (CBA only)   | C     | \$ 495        | \$ 690        |
|   | CB    | 750           | 890           |
|   | CBA   | 1005          | 1090          |
| Jim Spetz Testing Laboratory<br>29308 Armadale Avenue<br>Wickliffe, Ohio 44092<br>Attention: Mr. James L. Spetz               | C     | not available | \$ 625        |
|   | CB    |               | 850           |
|   | CBA   |               | 1075          |

\* Equipment not completed and operating as of February 1, 1980.

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 These laboratories have been approved by the certification committee contingent upon satisfactory inspection and survey.

Inspection and Research Laboratory, Inc.  
 4749 West State Street; Building H  
 Ontario, California 91761  
 Attention: Mr. W. Bradford Smith

National Certified Testing Laboratories  
 One Interstate Plaza  
 York, Pennsylvania 17402  
 Attention: Mr. Dale E. Hein, P.E.

Institute for Research, Inc.  
 8330 Westglenn Drive  
 Houston, Texas 77063  
 Attention: Dr. Benjamin Mosier

## 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 proposed ASTM specification 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 inplant visits and product evaluation, a program of product certification is developed in accordance with the accepted American National Standards as contained in American National Standards Z34.1. 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 proposed ASTM specification E6-P3.

#### *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*

Certification Services Corporation (CSC), is the independent *administrator* of the certification program. CSC 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 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 twelve month 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. This number *must* be incorporated into the permanent label to 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 proposed 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 administrative 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 complainant's surety deposit, *unless* the investigation proves non-compliance, *in which case all costs will be borne by the licensee found to be in non-compliance.*

### *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 fee will be for a period of twelve months. However, the next invoice to a licensee will have the fees prorated to the nearest whole month in such a manner that participation in the Certification Program will be on a February 1 to January 31 basis. 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 prior to the six month period during which the specimens will be fabricated and tested.

Initial certification for each item will be for a period of twelve months commencing with acceptance of the license agreement. The next invoice will be prorated to a February 1 date.

## **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 Certification Services Corporation, governs the relationship between IGCC and CSC, 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.

## 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  
Mr. Donald J. Vild, President  
Libbey-Owens-Ford Company  
1701 East Broadway  
Toledo, Ohio 43605

Telephone 419-247-4231

IGCC Certification Committee  
Mr. Colin S. Brady, Chairman  
Twin Pane  
31251 Industrial Road  
Livonia, Michigan 48150

Telephone 313-522-8400

Insulating Glass Certification Council  
Mr. Robert A. Nance, P.E.  
Administrative Manager  
1640 West 32 Place  
Hialeah, Florida 33012

Telephone 305-558-1480

Insulating Glass Certification Council  
Mrs. Jan Nance  
Administrative Assistant  
1640 West 32 Place  
Hialeah, Florida 33012

Telephone 305-558-1480

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## 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 and label 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 on 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

Soldered, welded or brazed spacer corners may be used with the same IGCC number.

##### A.SP.6

Mechanically fastened and sealed corners (those with keys) may be changed from one material to another provided that the substrate of the key does not change from that tested. It can be changed to the substrate of the spacer, however.

#### **DESICCANT**

##### A.DE.1

Equal amount or increase in quantity of the identical desiccant per inch of edge will not require a different IGCC number, however up to one fourth less may be used in proportion to reduction of air space dimension from that tested.

##### A.DE.2

A change in supplier of the same general 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.

**SEALANT**

A.SE.1

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

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**NEVER**

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

**SPACER**

N.SP.1

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

N.SP.2

A change in spacer surface finish, i.e. anodized to mill finish or hot dip to electro galvanized, will 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.

**DESICCANT**

N.DE.1

A change in general type of desiccant will require a different IGCC number.

**SEALANT**

N.SE.1

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

N.SE.2

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

N.SE.3

In a two sealant system, a change in general 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.

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**GENERAL**

G.1

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.



G.2

The addition of a breather tube is acceptable even though not in the test specimen.

G.3

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

G.4

Inorganically coated glass may be used provided that the sealant or sealants contact glass or contact silica or a glass like material and no other organic materials have been introduced into the system and the layers of silica and metal have a bond strength in excess of the sealant bond strength.

G.5

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.
- 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. (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.6

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.7

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.8

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 diamond pattern. The IGCC label can not be used on a sealed insulating glass unit unless the tested prototype contained internal muntins.

G.9

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

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

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



G.12

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.13

The administrator shall remove authorization to use the IGCC permanent label from all of any licensee's products for failure to pay monies due to IGCC within 30 days of invoice date. (Reference License Agreement A.13 and B.6)

G.14

The prototype test will be considered as the test for the first year of certification. The next fabrication for testing purposes will be in the first half of the second year.

G.15

Multiple air space units may be labeled 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.16

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.17

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

G.18

The alpha part of the label (C, CB, or CBA) will be considered as part of the IGCC number.

G.19

A test run to the same level on units having coated glass with similar results on uncoated glass units would be an alternate for labeling for that particular coating and unit. The thickest and thinnest coating tested shall be sufficient demonstration of an alternate for labeling rather than every thickness being tested.



*IGCC® APPROVED LABORATORIES PRESENTLY CONDUCTING TESTS*

**P-1**

Bowser-Morner Testing Laboratories  
420 Davis Avenue  
Dayton, Ohio 45401  
Attention: Mr. R. J. Rosencrans

Telephone 513-253-8805

ETL Testing Laboratories, Inc.  
Route 11 Industrial Park  
Cortland, New York 13045  
Attention: Mr. Claude F. Robb

Telephone 607-753-6711

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**P-2**

Architectural Testing, Inc.  
1360 North George Street  
York, Pennsylvania 17404  
Attention: Mr. Ancel L. Lee, Jr., P. E.

Telephone 717-846-7700

Jim Spetz Testing Laboratory  
29308 Armadale Avenue  
Wickliffe, Ohio 44092  
Attention: Mr. James L. Spetz

Telephone 216-944-3665

ETL Testing Laboratories, Inc.  
Route 11 Industrial Park  
Cortland, New York 13045  
Attention: Mr. Claude F. Robb

Telephone 607-753-6711

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Adopted: May 13, 1977  
Revised: July 1, 1978

1640 WEST 32 PLACE  
HIALEAH, FLORIDA 33012  
PHONE NO. 305-558-1480

## INSULATING GLASS CERTIFICATION COUNCIL

### 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 1 - 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 \$100.00 per company.

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

**Credibility in Industry Certification through Active Public Participation.**



**PROPOSED SPECIFICATION FOR  
SEALED INSULATING GLASS**

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