

AUGUST 1, 1978



insulating glass certification council

Credibility in Industry Certification through Active Public Participation.

certified products directory
sealed insulating glass

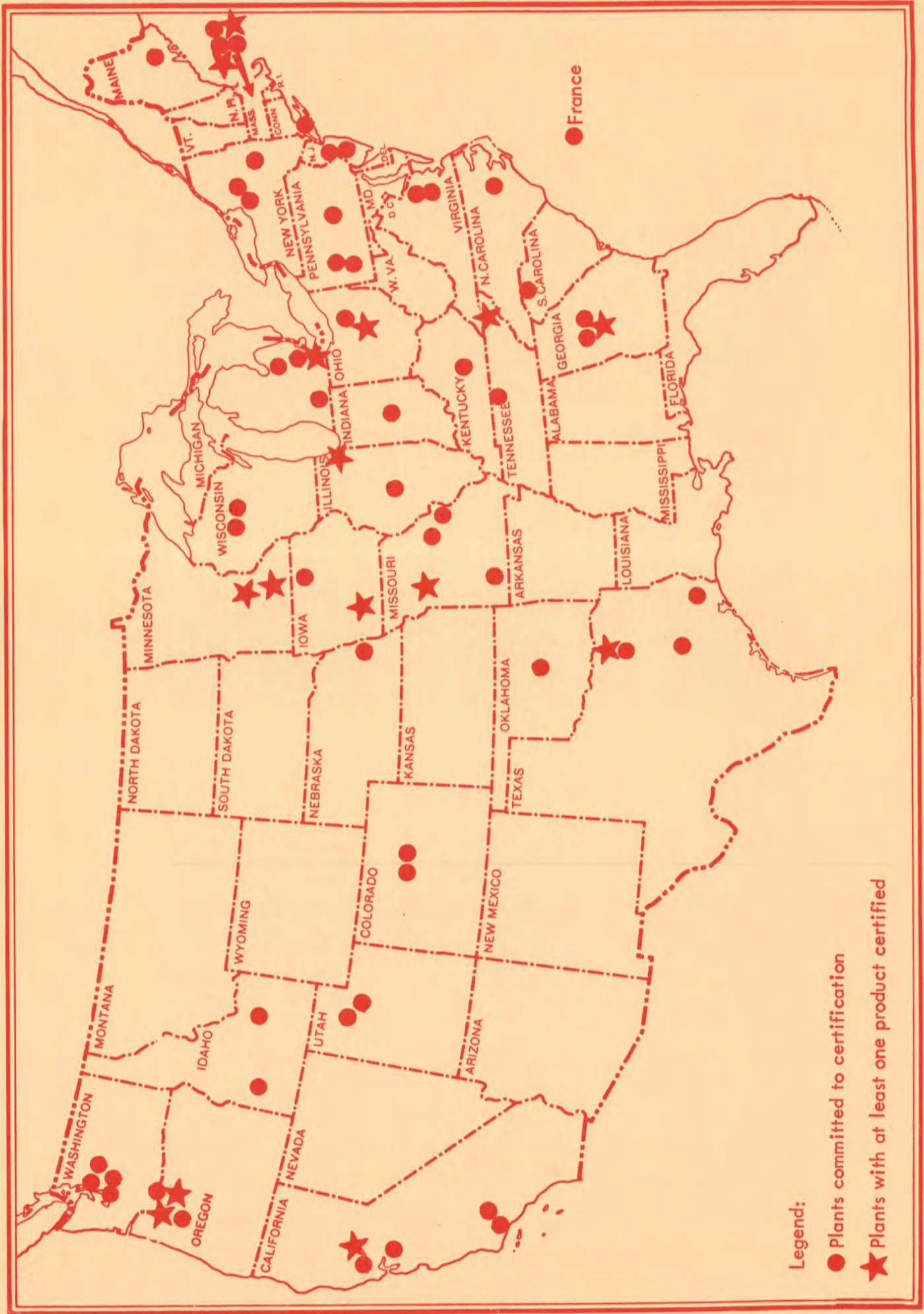


TABLE OF CONTENTS

Program Concept	page 4
Certified Products	page 5
Roster	page 6
Board of Governors	page 7
Licensees	page 8
Participants	page 11
Manufacturing Plants	page 12
Meetings	page 14
IGCC Label Requirements	page 15
IGCC Laboratories	page 16
Advertising Guideline	page 17
License Agreement	page 19
Appendix A	page 21
Appendix B	page 23
Procedural Guide	page 25
Communications	page 31
Guidelines	page 32
Participant's Agreement	page 37

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

ASG Industries, Inc. Kingsport, Tennessee	Class CB Class CBA	IGCC-125 IGCC-126
Cardinal Insulated Glass Company Greenfield, Iowa	Class CBA	IGCC-113
Cardinal Insulated Glass Company Minneapolis, Minnesota	Class CBA	IGCC-124
Havlin-Witkin Sacramento Sacramento, California	Class CB	IGCC-123
Independent Insulating Glass Company Chicago, Illinois	Class CB	IGCC-112
Independent Insulating Glass/Northeast, Inc. Chelmsford, Massachusetts	Class C	IGCC-115
Independent Insulating Glass/Southeast, Inc. Atlanta, Georgia	Class C	IGCC-111
Louisiana-Pacific Corporation Norton, Ohio	Class C Class C	IGCC-119 IGCC-127
Ohio Plate Glass Company Monroe, Michigan	Class CBA	IGCC-114
Solar Seal Corporation Stoughton, Massachusetts	Class CBA	IGCC-117
Sun*Tek Industries, Inc. Woodburn, Oregon	Class C	IGCC-122
Thermoglas Garland, Texas	Class C	IGCC-129
Thermoglas Kansas City, Kansas	Class C	IGCC-128
Viking Industries, Inc. Portland, Oregon	Class C	IGCC-121
Viracon, Inc. Owatonna, Minnesota	Class CB Class CB	IGCC-116 IGCC-120

ROSTER

May, 1978

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 Uhlman, M.I.T.
 Jerry Wulf, Andersen Corporation

Representing Industry

Irving Feinman, Inde-pane
 William F. Harder, Louisiana Pacific
 DeWitt Markham, PRC
 James A. Millen, PPG Industries
 Roger D. O'Shaughnessy, Cardinal
 Donald J. Vild, Libbey-Owens-Ford

IGCC Officers

Roger O'Shaughnessy, President
 Donald J. Vild, Vice President
 Richard C. Elstner, Secretary
 Irving Feinman, Treasurer

IGCC CERTIFICATION COMMITTEE

Donald J. Vild, Chairman
 Jerry Wulf, Vice Chairman

<u>Licensee</u>	<u>Primary Member</u>	<u>First Alternate</u>	<u>Second Alternate</u>
ASG Industries	William C. Cooke		
Amsco	R. P. Rasmussen	Noel Robertson	
Blomberg Window Systems	Jerome O. Blomberg	Thomas B. Blomberg	
Burton Enterprises	G. Randall Davis		
C-E Glass	Thomas P. Martin		
Cardinal Insulated Glass	Roger D. O'Shaughnessy	Charles Gustafson	Robert F. Erke
Economy Glass Corporation	Julius Pearl		
General Glass Corporation	Paul Toltz		
Glastek	Jack D. Ferrell		
Ideal Company	Allan J. Cunningham		
Inde-pane/Southeast	Irving Feinman	Joseph M. Scalzo	
Libbey-Owens-Ford	Donald J. Vild	Leroy E. Drake, Jr.	Gary D. Adams
PPG Industries	Samuel Saloum, Jr.	James A. Millen	Richard T. McGuire
Salem Aluminum Window Company	George E. Logan		
Semling-Menke Company	Bert Hout		
Solar Seal	Frederic P. Shaw, Jr.		
Soule Glass	Preston J. Richardson		
Southern Wholesale Glass	Douglas A. Long		
Twin Pane	Colin S. Brady		
Viking Industries	Paul Warner		
Viracon	Harold Landsman	Charles Mark	James Full
Weather-Shield	Edward F. Scheuerell		

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 Uhlman
Andersen Corporation	Jerry Wulf

Legal Counsel:

Jenner and Block

Auditor:

Joseph B. Press, CPA

Administrative Staff:

Robert A. Nance
 Carl R. Walden

IGCC BOARD OF GOVERNORS

Representing Public Interest

Mr. Richard C. Elstner, S. E. ✓
Wiss, Janney, Elstner and Associates
330 Pfingsten Road
Northbrook, Illinois 60062
Telephone 312-272-7400

Dr. Mahn Hee Hahn (non voting) ✓
Dennis Industries
19444 St. Johnsbury Lane
Germantown, Maryland 20767
Telephone 301-428-0471

Mrs. Sylvia Lav ✓
98 Princeton Road
Rockville Center, New York 11570
Telephone 515-764-1732

Dr. Joseph E. Minor, P. E. ✓
Institute for Disaster Research
Texas Tech University
P. O. Box 4089
Lubbock, Texas 79409
Telephone 806-742-3523

Dr. Orville L. Pierson ✓
862 Gainsway Road
Yardley, Pennsylvania 19067
Telephone 215-493-1595

Dr. Donald Uhlmann
Massachusetts Institute of Technology
Building 13-4005
Cambridge, Massachusetts 02139
Telephone 617-253-6895

Mr. Jerry Wulf
Andersen Corporation
Bayport, Minnesota 55003
Telephone 612-439-5150

Representing Industry

Mr. Irving Feinman ✓
Independent Insulating Glass Company
3145 Columbus Avenue
Chicago, Illinois 60652
Telephone 312-925-2300

Mr. William F. Harder
Louisiana-Pacific Corporation
4409 Cleveland Massillon Road
Norton, Ohio 44203
Telephone 216-745-1661

Mr. DeWitt W. Markham ✓
Products Research and Chemical Corp.
410 Jersey Avenue
Gloucester City, New Jersey 08030
Telephone 609-456-5700

Mr. James Millen ✓
PPG Industries, Inc.
One Gateway Center
Pittsburgh, Pennsylvania 15230

Mr. Roger D. O'Shaughnessy ✓
Cardinal Insulated Glass Company
6700 Excelsior Boulevard
Minneapolis, Minnesota 55406
Telephone 612-935-1722

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

LICENSEES

ASG Industries, Inc.
P. O. Box 929
Kingsport, Tennessee 37662
Mr. David K. Shaddock

Cardinal Insulated Glass Company
6700 Excelsior Boulevard
Minneapolis, Minnesota 55426
Mr. Roger D. O'Shaughnessy

Acorn Building Components, Inc.
12620 Westwood Avenue
Detroit, Michigan 48223
Mr. Joseph DiFazio

Chrome-A-Seal Insulating Glass
725 Varick Street
Utica, New York 13502
Mr. Philip Talento

Amsco
1880 South 1045 Street
Salt Lake City, Utah 84125
Mr. R. P. Rasmussen

Delaware Valley Insulating Glass Company
1100 Ferry Avenue
Camden, New Jersey 08104
Mr. Malcolm Farbstein

Armour World Wide Glass Company
9401 Ann Street
Santa Fe Springs, California 90670
Mr. Jay Russell

Dorco Manufacturing Company, Inc.
591 North Council Street
Gallatin, Tennessee 37066
Mr. Ray Dorris

Belknap Glass Company
1000 Valley Street
Seattle, Washington 98124
Mr. Charles M. Anderson

Double Seal Glass Company, Inc.
1976 Bagwell Avenue
Flint, Michigan 48501
Mr. Edmund C. Mogford, Jr.

Bennett's
2131 South 300 West
Salt Lake City, Utah 84115
Mr. William E. Black

Economy Glass Corporation
315 Columbus Avenue
Boston, Massachusetts 02116
Mr. Julius Pearl

Blomberg Window Systems
1395 Blair Avenue
Sacramento, California 95822
Mr. Thomas B. Blomberg

Econopane Insulating Glass Company, Inc.
P. O. Box 49
Lewistown, Pennsylvania 17044
Mr. Charles E. Childers

Burton Enterprises, Inc.
MacArthur Avenue
Cobleskill, New York 12043
Mr. G. Randall Davis

Efco Corporation
200 West Dairy Street
Monett, Missouri 65708
Mr. William Terry Fuldner

C-E Glass
825 Hylton Road
Pennsauken, New Jersey 08110
Mr. Thomas P. Martin

Ellstrom Manufacturing, Inc.
1540 N. W. Ballard Way
Seattle, Washington 98107
Mr. Sven Ellstrom

LICENSEES

- F. G. M. Glass Distributors, Inc.
895 Motor Parkway
Hauppauge, New York 11787
Mr. Charles Kaplanek, Jr.
- Fentron Industries, Inc.
2801 N. W. Market Street
Seattle, Washington 98107
Mr. John A. Hartsock
- General Aluminum Corporation
1001 West Crosby Road
Carrollton, Texas 75006
Mr. Charles McEvoy
- General Glass Corporation
1855 29 Street
Denver, Colorado 80217
Mr. Paul Toltz
- Glastek, Inc.
5305 West 84 Street
Indianapolis, Indiana 46268
Mr. Paul Davis
- Havlin-Witkin Sacramento
160 Main Avenue
Sacramento, California 95838
Mr. Paul Thompson
- Ideal Company
2400 Franklin Avenue
Waco, Texas 76703
Mr. Allan J. Cunningham
- Illinois Valley Glass and Mirror Company
3300-10 N. E. Adams Street
Peoria, Illinois 61603
Mr. Warren R. Watkins
- Independent Insulating Glass Company
3145 Columbus Avenue
Chicago, Illinois 60652
Mr. Irving Feinman
- Independent Insulating Glass/Northeast
25 Industrial Avenue
Chelmsford, Massachusetts 01824
Mr. William Collins, Jr.
- Independent Insulating Glass/Southeast
520-B Wharton Circle S. W.
Atlanta, Georgia 30336
Mr. J. M. Scalzo
- Keller Industries, Inc.
18000 State Road Nine
Miami, Florida 33162
Mr. Don Shaeffer
- Kensington Manufacturing Company
Schrieber Industrial Park
New Kensington, Pennsylvania 15068
Mr. James W. Beran
- Le Vitrage Isolant S. A.
Zone Industrielle
Gaillefontaine, France 76870
Mr. Pierre Chavy
- Libbey-Owens-Ford Company
811 Madison Avenue
Toledo, Ohio 43695
Mr. Donald J. Vild
- Linford Brothers Glass Company
1245 South 700 West
Salt Lake City, Utah 84110
Mr. Newel H. Linford
- Louisiana-Pacific Corporation
4409 South Cleveland Massillon Road
Norton, Ohio 44203
Mr. William F. Harder
- Mercer Industries, Inc.
2636 N. W. Twenty-sixth
Portland, Oregon 97210
Mr. Bill Berger

LICENSEES

Milgard Manufacturing, Inc.
1010 54 Avenue, East
Tacoma, Washington 98424
Mr. James A. Milgard

Multipane of New England, Inc.
144 Moody Street
Waltham, Massachusetts 01746
Mr. Marc G. Lemoyne

North American Manufacturing, Inc.
551 Concord Street
Holliston, Massachusetts 01746
Mr. George P. Sullivan

Ohio Plate Glass Company
601 Detroit Avenue
Monroe, Michigan 48161
Mr. Marvin V. Newton

PPG Industries, Inc.
1000 RIDC Plaza; P. O. Box 2811
Pittsburgh, Pennsylvania 15230
Mr. Samuel Saloum, Jr.

Salem Aluminum Window Company, Inc.
1337 Madison Street, N. E.
Salem, Oregon 97303
Mr. George E. Logan

Semling-Menke Company, Inc.
South Nast Street
Merrill, Wisconsin 54452
Mr. John P. Semling

Solar Seal Corporation
213 Turnpike Street
Stoughton, Massachusetts 02072
Mr. Frederic P. Shaw, Jr.

Solar Seal South, Inc.
100 South Leadbetter Road
Ashland, Virginia 23005
Mr. Paul W. Homer

Soule Glass Industries
89 Hildreth Street
Bangor, Maine 04410
Mr. Charles P. Soule

Southern Wholesale Glass, Inc.
3200 Austell Road
Marietta, Georgia 30060
Mr. Douglas A. Long

Sun*Tek Industries, Inc.
5 Progress Way
Woodburn, Oregon 97071
Mr. Ken Hewlett

Thermoglas
5405 N. W. Fifth
Oklahoma City, Oklahoma 73127
Mr. Ben F. Little

Twin Pane
31251 Industrial Road
Livonia, Michigan 48150
Mr. Colin S. Brady

Ultralum
960 Seville Road
Wadsworth, Ohio 44281
Mr. Gordon Miles

Vega Industries Glass Division
4019 New Court Street
Syracuse, New York 13206
Mr. James J. Dwyer

Viking Industries, Inc.
18600 N. E. Wilkes Road
Portland, Oregon 97220
Mr. Paul Warner

Viracon, Inc.
800 Park Drive
Owatonna, Minnesota 55060
Mr. Harold Landsman

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

PARTICIPANTS (Non-licensee)

Allmetal Weatherstrip Company
636 Thomas Drive
Bensenville, Illinois 60106
Mr. Richard Andresen

W. R. Grace and Company
10 East Baltimore Street
Baltimore, Maryland 21203
Mr. A. R. Barbarine

Mr. A. Risher Hall
134 Dorchester Drive
Vincentown, New Jersey 08088

Inmont Corporation
1218 Central Industrial Drive
St. Louis, Missouri 63110
Mr. G. Michael Beers
Mr. Thomas F. Toomey

Laporte Industries, Ltd.
Luton, Bedfordshire
United Kingdom
Mr. Alan Jarvis

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

Rhodia, Inc.
P. O. Box 125
Monmouth Junction, New Jersey 08852
Mr. Thomas LaBue

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

PARTICIPANTS (Public Interest)

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

Mr. Donald L. Conwell
2409 Olson Drive
Kettering, Ohio 45420

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

Mr. Alonzo S. Westbrook, P. E.
Suite 1100
One Commerce Place
Nashville, Tennessee 37219

MANUFACTURING PLANTS

Committed to Certification - Testing in Progress

ASG Industries, Inc.
Greenland, Tennessee

Acorn Building Components, Inc.
Quincy, Michigan

Amsco
Salt Lake City, Utah

Armour World Wide Glass Company
Santa Fe Springs, California

Belknap Glass Company
Seattle, Washington

Bennett's Insulating Plant
Idaho Falls, Idaho

Blomberg Window Systems
Sacramento, California

Burton Enterprises, Inc.
Cobleskill, New York

C-E Glass
Carson, California

C-E Glass
Pennsauken, New Jersey

C-E Glass
Stone Mountain, Georgia

C-E Glass
Warrenton, Missouri

Cardinal Insulated Glass Company
Greenfield, Iowa

Cardinal Insulated Glass Company
Minneapolis, Minnesota

Chrome-A-Seal Insulating Glass
Rome, New York

Delaware Valley Insulating Glass Company, Inc.
Camden, New Jersey

Dorco Manufacturing Company, Inc.
Gallatin, Tennessee

Double Seal Glass Company, Inc.
Flint, Michigan

Economy Glass Corporation
Boston, Massachusetts

Econopane Insulating Glass Company, Inc.
Lewistown, Pennsylvania

Efco Corporation
Monett, Missouri

Ellstrom Manufacturing, Inc.
Seattle, Washington

F. G. M. Glass Distributors, Inc.
Hauppauge, New York

Fentron Industries, Inc.
Seattle, Washington

General Aluminum Corporation
Boise, Idaho

General Aluminum Corporation
Carrollton, Texas

General Glass Corporation
Denver, Colorado

Glastek, Inc.
Indianapolis, Indiana

Havlin-Witkin Sacramento
Sacramento, California

Ideal Company
Waco, Texas

Illinois Valley Glass and Mirror Company
Peoria, Illinois

Independent Insulating Glass Company
Chicago, Illinois

Independent Insulating Glass/Northeast
Chelmsford, Massachusetts

Independent Insulating Glass/Southeast
Atlanta, Georgia

Keller Aluminum Products of California
Merced, California

Keller Aluminum Products of Kentucky
Berea, Kentucky

MANUFACTURING PLANTS

Committed to Certification - Testing in Progress

Keller Aluminum Products of Texas
Woodville, Texas

Keller Aluminum Products of Virginia
Milford, Virginia

Kensington Manufacturing Company
New Kensington, Pennsylvania

Le Vitrage Isolant S. A.
Gaillefontaine, France

Libbey-Owens-Ford Company
Clinton, North Carolina

Libbey-Owens-Ford Company
Mason City, Iowa

Linford Brothers Glass Company
Salt Lake City, Utah

Louisiana-Pacific Corporation
Norton, Ohio

Mercer Industries, Inc.
Portland, Oregon

Milgard Manufacturing, Inc.
Tacoma, Washington

Multipane of New England, Inc.
Waltham, Massachusetts

North American Manufacturing, Inc.
Holliston, Massachusetts

Ohio Plate Glass Company
Monroe, Michigan

PPG Industries, Inc.
Ford City, Pennsylvania

Salem Aluminum Window Company, Inc.
Salem, Oregon

Semling-Menke, Inc.
Merrill, Wisconsin

Solar Seal Corporation
Stoughton, Massachusetts

Solar Seal South, Inc.
Ashland, Virginia

Soule Glass Industries
Bangor, Maine

Southern Wholesale Glass, Inc.
Marietta, Georgia

Sun*Tek Industries, Inc.
Woodburn, Oregon

Thermoglas
Denver, Colorado

Thermoglas
Garland, Texas

Thermoglas
Kansas City, Missouri

Thermoglas
Oklahoma City, Oklahoma

Thermoglas
Omaha, Nebraska

Thermoglas
St. Louis, Missouri

Twin Pane
Livonia, Michigan

Twin Pane
Taylors, South Carolina

Ultralum
Wadsworth, Ohio

Vega Industries Glass Division
Syracuse, New York

Viking Industries, Inc.
Portland, Oregon

Viracon, Inc.
Owatonna, Minnesota

Weather-Shield Glass Division
Medford, Wisconsin

MEETINGS OF THE CERTIFICATION COMMITTEE

The Certification Committee of the Insulating Glass Certification Council met on January 18 and May 9 during 1978.

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.

Direct all requests or any comments to:

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

Telephone 305-558-1480

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 IGCC. This label must be visible after installation in the building.

The IGCC permanent label must be in block capital letters, have no periods, be in continuous string (IGCC run together) and have a minimum height of 0.050 inches.

The IGCC permanent label must contain the IGCC number, Class 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.

The permanent label must be affixed only to sealed insulating glass units of the participant's own manufacture, which has been certified by the manufacturer to IGCC.

The permanent label must not be sold, transferred or otherwise disposed of in any manner other than being affixed to the participant'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 label:

*IGCC-666
Class CBA L78*

IGCC APPROVED LABORATORIES PRESENTLY CONDUCTING TESTS

P-1

Bowser-Morner Testing Laboratories
420 Davis Avenue
Dayton, Ohio 45401
Attention: Mr. Robert J. Wening, P. E.

Telephone 513-253-8805

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

Telephone 607-753-6711

P-2

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

Telephone 717-846-7700

Associated Laboratories, Inc.
1323 Wall Street
Dallas, Texas 75215
Attention: Mr. Theodore P. Pritsker, P. E.

Telephone 214-565-0593

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

Telephone 607-753-6711

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

Telephone 216-944-3665

* * * * *



INSULATING GLASS CERTIFICATION COUNCIL

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:

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 similar 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:

Administrator of IGCC Certification Program
Mr. Robert A. Nance, P. E.
Certification Services Corporation
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 Licensor's registered labels shall be permitted to be affixed to Insulating Glass Units complying with the pertinent requirements of the Program; and
WHEREAS, the Licensor shall contract for the complete administration of the Program and the administrator shall contract for services with independent laboratories which meet the ethical, financial, and business experience standards of the American Council of Independent Laboratories or National Society of Professional Engineers for performance of tests and other administrative duties as are herein provided; and
WHEREAS, the Licensor shall appoint a "Certification Committee" comprised of representatives of Participants and the Public Interest members of the Board of Governors acting as 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 Certi-

fication 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 designation or any other information which may provide clues as to the manufacture of the products, for the purpose of comparing test methods and correlating test methods with field performance, etc.

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

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

A.17 Shall regularly mail to the Administrator, at the same time as

such material is furnished others, copies of its catalogs and other literature excluding price and discount information, which such material 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; the 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 settlements.

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.

IGCC License Agreement

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)

(Title)

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

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

State of)
) SS
County of)

Class B

Class A

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)

U

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 Fund</u>	<u>Administrative Fee</u>	<u>Test 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

Formal applications have been received from the following testing laboratories:

	<u>Class</u>	<u>P-1</u>	<u>P-2</u>
Architectural Testing, Inc. 1360 North George Street York, Pennsylvania 17404 Attention: Mr. Ancel L. Lee, Jr., P. E.	C CB CBA	\$ 390 * 690 * 990 *	\$ 700 900 1100
Associated Laboratories, Inc. 1323 Wall Street Dallas, Texas 75215 Attention: Mr. Theodore P. Pritsker, P. E.	C CB CBA	not available	\$ 550 875 1200
Bowser-Morner Testing Laboratories 420 Davis Avenue Dayton, Ohio 45401 Attention: Mr. Robert J. Wening, P. E.	C CB CBA	\$ 550 650 750	not available
Electrical Testing Laboratories Route 11 Industrial Park Cortland, New York 13045 Attention: Mr. Claude F. Robb	C CB CBA	\$ 450 750 1050	\$ 625 875 1125
<u>Quantity Discount:</u> (3 or more products) (CBA only)	C CB CBA	\$ 450 650 850	\$ 625 825 1025
Institute for Research, Inc. 8330 Westglen Drive Houston, Texas 77063 Attention: Dr. Benjamin Mosier	C CB CBA	\$ 600 * 900 * 1200 *	\$2000 * 3000 * 4000 *
National Certified Testing Laboratory 4590 Eisenhower Avenue Alexandria, Virginia 22304 Attention: Mr. Dale E. Hein, P. E.	C CB CBA	not available	\$ 600 * 800 * 1000 *
Jim Spetz Testing Laboratory 29308 Armadale Avenue Wickliffe, Ohio 44092 Attention: Mr. James L. Spetz	C CB CBA	not available	\$ 575 775 950
Value Engineering Laboratory 2550 Huntington Avenue Alexandria, Virginia 22303 Attention: Mr. H. P. Weinberg	C CB CBA	\$ 750 * 1050 * 1350 *	not available

* Equipment not completed and operating as of August 1, 1978.

PROCEDURAL GUIDE
INSULATING GLASS CERTIFICATION COUNCIL
CERTIFICATION PROGRAM FOR SEALED INSULATING GLASS

FOREWARD

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 participants* 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 Participant?

The following must be accomplished before IGCC can allow a manufacturer to certify an item in this program:

- a) The manufacturer signs two copies of the IGCC license agreement (including notarization of the Affidavit, Appendix A) and sends these to IGCC. IGCC will countersign both copies and return one to the licensee.
- b) The licensee sends to IGCC the twelve month certification fee (including the test laboratory fee).
- c) The Appendix A contains a description of the model which is to be certified.
- d) Within 120 days IGCC visits the manufacturing location and determines to its satisfaction that the sealed insulating glass units being manufactured are in fact truly represented by the declaration of Appendix A as to the model. Once this is established, IGCC asks the manufacturer to produce twelve test specimens. The manufacture of these twelve test specimens is witnessed by IGCC and IGCC verifies that they are produced in accordance with the model declaration.
- e) The licensee is instructed to send these test specimens to an official IGCC testing laboratory where they are tested.
- f) After receipt by IGCC of the test report from the laboratory, the administrator validates that particular model. IGCC sends to the licensee a notice of product certification which includes the IGCC certification number. This number *must* be incorporated into the permanent label to be affixed on each certified sealed insulating glass unit.
- g) 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 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 each licensee's manufacturing location twice per year.

An approved testing laboratory determines compliance of sample specimens with specifications. Tests are made at the laboratory recommended by the licensee and selected by the administrator from the approved list. Results of each test are mailed promptly to the licensee by the administrator.

COMPLIANCE SAFEGUARDS

How is Compliance Assured?

Any certified product found in the course of routine inspection and evaluation not to be in compliance with the model description, is subject, after receipt of notification by telephone and or certified letter, to having certification removed. The licensee is given a thirty day grace period 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, certification *is automatically terminated* at the end of the thirty day period.

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 day 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 certified may be voluntarily withdrawn from the Certification Program by the licensee at any time.

COSTS

What Does the Program Cost?

The licensee pays all projected fees to IGCC on a twelve month basis in advance. A licensee is invoiced for each item that is certified and listed separately in the certified products directory. This invoice would include the fees for future routine evaluation testing.

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 for a period of twelve months.

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 and has an initial duration of twelve months and shall be renewed automatically for successive periods of twelve months each, unless licensor or licensee, at least sixty 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.

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 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 test 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 Directors
Mr. Roger D. O'Shaughnessy, President
Cardinal Insulated Glass Company
6700 Excelsior Boulevard
Minneapolis, Minnesota 55406

Telephone 612-935-1722

IGCC Certification Committee
Mr. Donald J. Vild, Chairman
Libbey-Owens-Ford Company
1701 East Broadway
Toledo, Ohio 43605

Telephone 419-247-4231

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

Telephone 305-558-1480

* * * * *

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.1

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

A.2

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

A.3

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

A.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.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.6

Any change in glass supplier from that tested.

SPACER

A.1

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

A.2

Any change in spacer wall thickness from that tested.

A.3

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

A.4

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

A.5

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

A.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.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.2

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

SEALANT

A.1

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

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.1

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

N.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.3

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

N.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.1

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

SEALANT

N.1

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

N.2

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

N.3

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

N.4

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

N.5

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

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 above always or nevers 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 a prototype tested at an IGCC independent testing laboratory
or
 - b) having a prototype tested at an in house (licensee) facility or
- 3) demonstrate the equivalency of the change to the satisfaction of the certification committee. (Prototype not required.)

Prototypes 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

Twelve specimens will be fabricated for testing purposes.



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

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

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:

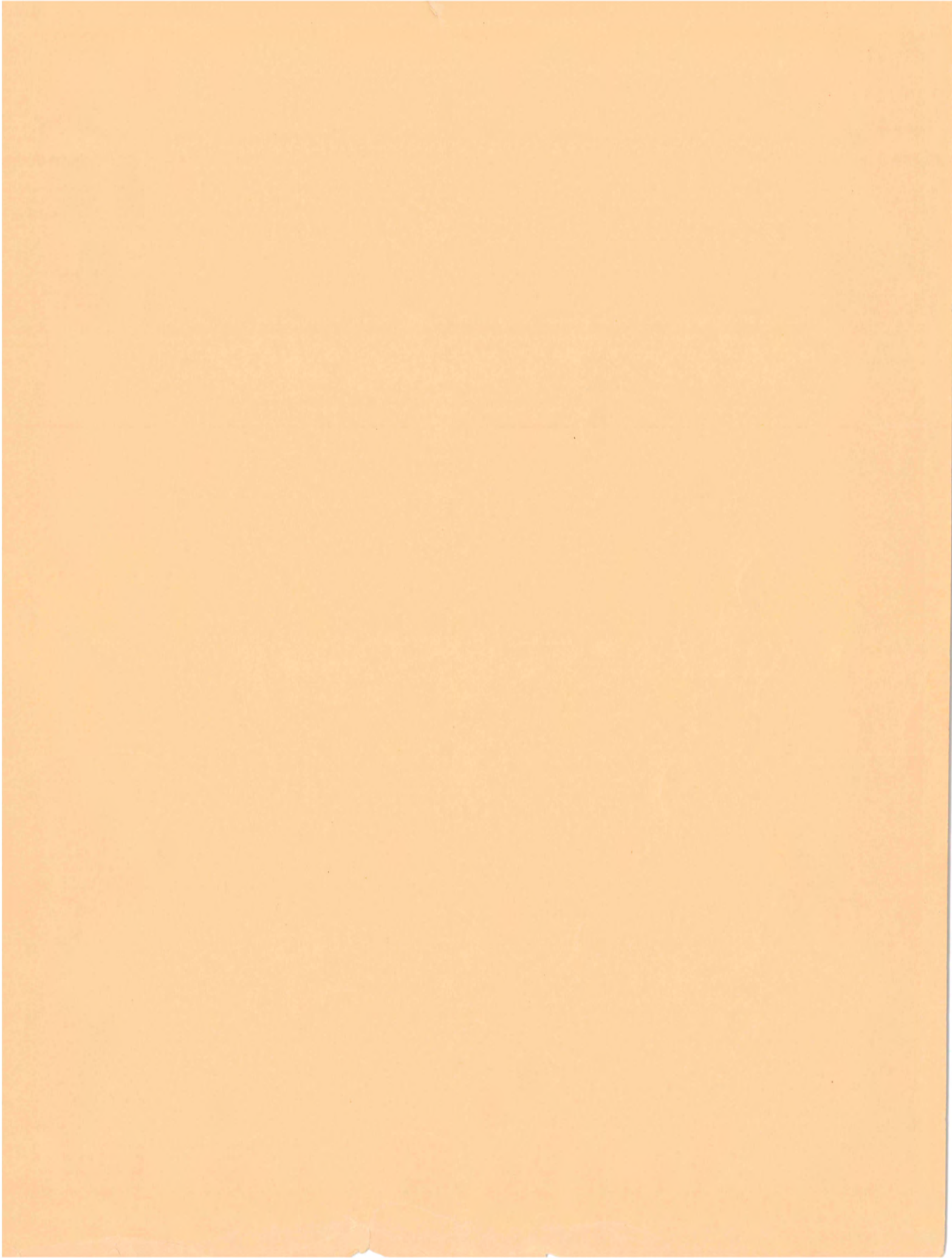
1. Promote public benefit by encouraging maintenance of the highest standards of excellence in the manufacture of insulating glass.
2. To encourage and cooperate in developing standards related to performance characteristics of insulating glass products.
3. To plan, organize, direct, coordinate and sponsor 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.





insulating glass certification council

1640 west 32 place
hiialeah, florida 33012

future editions of this certified products directory
will be sent to individuals making a request on their
corporate letterhead.

to



ADDRESS CORRECTION REQUESTED

THIRD CLASS MAIL

NON-PROFIT ORGANIZATION
U.S. POSTAGE
PAID
HIALEAH, FLORIDA
Permit Number 308