

Do you want to set the standard...or just follow it?

IGMA is recognized internationally as the leading organization on the engineering and manufacturing of insulating glass units.

Newly released publications..

- TM-3100-09, Voluntary Guidelines for the Identification of Visual Obstructions in the Air Space of Insulating Glass Units
- TR-4000-08, 25 Year Field Correlation Study Report (1980—2005)
- TR-1200-83(07), Guidelines for the Commercial IG Dimensional Tolerances
- TB-1601-95(07), Guidelines for the Use of Capillary / Breather Tubes



IGMA, an ISO 9001:2008 accredited organization and registered Standards Development Organization (SDO) was formed on October 2, 2000 as a result of a merger between the Insulating Glass Manufacturers Association of Canada (IGMAC) and the Sealed Insulating Glass Manufacturers Association (SIGMA).

IGMA represents certified insulating glass manufacturers, their suppliers, associates and customers both in the residential and commercial markets across North America and around the world.

IGMA members are very smart people working together and closely with other standards development groups, governments and other organizations to establish North American and international industry standards.

IGMA focuses our financial and staff resources in two major areas of importance to the industry: Certification and Technical Practices.

Since October 2000, IGMA has published 5 major technical manuals addressing pre and post fabrication subject matters in a straight forward, practical approach. In addition, we developed a product certification program for the North American markets, completed 3 research projects with a fourth currently underway.

Strategic Areas

Certification

Our internationally recognized certification and testing programs are backed by over 30 years of industry expertise.

IGCC-IGMA North American Certification Program for the ASTM E 2190 standard

IGMAC Certification Program for the CGSB 12.8 standard

GCIA Certification Program—Gas Content, Initial and After Weathering

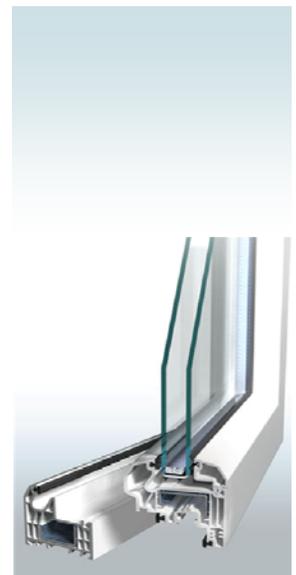
Technical activities

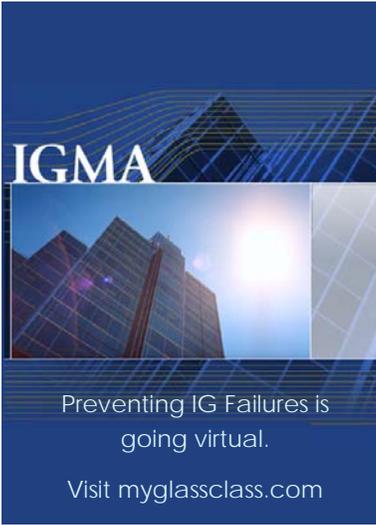
Standards development, leading edge research, harmonization of standards, voluntary guidelines, technical manuals, reports and bulletins, best practices and online educational programs.

Our Technical Presentation Library has over 75 PowerPoint presentation covering components, compatibility, manufacturing, new technologies and many, many other topics of interest to the industry.

Technical working groups

- IGU Manufacturing Quality Procedures
- Design Considerations for Multiple Airspace IGU's
- Development of a Standardized Test for Gas Permeability
- Glazing Guidelines
- Thermal Stress
- Testing Curved / Bent Glass





Certification & Education

The Certification & Education Committee is responsible for all IGMA educational programs including Preventing IG Failures.

The group has developed a PowerPoint presentation which will provide an overview on why and how to implement and maintain a quality control system. This presentation is based on the technical manual TM-4000—IG Manufacturing

Quality Procedures. And is close to completion. Sections on Training, Process Control and Field Service will be submitted and reviewed at the September 2010 technical meetings.

The document revision of TM-4000-02(07) which will result in two separate documents is under the responsibility of the Technical Services Committee and is an online task group.

At the March 2010 meeting it was decided to reinstate the IGMAC Certification Procedures Committee so that program participants are involved in developing the program requirements. This committee will meet online.

Matters relating to equivalency and waivers will be reviewed by the IGMA Technical Policy Committee.

"I found the Preventing IG Failures seminar to be helpful & educational. I would like to see the continuation of this type of service to the manufacturing field. As a manufacturer I would attend more of these seminars."

Technical Services Committee

Participation on the Technical Services Committee is by invitation from the IGMA Board of Directors and all committee members must have technical expertise in their designation position.

The TSC is the standards development arm of IGMA and has responsibility for all Task Groups, technical publications and technical support to the IG certification programs.

The Committee includes representation from all industry sectors; manufacturers, equipment manufacturers, component suppliers, testing, inspection, consulting and government and is equally balanced with representation from Canada and the U.S.

Based on feedback from the general membership, this committee is responsible for setting IGMA's code positions.



The Technical Services Committee defines what IGMA is all about.

Glazing Guidelines

Unlike other task groups, the Glazing Guidelines work group is a permanent task group under the IGMA technical structure.

This group is responsible for developing and maintaining best practices in glazing for both residential and commercial products.

Current activities include a review of the Setting Block height and placement for residential products especially when the window includes a triple-glazed IGU.

The group is developing guidelines for use of capillary tubes and will include manufacturing considera-

tions. TM-3000-90(04), North America Glazing Guidelines for Sealed Insulating Glass Units for Commercial and Residential Use is included in the IGMA technical binder. Discounts are available to members for bulk orders.

Thermal Stress

This group is developing guidelines for thermal stress consideration for annealed insulating glass units which will include a number of conditions classified as low, medium and high risk. Conditions that have been identified are glass type, solar absorption and radiation, heat traps (outdoor field conditions—outdoor shading, blind pockets and glazing stop color), heat

traps for indoor conditions (position of HVAC, interior shading devices), spandrel glazing, framing system type (wood aluminum / steel, concrete), # of glazing lites (doubles, triples, quads), elevation, on site storage conditions, post installation films, altitude, and design winter temperature. Once the table grid has been completed for these conditions, a second

grid will be developed for combination conditions.

The introductory section has been written and includes a detailed definition and description of thermal stress including why it happens and how to identify it. This document will compliment the Glass Breakage webinar under the Preventing IG Failures education program.



Every meeting includes technical presentations on new technologies, fabrication techniques and a host of other topics of interest to the IG industry. Work assignments have been posted to the Members Only section of the IGMA website.

Design Considerations Multiple Airspace IGU's

As Energy Star™ requirements become more and more stringent, triple and quad glazed insulating glass units will become the norm in many of the climatic zones.

This task group convened for the first time in 2009 and work is well underway on identifying conditions that should be addressed when

designing and fabricating triple and quad glazed insulating glass units.

A format for the document has been approved which will be similar to the visual quality guidelines released in 2009. Text has been drafted for gas content, coatings and exterior condensation. Outstanding topics of thermal stress,

wind load, stresses on seal system, fabrication techniques, altitude limits, glazing considerations (eg. Misalignment), non structural intermediate layers (eg. suspended coated film), glass thickness (asymmetric constructions - glass and airspace), and structural glazing applications have been assigned to task group members.

New manufacturer and supplier members receive a copy of the IGMA technical binder and complimentary copies of each new publication

Research

Completed research projects:
 Gas Concentration of IGUs by Gas Chromatography vs Spark Emission Spectrography
 25 Year Field Correlation Study: 1980-2005

Development of a Test Protocol for Argon Permeability through Insulating Glass Units

Currently in Stage 1, Phase 2 of the research project to develop a standardized test specification for gas permeability, the test cell has been re-designed to permit

sampling of 5 IGU samples at a time and significantly reduce the time to obtain data results. The new setup will also accommodate Phase 3, which will mechanically stress the units to simulate field conditions. Prior to sampling, the system is purged with medical

Grade Helium using a helium ionization detector. Current issue is getting a clean baseline so testing of samples has been delayed by 4 months. At the conclusion of this phase, the IGMA Research Fund will be depleted and IGMA will be soliciting outside funding.



Test Cell for Phase 1 of the Gas Permeability Research Project

Tangible Benefits

- Complimentary copy of the IGMA Technical Binder to manufacturer and supplier members, a value of \$575 USD;
- An exclusive listing in the online membership directory including your company profile and dynamic link to your website;
- One complimentary copy of each new technical publication such as the Insulating Glass Manufacturing Quality Procedure Manual and the Preventing Insulating Glass Failures Manual including periodic updates;
- Preferred pricing on existing technical publications and educational seminars such as the Preventing Insulating Glass Failures;
- Networking with industry peers and access to technical information on the latest products;
- Participation in the development of standards affecting the insulating glass industry;
- Access to the latest research—IGMA 25 Year Field Correlation Study, Gas Permeability, Non-invasive Measurement of Gas Fill in Insulating Glass Units;
- Complimentary technical advisory service provided by IGMA Technical Consultant, Bill Lingnell, PE, North America's leading forensic expert on glass and insulating glass;
- Access to the IGMA Technical Presentation Library

We're on the Web!
www.igmaonline.org

IGMA is an ISO 9001:2008 organization and the North American association of certified insulating glass manufacturers, suppliers of component material and other industry-related professionals dedicated to upgrading product performance in both the residential and commercial sectors by promoting awareness of technological developments in the industry.

Whether you are planning to streamline your manufacturing operations or develop business strategies, IGMA can provide valuable information to assist organizations to improve business outcomes.

IGMA membership is an investment in your future!.

In the US:
 365-27N Wacker Drive, Chicago, IL. 60606-2800

In Canada:
 300-1500 Bank Street, Ottawa, ON. K1H 1B8

Phone: 613-233-1510
 Fax: 613-482-9436
 E-mail: mwebb@igmaonline.org

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 expertise

