

<u>Category</u>	<u>IGMAC</u>	<u>IGMA</u>
<u>GENERAL</u>		
Program Sponsor	IGMA	IGMA
Program Administrator	IGMA	IGCC / AMS
Governing Standard	CGSB 12.8	ASTM E 2190
Jurisdictions	Canada	North America
<u>FACILITY AUDITS</u>		
Re-certification requirements	every 4 years	1 year for HUD compliant products 2 years for all other products
# of test specimens	20 units	12 units for double-glazed 14 for triple-glazed Note: gas fill certification requires an additional 10 units to be fabricated
Test specimen outside dimensions	250 X 500 mm 14 " X 20"	250 X 500 mm 14 " X 20"
Glass thickness requirements	4 mm This is the only glass thickness permitted under CGSB 12.8. All other glass thicknesses result in an automatic rejection at the testing laboratory	4 mm, 5 mm, 6 mm (with specific cavity widths)
Airspace width (cavity) requirements	12 mm for double-glazed 6 mm for triple-glazed	<u>Double-glazed units:</u> 4 mm glass - 12 mm airspace 5 mm glass - 6 mm airspace 6 mm glass - 12 mm airspace <u>Triple-glazed units:</u> 4 mm glass - 6 mm airspace
Muntins or grills	not required for testing	Required test specimens must be fully representative of manufacturer's standard product units with regard to design and construction
Low E coating	required for initial gas fill certification not required for conventional (air-filled) certification	Required test specimens must be fully representative of manufacturer's standard product units with regard to design and construction
Initial Gas Fill	90% average over 10 units All 20 units must be gas-filled and have Low E coating	90% average over 10 units 1 production unit (manufacturer to indicate % gas fill in unit) All test specimens units must be gas-filled and have Low E coating
Final Gas Fill requirements	80% average over 10 units selected for initial gas content All 20 units must be gas-filled and have Low e coating	80% average over 6 (cycled) of the 10 units selected for initial gas content All test specimens must be gas-filled and have Low e coating
<u>QUALITY CONTROL REQUIREMENTS</u>		
Minimum program requirements	QC-1a, Primary sealant QC-1b, Two part sealant QC-1c, Hot melt sealant QC-1d, Organic spacer adhesion and desiccant activity QC-2, Desiccant QC-3, Spacer QC-4, Glass (cut sizes) QC-5, Finished Product Inspection	TM-4000-02(07), IGMA Insulating Glass Manufacturing Quality Procedures manual or equivalent (ie ISO 9000)

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<u>COMPLIANCE AUDITS</u>		
Notification	Compliance audits are unannounced	Compliance audits are unannounced
Annual requirement	2 unannounced (except in the re-certification year in which case 1 on the compliance audits is replaced with a facility audit)	2 unannounced (except in the re-certification year in which case 1 on the compliance audits is replaced with a facility audit)
Inspection criteria	Auditors inspect production to ensure: only certified production units are identified as IGMAC; certified production units are in conformance with original construction; verification of quality control records	Auditors inspect production to ensure: only certified production units are identified as IGMA; certified production units are in conformance with original construction; verification of quality control records
<u>LABORATORY TESTING</u>		
Approvals	ISO 17025	ISO 17025
Shipments of Test Specimens	Test specimens must be received before 90 days accompanied by a copy of the completed facility audit report	Test specimens must be received before 90 days accompanied by a copy of the completed facility audit report
Curing of test specimens	Contact your sealant supplier for specific requirements this is the responsibility of the IG manufacturer not the laboratory	Contact your sealant supplier for specific requirements this is the responsibility of the IG manufacturer not the laboratory
Testing requirements	Weather cycling - 4 test specimens High humidity - 8 test specimens Volatile fog test - 2 test specimens An information specification sheet is available from IGMA	Weather cycling - all test specimens High humidity (2 separate cycles) - all test specimens Volatile fog test - 2 test specimens An information specification sheet is available from IGMA
<u>PROGRAM COMPLIANCE REQUIREMENTS</u>		
Notices of Non-compliance	Issued after audit report received by Administrator; 90 day period to correct area of non-compliance; Proof of corrective action must be provided to the Administrator	Issued after audit report received by Administrator; 90 day period to correct area of non-compliance; Proof of corrective action must be provided to the Administrator
Grounds for de-certification	1. Failure to provide a "pass" test report within 6 months of the expiration of the re-certification date 2. Use of IGMAC certification mark on a non-certified product; 3. Use of IGMAC certification mark on a product manufactured in a different location; 4. Failure to use the IGMAC certification mark on a certified product; 5. Non-payment of certification program fees; 6. Failure to maintain adequate quality control records.	1. Failure to provide a "pass" test report within 6 months of the expiration of the re-certification date 2. Use of IGMA certification mark on a non-certified product; 3. Use of IGMA certification mark on a product manufactured in a different location; 4. Failure to use the IGMA certification mark on a certified product; 5. Non-payment of certification program fees; 6. Failure to maintain adequate quality control records.
Product Identification	1. Company name (or approved abbreviation); 2. IGMAC certification mark (clear and legible); 3. Location of product facility (city, town etc.); 4. Year of manufacture.	1. Company name (or approved abbreviation); 2. IGMA certification mark (clear and legible); 3. Location of product facility (city, town etc.); 4. Year of manufacture.