

TEST RESULTS YOU CAN BUILD ON molimo.com



MolimoTM
Architectural Product Testing

Insulating Glass Testing



Insulating Glass **CERTIFICATION PROCESS**

- **Certification set fabricated** at manufacturing plant
- **4-week cure and ship** to Molimo
- **Units received at Molimo** and inspected

BASELINE UNITS		INTERNAL COMPONENTS
Durability TESTING	Volatile Fog TESTING	Volatile Fog TESTING
Gas concentration and frost point analyses 2-weeks High-humidity exposure 140°F, 95+%RH Gas concentration and frost point analyses 9-weeks Weather cycling 252 cycles of 140°F to -20°F Gas concentration and frost point analyses 4-weeks High-humidity exposure 140°F, 95+%RH Gas concentration and frost point analyses	1-week Volatile fog test chamber Post-exposure inspection 1-7 days	1-week Volatile fog test chamber Post-exposure inspection 1-7 days
BASELINE REPORT		INTERNAL COMPONENTS REPORT

Test Methods

- ASTM E2190
- ASTM E2189
- ASTM E2188
- ASTM E546
- ASTM E576
- ASTM E2649



AAMA Accredited Lab, an FGIA Program



Insulating Glass Testing

Have you ever wondered how test labs evaluate your certification units? The ASTM E2190 testing program is the industry standard for IG certification. The 16-week evaluation tests for seal durability and resistance to volatile fogging.

We select six units for seal durability testing. Our process begins with two weeks of high humidity exposure at 140°F and nearly 100% RH. Next, the units undergo nine weeks of weather cycling. We simulate environmental conditions via UV exposure, humidity over 90% RH, and temperature cycles from 140°F to -20°F. Finally, the units are again subject to high humidity exposure, but for four weeks. We measure frost point and gas concentration as applicable between each exposure. Furthermore, we test additional units for resistance to fogging by exposing them to heat and light. This test verifies that materials and processes do not introduce volatiles into the cavity that may result in aesthetic issues, and we use the same evaluation to certify internal components.

Call Molimo today with any questions about the certification process, and we can discuss your next IG test!

Molimo is a company built on experience. Together we exceed 350 years of expertise in the building products testing industry. We prioritize accuracy, speed, and integrity. **Test Results You Can Build On**

More **Molimo** Testing Capabilities

- AIR, WATER, STRUCTURAL TESTING
- BLOWER DOOR TESTING
- DECK & HANDRAIL TESTING
- FIELD TESTING
- IMPACT & CYCLING TESTING
- INSULATING GLASS TESTING
- MATERIAL & COMPONENT TESTING
- PRE-CONSTRUCTION MOCK-UP TESTING
- SAFETY GLAZING TESTING
- THERMAL SIMULATIONS



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