



Air, Water, Structural – Field Testing



Field Testing Fast Facts

- Field test teams can be dispatched from any ATI location on both coasts or the Midwest.
- All technicians are fully trained and equipped with the best equipment available.
- Fully equipped test vans include our portable “Lab Pack” with centrifugal blower, vacuum pump, rotameters (airflow rate measurement), and pressure measurement gauges.
- Data is compiled on laptop computers with wireless communication to our corporate headquarters for quick report turn around.

Value

For ultimate quality assurance, site-installed fenestration and curtain-wall products must be field tested for air infiltration, water leakage, and structural performance. In accord with an architect’s specifications. Our thorough understanding of key performance variables assures architects, building owners, consultants, glazing installers, and contractors that they are meeting contract obligations during new construction or renovation and yields valuable insights to help resolve problems.



ATI has performed field testing on structures of all sizes and configurations. No project is too big or small.

ATI routinely performs field tests of:

- Windows
- Doors
- Storefronts
- Curtain walls
- Sloped glazing systems
- Skylights

As well as specialty tests for:

- Anchor load
- Sealant adhesion
- Glass Properties (bow, warp, roll wave)
- Insulating glass dew point
- Membrane roof systems

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Innovations

ATI is unique in our ability to deploy technicians from ten strategic locations around the country. That makes it easy and cost effective for us to reach any job site within 24 hours. To devise the best chamber test arrangement, our work begins before we arrive at your job site. We carefully communicate with you to evaluate architectural details, shop drawings and preliminary photographs to ensure the appropriate test procedures are applied. We take care of test equipment, equipment calibration, staging, access equipment and scaffolding (if required), to ensure work proceeds smoothly.

If required for specific projects, ATI will modify standard procedures to test in accordance with customer specifications. ATI also has a Forensic Services department to perform investigative testing for identification of air or water leakage paths on existing building envelopes.

Insights and Possibilities

Air and water tests are typically performed on building components and facades, such as window assemblies, metal panel systems, storefronts, curtain walls, EIFS walls, stone facades, roofs, and skylights. Often, these constructions are also tested for structural integrity to confirm that the as-built specimen complies with the design wind-pressure requirements. Testing may be performed at various stages of construction; however it is desirable to test prior to the installation of finished interior wall materials.

Typical testing methods:

- AAMA 501.1
- AAMA 501.2
- AAMA 502
- AAMA 503
- ASTM E 783
- ASTM E 1105
- ASTM E 330
- Condensation Evaluation
- Anchor Pull-out
- Frost Point Analysis

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For more information on the value we can bring to your next project, visit www.archtest.com

The POWER In Performance Testing

