



Engineering Services



Engineering Services Fast Facts

- Employs full-time engineers licensed in over 15 states with contracted engineers licensed in all 50 states.
- Provides more stamped Dade County and Florida State test reports than nearly all other labs combined.
- Offers the integrated support of many degreed engineers, plus CAD, laboratory, and materials science experts.
- Helps design custom test procedures for specific industry or application requirements.

Value

Findings on the performance of fenestration and building materials are valuable only if they are properly obtained, analyzed, and applied. That's why ATI's Professional Engineering (P.E.) services are relevant to all kinds of customer requirements. We employ P.E.s with engineers licensed in nearly a dozen States (including Florida and New York), supported by many degreed engineers and CAD, laboratory, and materials-science experts. Their expertise provides the assurance that your actions are based on interpretations, reports, drawings, inspections, or certifications that are signed and sealed by a Professional Engineer.



Architectural Testing's Professional Engineers have become one of the first choices among manufacturers and architects to analyze anchors and installations for the blast mitigation industry.

Professional Engineering Services include:

Fenestration-related services

- Test protocol interpretation
- Results interpretation
- Building code and standards interpretation

Supervision and Validation of Testing

- Dade County testing
- Field testing
- Blast testing

Reviewing and certifying test reports

- Reviewing and validating data from ATI testing or another source
- Preparing reports recognized by HUD, Dade County, Florida Product Approval Program, and others

Engineering Services



RECEPTOR TO EXPANDER

$$\begin{aligned} \epsilon_1 &= 0.043 \\ \epsilon_2 &= 0.125 \\ F_{T1} &= 22,000 \text{ lbs} \\ D_1 &= 0.190" \\ P_{N5} &= 2 F_{T1} D_1 \\ &= (2)(22,000)(0.190) \end{aligned}$$



Customer-requested, job-specific services

- Installation analyses and drawings
- Comparative analyses for downsized or similar constructions
- Structural analyses for design wind loads and glazing
- Component analysis-
- Site inspection to ensure proper installation

Innovations

In response to customer needs, ATI continues to expand the role of our Professional Engineering services in ways our customers find beneficial. For example in fenestration testing, we devised a non-standard procedure to help one customer evaluate a new anchor designed to withstand a 4000-pound load. As a customer-requested service, we helped the timber industry establish the design requirements for a new timber splice, then provided engineer-supervised testing to ensure the product met the specifications. For any new product, our engineering insights can provide the “road map” you need to achieve product certification.

Insights and Possibilities

When testing at ATI, we provide in-depth analysis of processes or products as an extension of your manufacturing or design team. To facilitate collaboration, our clients can take advantage of our state-of-the-art meeting facilities, including wireless Internet connections. Our in-house machine shop and tool crib make it possible to fabricate parts while you remain on premises.

With ATI, it's easy to find the engineering expertise you need to meet any challenge. We have unmatched proficiency gained from performing over 700 test methods implemented in accordance with ASTM, AAMA, ANSI, military, and international standards, including ICC. And we maintain industry and professional affiliations with WDMA, NFRC, BETEC, FMA, ASCE, and ASME.

Typical services :

Blast Installation Analysis
Blast Anchor Analysis
Dade County Testing Supervision
Structural Analysis
Comparative Analysis
Code Compliance Evaluations
Much, much, more...

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

The POWER In Performance Testing

