The POWER in Performance Testing™
Where we've been...

Architectural Testing’s roots reach back to 1970 when I started a design/engineering company to develop new and innovative architectural products for residential and commercial applications. I also assembled a well-equipped machine shop operated by highly qualified machinists, toolmakers, and other specialists to produce the unique tools and equipment needed to manufacture these newly designed architectural products.

But each new product required research and development tests to validate the new design concepts. After improving the final design detail through testing, the new product was ready for validation by certification tests to industry standards.

My business experience provided me with the needed confidence, and successful product designs affirmed by creativity. With employee support and clients’ encouragement, Architectural Testing made its entrée into the independent testing laboratory business for fenestration products.

Accreditation by national agencies provided immediate credibility which spawned support and encouragement from an already existing client base. I responded by investing all available cash and profits into expanding the testing services whenever I concluded that an opportunity had a high probability of success.

This responsiveness and reinvestment policy has rewarded us well; without formal sales and marketing efforts, we have doubled our testing business every five years since 1975. I value our talented and committed staff that provides the service which encourages our customers to return and to share their satisfaction with others in the industry.

Sincerely,

Henry Taylor, President
Architectural Testing, Inc.
PRODUCT TESTING:
A full set of services

Building products are STRESSED by natural elements—wind, rain, cold, heat, sunlight—and by man-made phenomena—noise, fire, and blast. Architectural Testing’s experts perform STANDARDS-based and CUSTOM tests to measure fenestration and product PERFORMANCE.

**Performance, pre-qualification, and research testing**—this wide range of product test categories is offered by Architectural Testing to measure performance in normal service and in unusual conditions. Our findings are critical to manufacturers, contractors, and owners who need them to compare product performance, to minimize product liability, to obtain certification, or to predict service life.

**All types of performance criteria are covered to provide a more comprehensive understanding, more conveniently.**

Our product testing disciplines include:
- ASTM
- AAMA
- ANSI
- NFRC
- UL
- VSI
- IGCC
- SGCC
- WDMA

and other recognized procedures. If your product is not covered by a known standard or program, we can develop a custom protocol to meet your specific needs. Architectural Testing has devised standard procedures in conjunction with ASTM, AAMA, NFRC, DASMA, WDMA and many other standard writing bodies—and we can do the same for you.

**Measurements can be made on practically every performance parameter**—Air-water-structural, thermal, acoustical, solar heat gain, light transmittance, durability, impact, heat-flow, fire, and more. Sourcing your testing services with a single provider significantly cuts the cost per project and speeds your products to market.

**Advanced facilities, nationally recognized instruments, plus fully equipped mobile testing fleet**—Architectural Testing offers more insight and innovation. For example, we developed the world’s largest solar calorimeter to evaluate 7’ x 7’ specimens. Our environmental chamber can accommodate multiple specimens or one large, 16’ wide x 9’ high product. And our acoustic chamber can evaluate specimens as large as 14’ x 10’ x 12” in movable test frames. We offer the industry’s most comprehensive product-testing capabilities to meet particular project needs. If you can think it, we can do it!
Acoustic Laboratory Supervisor Todd Kister prepares for a sound transmission loss test in Architectural Testing's state-of-the-art acoustic testing center.
MATERIAL AND COMPONENT TESTING: No detail too small

How components and building materials perform when under STRESS, over TIME, and during EXPOSURE can all be determined by laboratory evaluations. As the leading building-material testing experts, we employ the latest technology and over 1,200 ASTM test methods to obtain ACCURATE data and USEFUL insights.

Small-scale durability, environmental, and fire testing—these three terms broadly describe the kinds of tests we use to obtain material and component performance data. This information is essential to manufacturers, contractors, designers, and owners because it provides a basis for selecting the appropriate material or determining pass/fail or classification ratings.

For all types of fenestration products and building materials, we’ve got you covered. Test specimens may be natural or man-made materials or passive or active components in doors and windows. Of course, the product composition and material specifications dictate the specific test procedures mandated by the certifying or regulatory body. From Metro-Dade County to the European Union to the People’s Republic of China, we perform tests in accordance to an extensive list of recognized programs, agents, and administrators.

Test procedures are employed to measure virtually any material property—stress, flex, compression, tensile strength, stability, friction, modulus of rupture, viscosity, hardness, gloss, brittleness, dimensional change under temperature, resistance to fire and chemicals, plus accelerated weathering under UV, salt spray, alkali and xenon arc.

State-of-the-art, environmentally controlled dedicated materials laboratory, plus advanced mobile field equipment—these capabilities mean Architectural Testing can do the job whenever and wherever you need it done. We employ the industry’s most extensive array of test equipment, including thermal conditioning ovens, xenon arc lamps for solar spectrum exposure, calorimeters, salt-fog and high humidity chambers, abrasion and drop-dart testers, and much more. That’s why we can offer the widest range of material and component testing services to meet your specific needs.
Architectural Testing’s newest lab where Todd Burroughs and his staff conduct materials/component tests in strictly controlled environmental conditions.
PROJECT, CURTAIN WALL, MOCK-UP TESTING: No job too large or complex

Building envelopes are IMPACTED by powerful forces—hurricanes, snow and ice storms, earthquakes, temperature extremes, and even bomb blasts. Architectural Testing’s WORLD-CLASS capabilities can measure the performance of the largest and most COMPLEX structures to provide a higher level of QUALITY assurance.

Extensive laboratory capacity, full-scale test chambers, massive exterior mock-up walls, and expert job-site inspections—Architectural Testing’s industry-leading capabilities can measure the performance of the largest curtain walls, mock-ups, facades, and masonry systems. These findings are used to validate the design, workmanship, and material selection for certification or the approval of architects, consultants, contractors, and building owners.

From the laboratory to the job site, we can take your project from start to finish. Tests are performed according to AAMA, ASTM ANSI, CSA, CPSC, architectural project specifications, and other standards and programs—or we can develop custom protocols for specific customer needs. We can obtain data on wind resistance, air infiltration, static and dynamic water resistance, condensation, structural and snow loading, thermal cycling and transmittance, fire, security, blast, acoustics, vertical and lateral (seismic) movement, sealant and gasket durability, and more. Additionally, air and water inspections and testing can be performed on the job site to provide quality assurance per specifications.

Size is never a restriction at Architectural Testing. That’s because we can accommodate mock-ups up to 120 feet wide and 60 feet high on the world’s largest curtain-wall test site. Additionally, ten indoor test chambers can each stage mock-ups up to 3 stories tall.

Facilities conveniently located on the east and west coasts also provide the convenience of a tool shop to expedite construction or modification. Plus, a state-of-the-art office lounge environment is available to keep you comfortable and connected throughout the duration of your project.

Yes... we can!
One of four Pratt & Whitney 2800 series radial engines in Architectural Testing’s equipment arsenal. These engines generate over 2000 hp and can generate wind speeds in excess of 150 MPH.
ENGINEERING SERVICES:
Complete capabilities

Information on products and materials must be properly OBTAINED, analyzed, and applied to be truly VALUABLE. Architectural Testing’s Engineering Services provide interpretations, reports, drawings, inspections, or certifications with a Professional Engineer’s seal to give that ASSURANCE.

Comply with specific state codes and insurance requirements or validate drawings and test results with our professional engineering services. For test protocol interpretation: our industry affiliations with certification bodies ensure that test procedures are properly interpreted and planned to yield valid results. Results interpretation: as an independent party, we can appoint an engineer to review test data to determine if a product meets specifications or codes. Building code and standards interpretation: we can determine the applicable code or standard, test protocol, or certification process, and then serve as your compliance advocate.

Supervision & Validation of Testing. We provide professional engineering oversight and PE seals of testing. Our staff can also participate in field and in-plant testing to minimize the need to hire local engineers. Finally, our experience in developing AAMA and ASTM test standards for blast hazard mitigation of fenestration systems guarantees our ability to provide competent guidance for these new procedures.

Reviewing and certifying test reports. Preparing reports to be recognized by HUD, Dade County, Texas Department of Insurance (TDI), Florida Product Approval Program, and many others.

Customer and job-specific services are also available. We can provide installation analyses and drawings, comparative analyses for downsized or similar contructions, structural analyses for design wind loads and glazing, and component analysis prior to use.
Director - Engineering Services, Joe Reed, PE, performs a project analysis with Senior Project Engineers, John Runkle, PE, and Michael Stremmel, PE.
CERTIFICATION SERVICES: Products, processes, and people

Architectural Testing brings our LEADERSHIP in performance testing to a wide RANGE of certification services—VERIFYING compliance to standards, validating CONFORMITY to codes, training personnel to established procedures, thereby helping our customers gain ACCEPTANCE of their products and services.

Product certification marks and certification services play critical roles in the selection process of buyers, contractors, specifiers, distributors, regulators, and others who make important decisions about a product’s or service’s integrity and acceptability.

The Architectural Testing product certification mark provides clear evidence that a product has undergone third-party testing and has qualified for certification under one of our nationally recognized programs. It is only used under license from Architectural Testing— independent from the manufacturer— on products that conform to national, international, or other applicable standards. To qualify, manufacturers submit products for independent evaluation under controlled conditions. Only products that pass all required tests and are manufactured under an approved quality control program are licensed to bear the certification mark.

Architectural Testing certification marks are applicable for parameters of performance that can apply to many different products, such as acoustic and blast performance, as well as within specific product categories such as deck and hand-rail systems, roofing materials, siding and cladding, insect screens, and curtain wall systems.

Architectural Testing Certification Services also offers Quality Assurance (QA) programs for manufacturers of a wide range of products. In addition, Architectural Testing will assist manufacturers in the development of in-house quality control programs to ensure consistent quality production for code compliance and provide training for production workers and product installers. We can also develop custom certification programs that meet the needs of specific markets, industries and jurisdictions.

Fast Facts

Architectural Testing...

... provides significant benefits: reduces time to market, reduces exposure to liability, distinguishes product quality and consistency.

... meets state, national, and international accreditations, including International Accreditation Services (IAS), the International Organization for Standardization (ISO) and American National Standards Institute (ANSI).

... administers the InstallationMasters™ and developed the Installer Certification Program for the Vinyl Siding Institute.

... brings forth over 35 years of testing and code compliance experience to provide our customers the best quality assurance and certification programs.

Yes... we can!
Vice President - Certification Services, David Moyer, demonstrating a plant inspection at one of the over 150 plants Architectural Testing’s Quality Assurance and Certification programs provide service for.
Now and in the future...

Architectural Testing is nationally recognized for the leadership, dedication, and professionalism of its Executive Staff. Their diversity of knowledge, experience, and education is complimented by an absolute and mutual respect for each other’s contributions to the company’s success; this cultivates further support by our dedicated engineers, technicians, skilled laborers, and staff. This rich mixture of talent is recognized by our clients as the catalyst which causes them to take further advantage of our services.

Our employees include over fifty college graduates with degrees in a wide variety of disciplines – education, marketing, business administration, chemistry, information technology, etc. Importantly, half of these degrees are Bachelor of Science in Engineering in mechanical, structural, civil, industrial, and aerospace disciplines. Several employees have a Masters degree as well, and our engineers collectively possess Professional Engineer licenses in a dozen states. This professionalism and experience provides an invaluable service to help our customers meet the ever-increasing demands set by specifications, codes, and consumers.

Our future will see a significant expansion of the certification and training services which are fast becoming an industry benchmark. We continue to train thousands of installers of windows, doors, and siding through the InstallationMasters and VSI Installer Certification programs. Each year we conduct several hundred plant inspections to affirm that a manufacturer’s products comply with certification and quality assurance procedures.

Our new certification program for blast mitigation products will fulfill one of the most recent industry demands. Architectural Testing is currently expanding our Forensics Department to help our clients defend against frivolous lawsuits and to properly address performance concerns. We are already preparing world-class facilities for blast, fire, and ballistics tests, and we continue to expand on our blast engineering services.

As in the past, we will continue in the future to answer your most challenging requests as always: “Yes... we can!”

Executive Staff of Architectural Testing
“Thanks to the Architectural Testing team for making our visit to your facility a pleasurable experience.”

Joe Schultheis
VISTAWALL

“Thanks for an outstanding job and for all the super service!”

Dave Olson
FORTIFIBER

“I want to express my appreciation to Architectural Testing and everyone that was involved in our case! Without your team, we couldn’t have done it.”

Tony Owens
THE FOUNDRY

“It is always a pleasure working with a professional group that sincerely cares about our needs as a manufacturer. I thank your entire staff for helping make us a better manufacturer.”

Andy Brill
MI HOME PRODUCTS

“I want to recognize Architectural Testing for outstanding performance during our recent wall testing. It is rare to work with a person who has both the strong skills and capability matched with such a fantastic “can-do” attitude.”

Alan Learned
DUPONT

“Architectural Testing did an awesome job on this one. Thanks for being there.”

Debbie Purdom
POZZI/JELD-WEN

“Your employees were very helpful and kept us up-to-date and made the process very easy. I appreciate all the help and assistance that your employees give us; we couldn’t ask for better service and testing.”

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Architectural Testing
YES... WE CAN!
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