



SERVICE PROFILE

Building Enclosures



- Laboratory and field durability and performance testing
- Investigation and remediation of uncontrolled rainwater penetration
- Evaluation of thermal performance and condensation potential
- Condition assessment
- Design reviews and construction-related services for new structures
- Structural analysis, nonlinear finite element analysis, and repair design
- Prepurchase/presale evaluation and condition assessment
- Repair, rehabilitation, and re-clad/over-clad design for existing structures
- Peer review services and construction monitoring
- Roofing and Waterproofing

Building owners, managers, contractors, and architects turn to WJE when they need a firm that fully understands the aesthetic and functional performance requirements for their building enclosure systems. As a leading provider of consulting services for a variety of enclosure engineering issues, we have extensive expertise and resources to provide comprehensive, practical, and innovative solutions for new and existing facade assemblies and other building enclosure systems.

We have decades of industry-leading research and testing experience with building enclosure materials and systems of all ages, material compositions, and construction types. Our engineers and architects draw on extensive in-house laboratory capabilities in WJE's Janney Technical Center as well as our company's interdisciplinary knowledge to develop comprehensive, cost-effective, and technically sound repair and restoration strategies for facade, roofing, and waterproofing systems—routinely tailoring our services to meet the specific needs of a project or client.

Our services range from the design and construction of water-tight, energy-efficient, and high-performance building enclosures to the investigation of existing facade and roof assemblies. WJE experts combine state-of-the-art testing equipment with decades of hands-on experience in the field to diagnose and solve problems in both contemporary and historic structures, helping clients achieve a successful overall building performance without compromising aesthetic features.



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REPRESENTATIVE PROJECTS

- 135 Bishopsgate - London, United Kingdom: Building enclosure condition assessment and restoration
- Hurricane Harvey Disaster Recovery - Rockport and Port Aransas, TX: Structural, building envelope, and roofing assessments and repair designs
- Lyric Theatre - New York, NY: Facade maintenance and stabilization
- Milwaukee Federal Building and U.S. Courthouse - Milwaukee, WI: Exterior granite masonry restoration
- Mount Terrace Condominiums - Honolulu, HI: Window replacement, concrete repair, and exterior wall coating
- Norton Museum of Art - West Palm Beach, FL: Design review of building enclosure
- Old Chicago Post Office - Chicago, IL: Building envelope repairs and historic preservation consulting
- Princess Juliana International Airport - Simpson Bay, St. Maarten: Assessment of terminal structural system and curtain wall
- RLJ Lodging Trust - Various Locations, United States.: Facade assessment of portfolio-wide hotels and hospitality facilities
- United States Air Force Academy Cadet Chapel - Colorado Springs, CO: Recladding design

