



SERVICE PROFILE

Product Development, Evaluation, and Testing



- Structural testing and instrumentation
- Physical and mechanical testing of materials
- Material durability testing
- Chemical and petrographic testing
- Large-scale prototype testing
- Quality control systems and inspections
- Load capacity and safety factor determination
- Product evaluation

WJE was founded on a spirit of innovation—a belief that everything can be improved and that opportunities to develop creative solutions abound. Since 1956, we've specialized in the investigation and analysis of existing structures and the materials and products that are used in the construction of the built world. Having solved some of the most complex structural and architectural problems of the past six decades, WJE brings real world experience to product evaluation as well as the knowledge and resources to foster continued product development.

Our engineers, architects, and materials scientists are leaders in a wide range of industry organizations that develop many of the design standards and testing methods for construction-related components, systems, and materials. That knowledge, coupled with the capabilities of WJE's Janney Technical Center—one of the largest and most comprehensive private construction research laboratories in North America—uniquely positions us to test and evaluate nearly any construction-related assembly or product.

Our product development work includes laboratory verification of new and existing products; assistance with the evaluation of prototypes; and studies related to durability, long-term performance, and limitations of use. We apply our extensive technical expertise and state-of-the-art equipment and technology to successfully meet every new challenge.



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REPRESENTATIVE PROJECTS

- Chicago Skyway Toll Bridge: Development and evaluation of high-performance concrete mix
- Coal-Fired Electric Power Plant: Assessment of flue gas desulfurization process and quality of the produced synthetic gypsum to meet specifications of drywall manufacturer
- Simpson Strong-Tie: Mechanical and adhesive anchor testing to meet International Code Council Evaluation Service criteria
- Society of Heating, Refrigerating, and Air-Conditioning Engineers: Airtightness testing of mid- and high-rise nonresidential buildings in development of ASHRAE standard
- Stone Panels Inc.: Evaluation of stone-faced honeycomb facade panels
- Strategic Highway Research Program: Evaluation of treatments for mitigating alkali-silica reaction in pavement
- Welding Company of America: Proof load testing of cylinder carts

