



**Engineered Solutions
for Building Performance Testing**

www.becslabs.com



ASTM E 1105 - Standard Test Method for Field Determination of Water Penetration of Installed Exterior Windows, Skylights, Doors, and Curtain Walls, by Uniform or Cyclic Static Air Pressure Difference.

Testing Capabilities Include:

- Static and Dynamic Water Intrusion Testing
- Building Science Studies for Thermal, Moisture, and Air Infiltration
- Acoustic Performance Design Assessment and On-site Testing
- Full Scale Lab and On-site Performance Mock-up Design
- Product Testing and Evaluations
- Air Barrier Inspections and Whole Building Air Tightness
- Life Safety / Structural Load Testing
- Electronic Leak Detection of Membranes

BECS Labs



Building Envelope Consultants and Scientists, LLC

identified that to provide the best solutions to our clients, we need to ensure the expertise of performance testing should be at our client's fingertips, so we developed BECS Labs.

BECS Labs provides field and laboratory testing capabilities to fully support our building envelope consultants. BECS Labs brings the experience and foremost experts in the industry to the science of the building envelope and its performance. BECS Labs can test the performance of the building and bring to the project actionable data. BECS Labs will test how your current building performs and test products to ensure they have the capacity to keep the inside in and the outside out. Areas of focus include:

Product Categories Include:

- Windows and Doors
- Glazing Systems
- Curtain Walls
- Louvers
- Store Fronts
- EIFS
- Skylights
- Exterior Walls
- Roofs
- Plazas & Foundation Systems

Testing Services



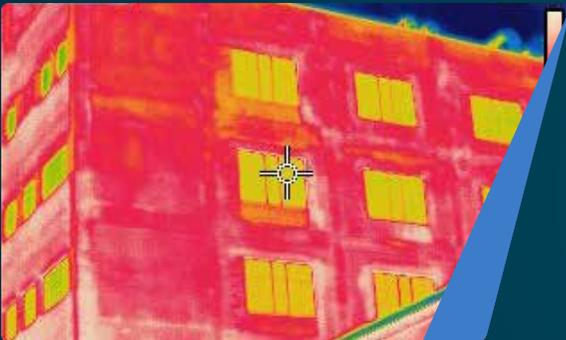
Air and Water Intrusion

Air and water intrusion is a key concern of Owners and Managers. BECS Labs uses forensic and performance testing on new construction and repairs.



BECx Commissioning

Building Enclosure Commissioning (BECx) tests and provides a quality assurance process to ensure the building's performance requirements are being met.



Thermal Analysis

Thermal scanning allows us to see where temperature fluctuations may be present. These fluctuations can indicate where air and water may be leaking and provide information on poor-performing components.



Structural Load Testing

BECS Labs provides load testing on building products, in situ components, and anchored fixtures. BECS Labs can certify life safety systems and provide pass/fail reports based upon industry standards.



On-site Testing

BECS Labs performs on-site performance testing on sealant and coating adhesion, air leakage testing of membranes and barriers, and flood testing.



Product Testing & Witnessing

Manufacturers of windows, doors, curtain walls, and other building products works with BECS Labs to test their product's performance in both laboratory and prototype/mock-ups of real-world environments.



BECS Labs Most Common Tests Include:

AAMA 501.2	“Quality Assurance and Diagnostic Water Leakage Field Check of Installed Storefronts, Curtain Walls, and Sloped Glazing Systems”
AAMA 502	“Voluntary Specification for Field Testing of Newly Installed Fenestration Products”
AAMA 503	“Voluntary Specification for Field Testing of Newly Installed Storefronts, Curtain Walls and Sloped Glazing Systems”
ASTM C1060	“Standard Practice for Thermographic Inspection of Insulation Installations in Envelope Cavities of Frame Buildings”
ASTM C1153	“Standard Practice for Location of Wet Insulation in Roofing Systems Using Infrared Imaging”
ASTM C1601	“Standard Test Method for Field Determination of Water Penetration of Masonry Wall Surfaces”
ASTM C1715	“Standard Test Method for Evaluation of Water Leakage Performance of Masonry Wall Drainage Systems”
ASTM E283	“Test Method for Determining Rate of Air Leakage Through Exterior Windows, Curtain Walls, and Doors Under Specified Pressure Differences Across the Specimen”
ASTM E576	“Standard Test Method for Frost Dew Point of Sealed Insulating Glass Units in Vertical Positions”
ASTM E783	“Standard Test Method for Field Measurement of Air Leakage through Installed Exterior Windows and Doors”
ASTM E1105	“Standard Test Method for Field Testing Water Penetration”
ASTM E2128	“Standard Guide for Evaluating Water