

# EBCx Services

Has over 40 years of experience making buildings operate safely, comfortably, and energy efficiently.

Our business started as a family owned mechanical contractor in Miami, FL, founded by Cal Gordon in 1958.

Scott Gordon, Cal's son started working in the business in 1973. With over four decades of experience in the mechanical contracting, controls, engineering and energy services industries, Scott established EBCx Services in 2016.

The history behind EBCx Services provides decades of hands-on experience helping to make the built environment operate safely, comfortably, and energy efficiently. We roll up our sleeves and do what it takes to make buildings work.

## Services

- Building Enclosure Testing (BET)
- Thermal Infrared Imaging / Analysis
- Existing Building Commissioning (EBCx, RCx)
- New Building Commissioning
- Performance Verification
- Control System Retuning
- Trouble Shooting / Diagnostics
- Energy Audits / Assessments
- Indoor Air Quality (IAQ) Investigations
- Testing, Adjusting & Balancing (TAB) of HVAC Systems
- Training

## Credentials

- Certified Indoor Air Quality Professional (CIAQP)
- NEBB Certified Professional
- Class A Certified Air Conditioning Contractor Florida (CAC021304)
- Certified Energy Manager (CEM)
- Certified Measurement & Verification Professional (CMVP)
- Tridium Niagara N4 Certified
- Certificate Member (CM) with RSES
- LEED AP O+M

## Associations

- NEBB
- ASHRAE
- Association of Energy Engineers (AEE)
- Refrigeration Service Engineers Society (RSES)

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**EBCx Services**  
Optimizing Buildings since 1981

**Building Enclosure  
Testing (BET)**  
**Making Buildings  
Safe, Comfortable  
and Energy  
Efficient**



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## Building Enclosure Testing

Building Enclosure Testing (BET) is also known as blower door testing. BET is the most effective way to determine the air tightness of the building envelope. BET determines the amount of air that leaks into a building from the outside. The leakage rate directly correlates to the energy consumption of the HVAC system.

The cooling and heating capacity of HVAC systems are calculated based on a minimal amount of air leakage from the building envelope. When a building has excessive leakage, the HVAC system must operate longer to try and satisfy the cooling and heating load. BET provides a scientific procedure that determines how much air leaks into a building and where it leaks in from.



**Building Enclosure Testing is a value-added diagnostic procedure that identifies how much a building leaks air. The higher the rate of leakage correlates directly to higher energy costs.**

## Benefits of Building Enclosure Testing

- Reduces energy consumption due to air leakage
- Avoids moisture condensation problems
- Avoid uncomfortable drafts caused by unconditioned air leaking in from outdoors
- Improves occupant comfort and productivity
- Helps determine how much mechanical ventilation air is required to provide positive building pressurization
- Improves Indoor Air Quality (IAQ) by minimizing unfiltered and unconditioned outdoor air from entering the building



## How is Building Enclosure Testing Performed

A blower door consists of a large fan that is temporarily installed in a strategically selected exterior door of a commercial facility.

The blower door operates to reduce the internal pressure of the building as compared against the outdoor air pressure. After the building's internal air pressure is reduced, areas of leakage draw air into the building due to the negative pressure difference between indoor and outdoor air.



Using an infrared thermal imaging camera, surface temperature differences are identified, thus pinpointing the areas of air leakage that require sealing.

## Why EBCx Services

EBCx Services is certified by NEBB in Building Enclosure Testing (BET) and performs testing in compliance with ASTM E779 or the Army Core of Engineers Building Pressure Testing Guideline.

EBCx Services provides a complete report that documents the test compliance to the specified standard. EBCx Services has over forty years of experience working within the built environment, with a focus on HVAC systems. This experience combined with current BET and infrared thermal imaging is used to identify and seal air leakage in the building enclosure.