



Stop Leaks To Save Energy

Air Barrier Solutions for Building Envelopes

If your goal is to operate buildings with greater energy efficiency, consider improving your building envelopes. According to the Department of Energy, more than 10% of all U.S. energy use is attributed to the condition of building envelopes. If your buildings leak due to age or poor envelope construction, unintentional air infiltration can result -- costing you up to 40% more for heating and up to 15% more for cooling.¹

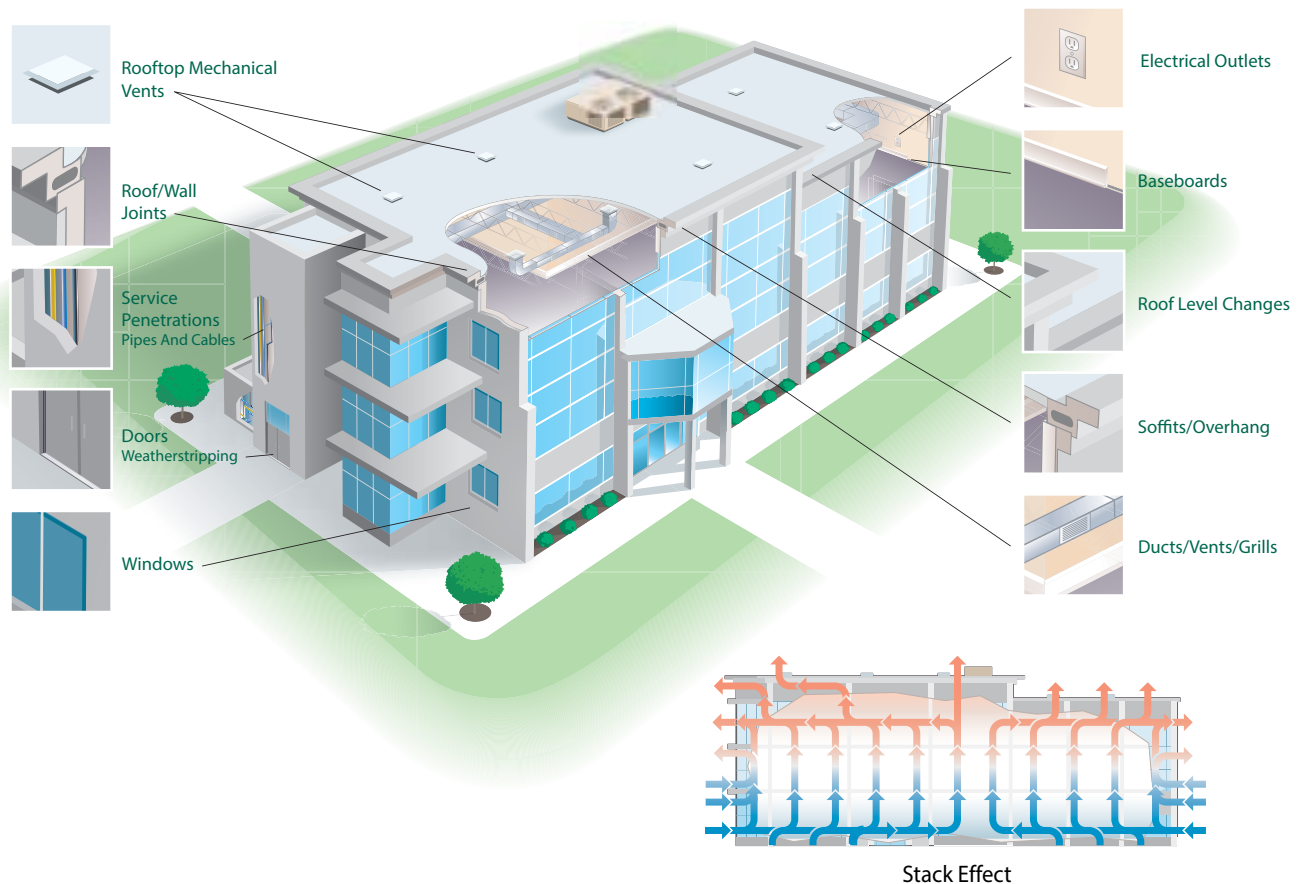
The solution is an air barrier audit to identify the leak sources and an air barrier system installation to control air leaks.

Integrated Solutions: Testing, Materials, Systems and Installation

Together with its affiliated companies, Canam Building Envelope Specialists and Weatherproofing Technologies, Inc. (WTI), Tremco offers a unique combination of air barrier solutions, from testing through system installation. Canam, a leader in building envelope solutions for more than 25 years, provides air barrier audits, retrofit installations and testing. WTI specializes in delivering services for the building envelope under design/build contracts, with the ability to manage the entire construction process and serve as the single point of responsibility.

The Leak Effect

While your building may seem airtight, tiny holes may exist in parts of your building envelope. These openings, coupled with air pressure differentials, result in air leakage.



¹ Air Barrier Association of America



Making Your Building Envelopes Airtight

Defects in building envelopes can vary dramatically based upon initial construction, building age, the environment and previous maintenance. Whether it's a crack in the curtain wall or faulty weatherstripping, the experienced team of Canam and WTI deliver customized, proven air barrier solutions, starting with a field survey to pinpoint where air is leaking. Smoke pencils are used to isolate

air entrance points, and energy assessment software is often used to identify leak sources. With this knowledge at hand, air sealing solutions are executed under the supervision of WTI.

The Consequences of Air Leakage:

- Unnecessary heat loss in winter or heat gain in summer, resulting in excessive energy consumption
- Improper operation of mechanical ventilation systems
- Poor indoor temperature and humidity control
- Degraded indoor air quality
- Condensation, moisture, mildew and mold damage in hidden cavities
- Deterioration of building materials at air leakage points

Typical Air Sealing Measures Include:

- Weatherstripping stairwell, exterior, underground, roof and balcony doors
- Weatherstripping overhead garage doors
- Sealing penetrations into elevator, boiler, garbage and electrical service rooms
- Sealing roof/wall intersections (the major leakage point)
- Weatherstripping of windows
- Sealing/caulking interior door and window trim
- Sealing/caulking interior soffit openings
- Sealing/caulking any interior wall cracks
- Compartmentalizing by sealing shafts, stairwells, pipes and conduits
- Sealing perimeters and joints in rooftop exhaust ducts



Reach Your Building Envelope's Full Potential

Air barrier solutions can help you find your building's energy-efficient potential. Pair energy savings with the likely increase in your building's longevity, and you'll see why "sealing the envelope" makes such good financial and environmental sense.

To learn more about air barrier solutions from Canam, please contact us today at 1.800.892.1872.



www.canambuildingenvelope.com

3735 Green Road • Beachwood, Ohio • 44122 • 1.800.852.6013

50 Beth Neilson Drive • Toronto, Ontario • M4H 1M6 • 1.800.668.9879