



# Air Barrier Testing

Through the use of large building fan pressurization testing, our experts are able to identify areas of air infiltration/exfiltration through the enclosure and to provide normalized air-leakage rates. The testing equipment, methodology, and personnel qualifications meet the requirements of the new USACE Air Leakage Test Protocol. In addition, our procedures for testing building air tightness are in accordance with:

- *ASTM E 1827 (2002)*
- *ASTM E 779 (2003)*

We also provide infrared thermography scanning to diagnose areas of building envelope air leakage, thermal bridges or missing insulation. The infrared thermography and smoke tracer diagnostics are in accordance with:

- *ASTM C 1060 (2003)*
- *ASTM 1186 (2003)*
- *ISO 6781:1983*

Diagnostics conform to USACE protocols and requirements.



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The air barrier is an important component of a building enclosure system that can improve HVAC system performance, increase occupant comfort, improve smoke/fire control, decrease damage to enclosure components from condensation, and, maybe most importantly, reduce energy consumption.

By reducing the air infiltration and exfiltration through the exterior enclosure to almost negligible amounts, the air barrier reduces energy consumption by reducing the associated heating and cooling loads and allows the designers to downsize the HVAC system. Air barriers also improve occupant comfort through noise transmission reduction, along with odor and contaminant control.

The US Department of Energy has stated that up to 40% of the energy used to heat and cool a building is due to uncontrolled air leakage.

Viridian can assist your design team in implementing an air barrier system that will enhance the performance of your building and the comfort of its occupants.

air barrier  
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