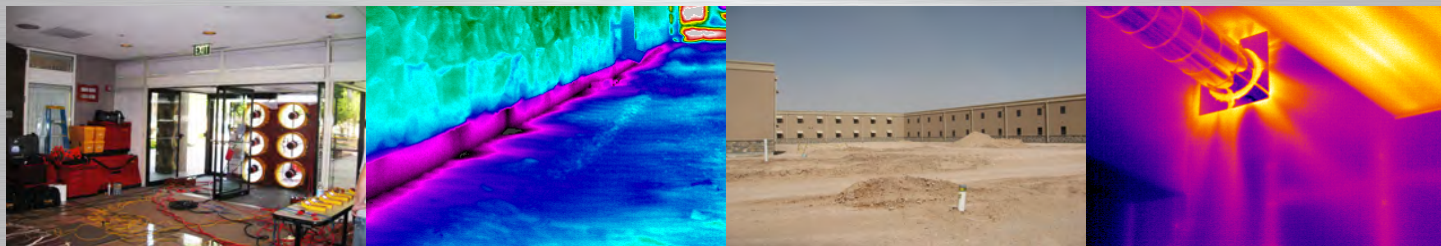


AIR BARRIER TESTING SERVICES

[www.airbarriertesting.com]



SMALL BUSINESS QUALIFICATION UNDER NAICS 541380

In 2008, the US Army Corps of Engineers (USACE) took the lead in mandating that all new and retrofitted conditioned buildings meet an air tightness metric verified by testing. GSA and other government, institutional and private entities have followed suit by adopting whole building air tightness requirements for their projects.

Pie Forensic Consultants (Pie) is recognized as the national leader in large building air barrier consulting, performance testing, and diagnostics.

COMPETITIVE ADVANTAGES

- **200+ large buildings throughout the United States and abroad:** number of buildings Pie has been retained to provide air barrier consultation and/or testing and diagnostic services (see reverse for a few representative projects).
- **100% success rate:** percentage of our clients whom have successfully passed the USACE air tightness requirement on the first attempt when Pie was retained to provide design and construction phase consultation.
- **0.11 cfm/ft², or 56% better than the USACE requirement:** average air leakage of our client's buildings when Pie provides design and construction phase consultation services.
- **1st ever new construction air tightness benchmark testing and diagnostics for USACE newly developed requirement:** Pie accomplished on three buildings in June 2008 at Ft. Bliss, Texas.
- **Primary technical contributor to USACE protocol:** Pie consulted to the US Army Corps of Engineers in their development of the air tightness testing protocol.
- **US Department of Army Recognition:** Pie was recognized by the Assistant Secretary of the Army in January 2011 for technical competence, contribution, training, and implementation guidance for air barriers in Army facilities.
- **10,000 to 525,000 square feet:** size range of buildings Pie has successfully tested and diagnosed.

AIR BARRIER PERFORMANCE TESTING

- Large building fan pressurization testing to identify areas of air infiltration/exfiltration through the enclosure and to provide normalized air-leakage rates.
- Testing building air tightness in accordance with ASTM E 1827 (2002) and ASTM E 779 (2003).
- Test programs conforming to USACE and GSA protocols and requirements.

DIAGNOSTICS

- Infrared thermography scanning to diagnose areas of building envelope air leakage, thermal bridges or missing insulation.
- Infrared thermography and smoke trace diagnostics in accordance with ASTM C 1060 (2003), ASTM 1186 (2003), and ISO 6781:1983.
- Diagnostic programs conforming to USACE and GSA protocols and requirements.

ADDITIONAL SERVICES

- Pre-design consultation with the design-build team on air barrier materials, assemblies, systems, detailing, and constructability.
- Technical plan and specification reviews by registered professional engineers to ensure that air barrier components of each assembly as well as joints, interfaces and penetrations are identified and detailed on construction documents.
- Preconstruction seminars custom tailored for your project to train contractors and subcontractors on proper material installation methods and identify typical leakage areas.
- Material submittal reviews and mock-up testing services.
- Quality assurance field observations during construction identifying typical compliant and non-compliant construction methods.
- Follow-up testing, diagnostics, and consultation in the event that the air barrier system fails to meet the required USACE air tightness metric.
- Envelope consulting and Building Enclosure Commissioning (BECx) to include commissioning the air, moisture, vapor, and thermal barriers, which can qualify for a LEED® ID credit.

APPLICABLE MEMBERSHIP AFFILIATIONS



Corporate Headquarters:
6275 Joyce Drive, Suite 200, Arvada, CO 80403-7541
(tel) 303.552.0177 (nationwide) 1.866.552.5246 (fax) 303.552.0178
www.pieforensic.com

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REPRESENTATIVE PROJECTS

[www.airbarriertesting.com]



SMALL BUSINESS QUALIFICATION UNDER NAICS 541380

Pie Forensic Consultants has been retained by clients across the United States and abroad to provide air barrier design and construction consultation and/or testing and diagnostics for over 200+ buildings:

ABROAD

- Building 5050, Meck Island - Kwajalein Atoll, Marshall Islands

ARIZONA

- Ft. Huachuca UASTB Tactical Equipment Maintenance Facility (TEMF)
- Ft. Huachuca UASTB Company Operations Facility (COF)
- U.S. Federal Courthouse, Yuma, AZ

COLORADO

- Ft. Carson Division Headquarters COF
- Ft. Carson Division Headquarters TEMF
- Ft. Carson 47th BCT –TEMFs and COFs (12 total)
- Ft. Carson 47th BCT Brigade Battalion Headquarters
- Ft. Carson Child Development Centers (4 total)
- Ft. Carson 47th Brigade Combat Team Dining Facility
- Ft. Carson Commissary
- Ft. Carson Warrior in Transition Barracks
- Ft. Carson Soldier Family Care Center and Behavioral Health Clinic
- Peterson Air Force Base Child Development Center
- Colorado Springs Armed Forces Reserve Center
- Lockheed Martin GPS III Processing Facility
- Poudre Valley School District, K-12 schools (11 total)

FLORIDA

- Camp Rudder Ranger Training Support Barracks

GEORGIA

- Ft. Stewart 5th IBCT Medium TEMFs & COF's (12 total)
- Ft. Stewart 4th BCT Physical Fitness Facility
- Ft. Benning TEMF and ECS Warehouse
- Ft. Benning Battalion Dining Facilities
- Ft. Benning Reception Station Barracks (2 total)

KANSAS

- Ft. Riley Custer Hill Beddown Area COF

KENTUCKY

- Ft. Campbell Gardner Hills Elementary School
- Ft. Campbell Grow the Force Unit Maintenance Phase A COF

LOUISIANA

- Ft. Polk Volar Barracks Rehabilitation (16 total)
- Ft. Polk Warrior in Transition Barracks

MISSOURI

- Ft. Leonard Wood Basic Combat Trainee Barracks and HQ (5 total)
- Ft. Leonard Wood 4th MEB COF and Battalion Headquarters (2 total)

MICHIGAN

- Army Reserve Center Training Building and OMS

MONTANA

- Butte Armed Forces Reserve Training Building and OMS

NEW MEXICO

- White Sands Missile Range UOF Engineers Battalion TEMF

NORTH CAROLINA

- Ft. Bragg TEMF and Crypto Facility

NORTH DAKOTA

- Fargo Army Reserve Center Training Building and OMS

OKLAHOMA

- Ft. Sill Warrior in Transition Barracks
- Ft. Sill Advanced Infantry Training Barracks
- McAlester Army Reserve Center Training Center and OMS

PENNSYLVANIA

- University of Pennsylvania Horticulture Center, Morris Arboretum

TEXAS

- Ft. Bliss BCT 1 UEPH Barracks, COF, and TEMF (3 total)
- Ft. Bliss Consolidated Family Care / Troop Medical Clinic
- Ft. Bliss BCT 3 UEPH Barracks, COF's and TEMF's (7 total)
- Ft. Bliss Fire Brigade TEMF
- Ft. Bliss IBCT 1 & 2 UEPH Barracks and TEMF's (30 total)
- Ft. Bliss Child Development Centers (3 total)
- Ft. Sam Medical Education and Training Campus Dormitories (3 total)
- Ft. Sam Warrior in Transition Barracks
- Ft. Sam BRAC-FSH METC Medical Instruction Facilities (2 total)
- Ft. Sam Grow the Force AIT Barracks (2 total)
- Ft. Hood UEPH and Warrior in Transition Barracks (2 total)
- Ft. Hood Carl R. Darnall Replacement Hospital
- Corpus Christi Controlled Humidity Storage Facility
- Amarillo Armed Forces Reserve Center
- Goodfellow Air Force Base Student Dormitory

WASHINGTON

- Yakima Army Reserve Center Training Building and OMS
- Vancouver Army Reserve Center Training Building and OMS

WYOMING

- National Center for Atmospheric Research Supercomputing Center
- University of Wyoming Berry Center



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