

Project: Military Housing - Southeast U.S. Confidential Client



CHALLENGE:

A housing assessment was needed at a U.S. Air Force Base (AFB) to get HVAC systems in nearly 100 homes working satisfactorily and to remediate any observable mold growth.

SOLUTION:

Liberty conducted building performance and HVAC diagnostics to test building air tightness and evaluate overall home pressurization and entire HVAC system performance.

RESULTS:

Cumulative test results indicated that no additional means were necessary to tighten the envelope, nor were additional provisions necessary to provide ventilation for acceptable indoor air quality.

CASE EXPERTS:

George H. DuBose, CGC – Project Expert
Donald B. Snell, PE - Sr. Forensic Consultant

SERVICES PROVIDED:

Liberty Building Forensics Group (Liberty) provided diagnostic testing (including blower door testing and pressure pan testing) to test building air tightness and evaluate overall home pressurization and HVAC system performance.

CASE SUMMARY:

Liberty was asked to determine what was needed to get HVAC units in up to 100 homes at a U.S. AFB working in such a way as to prevent moisture-related problems, and to remediate any mold problems we discovered. Blower door testing showed the homes' envelopes to be fairly tight and adequate to meet required ventilation rates. Attic mechanical exhaust systems were recommended for removal and outside air ductwork was recommended for positive pressurization.