

# ICC-ES AC377 SPRAY FOAM INSULATION TESTING

THIRD-PARTY TESTING FOR SPRAY FOAM PRODUCTS  
SEEKING AN ICC-ES EVALUATION REPORT UNDER AC377

Spray polyurethane foam insulation used on IBC and IRC-governed projects in the United States requires an ICC-ES Evaluation Report as evidence of code compliance. Without a complete AC377 test package, building officials cannot approve your product for permitted work, and outdated or incomplete test data creates delays at the job site. QAI provides the third-party testing manufacturers need to submit a complete evaluation package to ICC-ES.

## WHAT THE TESTING COVERS

QAI conducts the material, thermal, and fire performance testing required under ICC-ES AC377 for both closed cell and open cell spray foam formulations.

For manufacturers targeting applications without thermal or ignition barriers, QAI also performs Appendix X testing to cover attic, crawl space, and unvented roof assembly installations.

## FREQUENT TESTING METHODS AND STANDARDS

- Flame spread and smoke index per ASTM E84
- Room corner fire performance per NFPA 286
- Density and compressive strength per ASTM D1622 and D1621
- Thermal resistance (R-value) per ASTM C518
- Vapor permeance per ASTM E96
- Fire resistance assembly testing per ASTM E119 (where applicable)

Contact us at [info@qai.org](mailto:info@qai.org) for your ICC-ES AC377 testing and evaluation report support.



Exposed spray foam  
installed in residential attic space



Flame spread and  
fire performance testing



Test package ready for ICC-ES  
evaluation report submission

## About QAI

Founded in 1995, QAI is a testing, inspection, and certification body (CB) that holds accreditations with IAS and the Standards Council of Canada (SCC), and is recognized by OSHA as a Nationally Recognized Testing Laboratory (NRTL). From initial planning through final approval, QAI provides a structured and efficient testing and certification process.

Our team works closely with manufacturers to clarify requirements, plan testing efficiently, and keep projects moving with practical communication throughout the process.