

STEINER TUNNEL FIRE TESTING FOR SAFER BUILDING MATERIALS

TESTING AND CERTIFICATION SUPPORT FOR ASTM E84 AND UL 723 COMPLIANCE

QAI provides testing using Steiner Tunnel methods, which is essential for evaluating how building materials perform when exposed to fire.

The Steiner Tunnel Test is commonly used to evaluate the surface burning characteristics of building materials. Test results document two primary measures:

- Flame Spread: how far flame travel across is observed along the surface during the test.
- Smoke Developed: the amount of smoke generated during the test.

These results are used to determine Class A, B, or C classifications and are commonly referenced in building code requirements and project specifications.

QAI Offers

- ASTM E84 – Standard method for surface burning characteristics
- UL 723 – Fire testing for building materials
- ASTM E2768 – Extended duration testing for low flame spread materials
- CAN/ULC S102 – Canadian standard for surface burning characteristics

From initial consultation to final certification, QAI makes fire testing simple, reliable, and effective.

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).



Surface Burning Testing



ASTM, UL, and CAN/ULC Testing



Testing Under Accredited Scopes