



FIRE DAMPER TESTING EQUIPMENT

Fire Damper Testing Equipment

Fire dampers and smoke dampers are passive fire protection components installed within ductwork and wall or floor penetrations to prevent the spread of fire and toxic smoke through a building's ventilation system. Their reliable actuation and sealing performance under both ambient and fire conditions is critical to life safety — and must be verified through comprehensive, standardised testing before any product can be certified for installation.

The Torontech ToronFT™ Fire Damper Testing Equipment provides the complete range of apparatus required to evaluate fire and smoke damper performance at every stage of product development and type approval — from mechanical cycle endurance and ambient-temperature smoke leakage through to full-scale fire resistance testing in a calibrated vertical furnace. The system is aligned with EN 1366-2, ISO 834, EN 1363, BS 476, and equivalent international standards, supporting certification to E, EI, and EW fire resistance classifications.

APPLICATIONS

Applications & Industries

The ToronFT™ Fire Damper Testing Equipment is used by organisations across the following sectors:

- Fire and Smoke Damper Manufacturers: product development, production QC, and formal type-approval test submissions

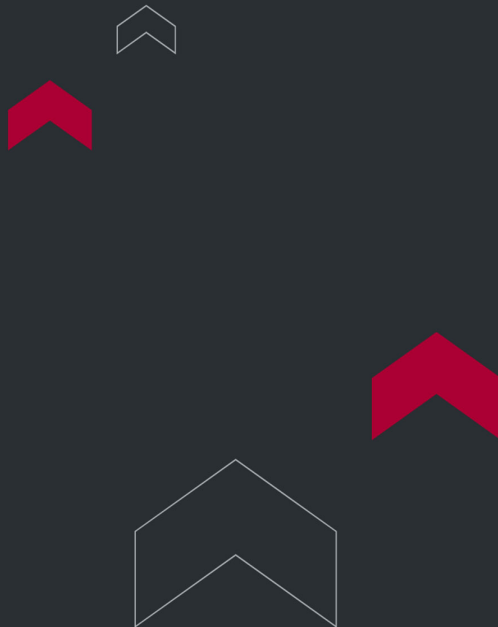
- HVAC & Ventilation Equipment Manufacturers: regulatory compliance testing for duct-integrated fire protection components
- Third-Party Fire Testing Laboratories: independent fire resistance and leakage testing for CE Marking, national listing, and approval body certification
- Building Products Certification Bodies: formal type-testing in support of EN 1366, BS 476, and equivalent national fire resistance standards
- Architecture, Engineering & Construction Specifiers: product evaluation for high-risk or complex building fire strategy applications
- Fire Safety Regulators & Code Authorities: market surveillance and enforcement testing of fire damper products
- Research & Standards Institutions: methodology development and round-robin testing in support of fire damper test standard revisions

FEATURES

Why Choose the ToronFT™ Fire Damper Testing Equipment?

Our Advantage	What That Means for You
Full Fire Resistance Test Capability	Our Vertical Furnace systems reproduce the ISO 834 / EN 1363 standard time-temperature curve with precision, enabling fire resistance classification of dampers, shutters, doors, and other vertical building elements to E, EI, and EW criteria.
Smoke Control Performance Testing	The Smoke Leakage tester measures leakage rates at ambient temperature to the requirements of EN 1366-2 and equivalent codes, providing the data needed for smoke damper classification and regulatory approval.
Mechanical Endurance Verification	The Opening and Closing Reliability Apparatus subjects damper actuators and mechanisms to thousands of full-travel cycles, confirming that the product will perform on demand after years of static installation.
Multi-Element Furnace Versatility	With two vertical furnace configurations — one optimised for door and damper elements, one for larger building components — the ToronFT™ system handles the full scope of EN 1366 and ISO 13943 test scopes without compromising on temperature uniformity.
Standards Compliance by Design	All apparatus are designed to satisfy EN 1366-2, ISO 834, EN 1363, BS 476, and equivalent national fire resistance test standards — giving manufacturers and certification laboratories confidence that results will be accepted by approval bodies globally.

Our Advantage	What That Means for You
Torontech Application Expertise	Fire resistance testing requires careful specimen preparation, thermocouple placement, and pressure regime control. Our applications engineers provide detailed setup guidance, test witnessing support, and full calibration documentation as standard.



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