

# FIRE BUILDING MATERIALS TESTING EQUIPMENT



# Fire Building Materials Testing Equipment

The fire performance of construction and building materials is one of the most regulated and consequential areas of product testing globally. Building codes, insurance requirements, and international standards mandate that materials used in walls, floors, ceilings, insulation, and facades are rigorously characterised for ignitability, flame spread, heat release, smoke production, toxic gas yield, and fire resistance before they can be specified or installed in any construction project.

The Torontech ToronFT™ Fire Building Materials Testing Equipment provides one of the most comprehensive single-source instrument ranges available for the full spectrum of building material fire performance evaluation. With 19 specialist apparatus covering everything from non-combustibility and ignitability testing through to Cone Calorimeter heat release characterisation, Single Burning Item (SBI) testing, smoke toxicity classification, and horizontal fire resistance furnace testing, the ToronFT™ range enables manufacturers, testing laboratories, and certification bodies to address EN 13501-1, ISO 5660, ISO 1182, ISO 9239, and a wide range of additional international and national construction product fire standards from a single supplier.

## APPLICATIONS

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### Applications & Industries

The ToronFT™ Fire Building Materials Testing Equipment is deployed across the following sectors:

- Building & Construction Product Manufacturers: reaction-to-fire and fire resistance testing for CE Marking, Euroclass classification, and national market approvals
- Insulation & Acoustic Panel Manufacturers: flammability, heat release, smoke density, and burn-through performance testing for thermal and acoustic insulation products
- Facade & Cladding System Manufacturers: large-scale and component-level fire performance testing for high-rise and complex facade assemblies

- Flooring Product Manufacturers: critical radiant flux and flame spread testing for carpet, resilient, and hard flooring systems
- Gypsum Board & Dry Lining Manufacturers: fire stability, reaction-to-fire, and fire resistance characterisation for board-based partition and ceiling systems
- Third-Party Testing & Certification Laboratories: independent evaluation to EN 13501-1, ISO 5660, ISO 1182, ISO 9239, ASTM E84, UL 94, and national equivalents
- Building Products Certification Bodies & Notified Bodies: formal type-testing for CE Marking and national building product approval programs
- Research & Standards Development Institutions: advanced material fire behaviour research, round-robin testing, and standard methodology development

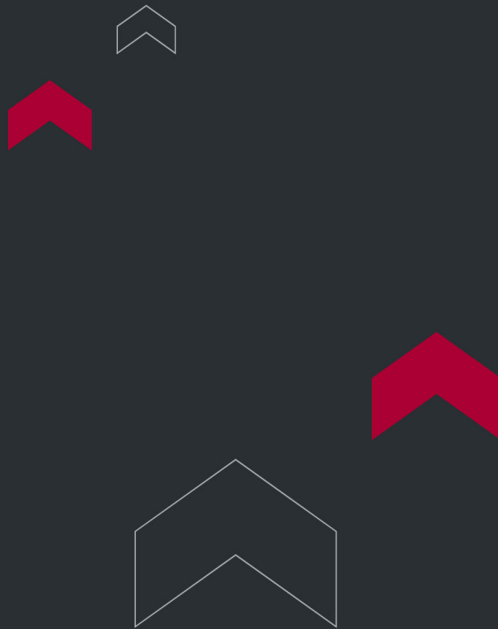
## FEATURES

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### Why Choose the ToronFT™ Fire Building Materials Testing Equipment?

| Our Advantage                                 | What That Means for You                                                                                                                                                                                                                                                                                                           |
|-----------------------------------------------|-----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Complete EN 13501-1 Classification Capability | The ToronFT™ range includes the Non-Flammability Tester (ISO 1182), Burning Heat Value Tester (ISO 1716), Ignitability Tester (ISO 11925-2), Single Burning Item (SBI) Tester, and Cone Calorimeter — the full instrument set required to generate classification data for every Euroclass from A1 through to F under EN 13501-1. |
| Heat Release Rate Expertise                   | From bench-scale Cone Calorimeter testing through to full-scale multi-functional HRR measurement, the ToronFT™ range covers heat release rate determination across every scale — supporting both product development and regulatory submission testing.                                                                           |
| Smoke & Toxicity Performance                  | Dedicated Smoke Density Testers and Smoke Toxicity Hazard Classification Tester address the critical life-safety dimensions of material fire performance — smoke production and toxic gas yield — which are increasingly required by building codes and insurance programs worldwide.                                             |
| Flooring & Specialist Product Coverage        | The Radiant Heat Flux Floor Coverings Tester (ISO 9239-1), Rock Wool Load Tester, and Gypsum Board Tester extend coverage beyond generic reaction-to-fire testing to the specialist performance requirements of flooring systems, thermal insulation, and board products.                                                         |

| Our Advantage                       | What That Means for You                                                                                                                                                                                                                                                                                          |
|-------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| Fire Resistance as Well as Reaction | The Horizontal Furnace for Fire Resistance means the ToronFT™ building materials range addresses both reaction-to-fire (material flammability) and fire resistance (element performance under fire exposure) testing — a rare single-supplier capability for full building product laboratories.                 |
| Scalable Laboratory Configuration   | Whether establishing a focused reaction-to-fire testing capability or equipping a full multi-standard building materials test laboratory, Torontech's applications team can configure and supply the right subset of apparatus — with laboratory layout planning, commissioning, and operator training included. |



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