



INTERNATIONAL  
ACCREDITATION  
SERVICE®

# CERTIFICATE OF ACCREDITATION

*This is to attest that*

## **FM APPROVALS**

743 REYNOLDS ROAD  
WEST GLOCESTER, RHODE ISLAND 02814, U.S.A.

### **Testing Laboratory TL-221**

has met the requirements of AC89, *IAS Accreditation Criteria for Testing Laboratories*, and has demonstrated compliance with ISO/IEC Standard 17025:2017, *General requirements for the competence of testing and calibration laboratories*. This organization is accredited to provide the services specified in the scope of accreditation.

Effective Date March 27, 2025



*International Accreditation Service*  
Issued under the authority of IAS management

Visit [www.iasonline.org](http://www.iasonline.org) for current accreditation information.

# SCOPE OF ACCREDITATION

International Accreditation Service, Inc.

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[www.fmapprovals.com](http://www.fmapprovals.com)

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*Accredited to ISO/IEC 17025:2017*

*Effective Date March 27, 2025*

| Fire                 |  |
|----------------------|--|
| ANSI/CAN/UL/ULC 2166 | Halocarbon Clean Agent Extinguishing System Units  |
| ANSI/FM 4880         | Interior walls - class 1 fire rating of insulated wall or wall and roof/ceiling panels, interior finish materials or coatings, and exterior wall systems     |
| ANSI/FM 4910         | Cleanroom materials flammability test protocol   |
| ANSI/FM 4950         | Evaluating welding pads, welding blankets, and welding curtains for hot works operations   |
| ANSI/FM 4996         | Classification of pallets and other material handling products as equivalent to wood pallets   |
| ANSI/FM 5560         | American National Standard for Water Mist Systems  |
| ANSI/FM 6020         | Evaluating Fire Performance of Composite Intermediate Bulk Containers (IBCs)   |
| ANSI/FM 6056         | Dip, Washing and Rinse Tanks   |
| ASTM E84             | Standard test method for surface burning characteristics of building materials   |
| ASTM E108            | Standard test methods for fire tests of roof coverings   |
| ASTM E119            | Standard test methods for fire tests of building construction and materials  |
| ASTM E814            | Standard test method for fire tests of penetration firestop systems  |
| ASTM E2058           | Standard test methods for measurement of material flammability using a fire propagation apparatus (FPA)  |
| EN 12094-1           | Fixed Fire Fighting Systems - Components for Gas Extinguishing Systems - Part 1: Requirements and Methods for Electrical Automatic Control and Delay Devices |
| BS EN 12259-1        | Fixed firefighting systems - components for sprinkler and water spray systems – part 1: sprinklers   |
| BS EN 12259-2        | Fixed firefighting systems - components for sprinkler and water spray systems - part 2: wet alarm valve assemblies   |
| BS EN 12259-3        | Fixed firefighting systems - components for sprinkler and water spray systems – part 3: dry alarm valve assemblies   |

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|                     |   |
|---------------------|---|
| BS EN 12259-4       | Fixed firefighting systems - components for sprinkler and water spray systems – part 4: water motor alarms                                  |
| BS EN 12259-5       | Fixed firefighting systems - components for sprinkler and water spray systems – part 5: water flow detectors                                |
| BS EN 12259-9       | Fixed firefighting systems - components for sprinkler and water spray systems – part 9: water motor alarms                                  |
| BS EN 12259-12      | Fixed firefighting systems - components for sprinkler and water spray systems – part 12: sprinkler pumps                                    |
| BS EN 13823         | Reaction to fire tests for building products - building products excluding floorings exposed to the thermal attack by a single burning item |
| CEN TS 1187         | Test Methods for External Fire Exposure to Roofs.   |
| DD ENV 1187         | Test methods for external fire exposure to roofs (test methods 1-4)   |
| EN 54-2             | Fire detection and fire alarm systems - part 2 – control and indicating equipment   |
| EN 54-4             | Fire detection and fire alarm systems - part 4 – power supply equipment   |
| EN 54-5             | Heat Detectors - Point Detectors  |
| EN 54-10            | Fire detection and fire alarm systems - part 10 – flame detectors – point detectors (clause 5.5)  |
| EN 54-17            | Short Circuit Isolators   |
| EN 54-18            | Input-Output Devices  |
| FM 1011, 1012, 1013 | Deluge and Pre-Action Systems   |
| FM 1020             | Automatic Water Control Valves  |
| FM 1021             | Dry Pipe Valves   |
| FM 1031             | Quick Opening Devices (Accelerators and Exhausters) for Dry Pipe Valves   |
| FM 1032             | Air Pressure Maintenance Device   |
| FM 1035             | Nitrogen Generators   |
| FM 1041             | Alarm Check Valves  |
| FM 1042             | Vane-Type Waterflow Alarm Indicators  |
| FM 1044             | Fire Service Meters   |
| FM 1046             | Fire Pump Flowmeter Systems   |
| FM 1051             | Automatic Drip Valve  |
| FM 1112             | Indicating Valves (Butterfly or Ball Type)  |

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|               |   |
|---------------|---|
| FM 1120, 1130 | Fire Service Water Control Valves (OS&Y and NRS Type Gate Valves)                           |
| FM 1140       | Quick Opening Valves ¼ in through 2 in Nominal Size   |
| FM 1210       | Swing Check Valves  |
| FM 1311       | Centrifugal Fire Pumps Split Case Type (Axial or Radial)                                    |
| FM 1312       | Centrifugal Fire Pumps Split Case Type (Vertical Shaft, Turbine Type)                       |
| FM 1313       | Positive Displacement Fire Pumps (Rotary Gear Type)   |
| FM 1319       | Centrifugal Fire Pumps (Horizontal, End Suction Type)                                       |
| FM 1323       | Controllers for Electric Motor and Diesel Engine Driven Fire Pumps                          |
| FM 1336       | Fire Pump Couplings and Flexible Connecting Shafts for Fire Protection Service              |
| FM 1338       | Right Angle Gear Drives   |
| FM 1370       | Centrifugal Fire Pumps (Vertical Shaft, Turbine Type, Barrel)                               |
| FM 1371       | Centrifugal Fire Pumps (In-line Type)   |
| FM 1421       | Monitor Assembly  |
| FM 1510       | Fire Hydrants-Dry Barrel Type for Private Fire Service                                      |
| FM 1511       | Fire Hydrants-Wet Barrel Type for Private Fire Service                                      |
| FM 1521       | Angle and Straightaway Hose Valves  |
| FM 1522       | Angle and Straightaway Hose Valves  |
| FM 1612       | Polyvinyl Chloride (PVC) Pipe and Fittings for Underground Fire Protection Service          |
| FM 1613       | Polyethylene (PE) Pipe and Fittings for Underground for Underground Fire Protection Service |
| FM 1614       | Fiber Reinforced Composite (FRP) Pipe and Fittings for Underground Fire Protection Service  |
| FM 1616       | Underground Pipe Rehabilitation Systems   |
| FM 1625       | Sprinkler System Alert Test Devices   |
| FM 1626       | Riser Manifold Assemblies   |
| FM 1630       | Steel Pipe for Automatic Sprinkler Systems  |
| FM 1635       | Plastic Pipe and Fittings Systems   |
| FM 1637       | Flexible Sprinkler Hose With Threaded End Fittings  |

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|         |   |
|---------|---|
| FM 1920 | Pipe Couplings and Fittings for Aboveground Fire Protection Systems   |
| FM 1950 | Seismic Sway Braces for Pipe, Tubing and Conduit  |
| FM 1951 | Pipe Hanger Components for Automatic Sprinkler Systems  |
| FM 1952 | Pipe Hanger Components for Automatic Sprinkler Systems  |
| FM 1953 | Pipe Hanger Components for Automatic Sprinkler Systems  |
| FM 2021 | Automatic and Open Water Spray Nozzles for Installation in Permanently Piped Systems  |
| FM 2025 | Automatic and Open Water Spray Nozzles for Installation in Permanently Piped Systems  |
| FM 2111 | Fire Hose Assemblies and Fire Hose Couplings  |
| FM 2131 | Fire Hose Assemblies and Fire Hose Couplings  |
| FM 2311 | Vacuum and Pressure Gauges for Fire Protection Systems  |
| FM 3971 | Fire Protective Coatings and Wraps for Grouped Cables   |
| FM 3972 | Test Standard for Cable Fire Propagation  |
| FM 4100 | Fire Door Assemblies*   |
| FM 4121 | Fire and Smoke Door Holder and/or Release Devices   |
| FM 4430 | Heat and smoke vents  |
| FM 4880 | Class 1 fire rating of insulated wall or wall and roof/ceiling panels, interior finish materials or coatings, and exterior wall systems |
| FM 4882 | Class 1 interior wall and ceiling materials or systems for smoke sensitive occupancies  |
| FM 4910 | Cleanroom materials flammability test protocol  |
| FM 4911 | Wafer carriers for use in cleanrooms  |
| FM 4922 | Fume exhaust ducts or fume and smoke exhaust ducts  |
| FM 4924 | Pipe and duct insulation  |
| FM 4950 | Evaluating welding pads, welding blankets, and welding curtains for hot works operations  |
| FM 4970 | Fire Protection of Steel Framing Members for High Hazard Occupancies (subcontracted-witnessed only)                                     |
| FM 4971 | Fire Protective Coatings for LP Gas Steel Storage Vessels and Process Structures (subcontracted-witnessed only)                         |

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|--------------|---|
| FM 4975      | Fire Retardant Paints and Coatings Over Combustible Surfaces  |
| FM 4990      | Firestopping  |
| FM 4991      | Firestop Contractors  |
| FM 4996      | Classification of Pallets and Other Material Handling Products as Equivalent to Wood Pallets                                    |
| FM 5130      | Foam Extinguishing Systems  |
| FM 5580      | Hybrid (Water and Inert Gas) Fire Extinguishing Systems   |
| FM 5600      | Clean Agent Extinguishing Systems   |
| FM 5700      | Explosion Suppression Systems (Excluding 4.14)  |
| FM 5800      | Oxygen Reduction Systems  |
| FM 6050-2016 | Storage Cabinets for Ignitable (Flammable) Liquids  |
| FM 6053      | Bench, Swab, Plunger and Dispenser Cans   |
| FM 6061      | Flame Arresters   |
| FM 6065      | Funnels Used with Ignitable Liquids   |
| FM 6340      | Toxic Gas and Oxygen Depletion Detectors  |
| FM 6920/6921 | Oily Waste Cans and Containers  |
| FM 6930      | Flammability classification of industrial fluids  |
| FM 7400      | Liquid and Gas Safety Shutoff Valves  |
| FM 7745      | Liquid Leak Detectors   |
| ISO 1182     | Reaction to fire tests for products -- non-combustibility test  |
| ISO 1716     | Reaction to fire tests for products -- determination of the gross heat of combustion (calorific value)                          |
| ISO 9705     | Fire tests -- full-scale room test for surface products   |
| ISO 11925-2  | Reaction to fire tests -- ignitability of products subjected to direct impingement of flame -- part 2: single-flame source test |
| ISO 13784-1  | Reaction to fire test for sandwich panel building systems - Part 1: Small room test   |
| ISO 13784-2  | Reaction-to-fire tests for sandwich panel building systems - part 2: test method for large rooms                                |
| NFPA 252     | Standard methods of fire tests of door assemblies   |





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|                   |   |
|-------------------|---|
| NFPA 276          | Standard method of fire test for determining the heat release rate of roofing assemblies with combustible above-deck roofing components                         |
| UL 10B            | Standard for fire tests of door assemblies  |
| UL 790            | Standard for standard test methods for fire tests of roof coverings   |
| <b>Physical</b>   |   |
| ANSI/FM 2510-2014 | American National Standard for Flood Abatement Equipment  |
| ANSI/FM 4473      | Specification test standard for impact resistance testing of rigid roofing materials by impacting with freezer ice balls  |
| ANSI/FM 4474      | Standard for evaluating the simulated wind uplift resistance of roof assemblies using static positive and/or negative differential pressures                    |
| ANSI/FM 4476      | Flexible Photovoltaic Modules   |
| ANSI/FM 4477      | Vegetative Roof Systems   |
| ANSI/FM 4478      | American National Standard for Rigid Photovoltaic Modules   |
| ANSI/FM 4920-2014 | Filters Used in Clean Room Facilities   |
| ASTM D3161/D3161M | Standard test method for wind-resistance of steep slope roofing products (fan-induced method)   |
| ASTM G154         | Standard practice for operating fluorescent ultraviolet (UV) lamp apparatus for exposure of nonmetallic materials   |
| FM 1610           | Ductile Iron Pipe and Fittings, Flexible Fittings, and Couplings  |
| FM 1950           | Seismic Sway Braces for Pipe, Tubing, and Conduit   |
| FM 2510-2013      | Flood Abatement Equipment   |
| FM 4350           | Windstorm Resistant Fenestrations   |
| FM 4431           | Skylights   |
| FM 4450           | Class I insulated steel deck roofs  |
| FM 4451           | Profiled Steel Panels for Use as Decking in Class I Insulated Roof Construction   |
| FM 4454           | Lightweight Insulating Concrete for Use in Class 1 and Non-Combustible Roof Constructions   |
| FM 4470           | Single-ply, polymer-modified bitumen sheet, built-up roof (BUR) and liquid applied roof assemblies for use in class 1 and noncombustible roof deck construction |
| FM 4471           | Class 1 panel roofs   |
| FM 4472           | Cementitious Panel Roof Decks   |

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|              |                                       |
|--------------|---------------------------------------|
| FM 4475      | Class 1 steep slope roof covers       |
| FM 4476      | Flexible photovoltaic modules         |
| FM 4477      | Vegetative roof systems               |
| FM 4481      | Anchors for roof mounted equipment    |
| FM 4482      | Roof Maintenance Coatings             |
| FM 4881      | Class 1 exterior wall systems         |
| FM 4920-2013 | Filters Used in Clean Room Facilities |
| FM 4930      | Cooling towers                        |
| FM 6049      | Storage Buildings and Lockers         |

*ANSI: American National Standards Institute*

*ASTM: American Society for Testing and Materials*

*BS EN: British Standards European Norm*

*NFPA: National Fire Protection Association*

*UL: Underwriters Laboratories*

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