مركز الاعتماد الخليجي
GCC Accreditation Center

ASIA PACIFIC ACCREDITATION COOPERATION
GAC is APAC signatory for ISO/IEC 17065

# Certificate of Accreditation

## Emirates Safety Laboratory

240 Al Awir Road, Warsan 3, Mushraif, Dubai, United Arab Emirates

**Product Certification Body – Accreditation No. APC 0097**

This is to testify that the above stated conformity assessment body (CAB) is accredited by the GCC Accreditation Center (GAC) and has fulfilled the accreditation requirements in accordance with the recognized International Standard ISO/IEC 17065:2012, "*Conformity assessment - Requirements for bodies certifying products, processes and services*"

This accreditation demonstrates technical competence for a defined scopes as detailed and at the locations specified within this document.

This is a digitally issued certificate and does not require a physical signature. The accreditation is subject to continued compliance with GAC requirements. The current accreditation status and certificate authenticity can be verified on the official GAC website:

GAC website https://gac.org.sa/

**Accreditation Certificate Issue Date: 30 November 2025**

**Notes:**

Internal project number: AC 0391
Initial Accreditation Date: 04 September 2022
File Manager: Salim H. AlSaidi

**CAB Contact Details:**

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**Scope particulars:**

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|---|---|---|---|
| **Scope Issue No:** | 06 | **Scope Issued Date:** | 30 November 2025 |
| **Details of scope updates** *(if any)* | | | |
| **Locations where scope activities are covered by under this accreditation:** | | | |
| **Location-1** | 240 Al Awir Road, Warsan 3, Mushraif, Dubai, United Arab Emirates | **Date of Inclusion in Accreditation**: 04 Sep 2022 | |

## Scope:

**40. Product Certification:**

40.01 Product Certification

## Scope details are as follows:

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|

| Product Category | Items, Materials or Products | Standards | Remarks *(if any)* |
|---|---|---|---|
| **1. Fire-resistant construction products and building elements** | Partitions and building structure; Non-loadbearing elements (including walls, ceilings, curtain wall, spandrel-panel assemblies); Loadbearing elements (walls, beams, columns, floors or roofs); Protected structural members; service ducts & shafts; glazed elements.<br><br>Means of egress; Fire-resistant door assemblies (including shutters, fire curtain, building hardware); Fire-resistant window assemblies; Air transfer grills.<br><br>Firestop systems; Penetration seals / fire stops (through-penetration); Linear joint seals / fire resistive joint systems; Perimeter fire barrier system, cavity barriers | ASTM E119, Standard Test Methods for Fire Tests of Building Construction and Materials.<br>ASTM E814, Standard Test Method for Fire Tests of Penetration Firestop Systems.<br>ASTM E1966, Standard Test Method for Fire-Resistive Joint Systems.<br>ASTM E2307, Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus.<br>ASTM E2874, Standard Test Method for Determining the Fire-Test Response Characteristics of a Building Spandrel-Panel Assembly Due to External Spread of Fire.<br>BS 476-20, Fire tests on building materials and structures. Method for determination of the fire resistance of elements of construction (general principles).<br>BS 476-21, Fire tests on building materials and structures - Methods for determination of the fire resistance of loadbearing elements of construction.<br>BS 476-22, Fire tests on building materials and structures - Method for determination of the fire resistance of non-loadbearing elements of construction.<br>BS 476-23, Fire tests on building materials and structures - Methods for determination of the contribution of components to the fire resistance of a structure.<br>BS 8524-1, Active fire curtain barrier assemblies. Specification.<br>EN 1363-1, Fire resistance tests - Part 1 General requirements.<br>EN 1363-2, Fire resistance tests - Part 2 Alternative and additional procedures.<br>EN 1364-1, Fire resistance tests for non-loadbearing elements - Part 1: Walls.<br>EN 1364-2, Fire resistance tests for non-loadbearing elements - Part 2: Ceilings.<br>EN 1364-3, Fire resistance tests for non-loadbearing elements - Part 3: Curtain walling - Full configuration (complete assembly).<br>EN 1364-4, Fire resistance tests for non-loadbearing elements - Part 4: Curtain walling - Part configuration.<br>EN 1364-5, Fire resistance tests for non-loadbearing elements – Part 5: Air transfer grilles.<br>EN 1364-6, Fire resistance tests for non-loadbearing elements - Part 6: Open-state cavity barriers.<br>EN 1365-1, Fire resistance tests for loadbearing elements - Part 1: Walls.<br>EN 1365-2, Fire resistance tests for loadbearing elements - Part 2: Floors and roofs. | |

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| | | EN 1365-3, Fire resistance tests for loadbearing elements - Part 3: Beams.<br>EN 1365-4, Fire resistance tests for loadbearing elements - Part 4: Columns.<br>EN 1366-3, Fire resistance tests for service installations - Part 3: Penetration seals.<br>EN 1366-4, Fire resistance tests for service installations - Part 4: Linear joint seals.<br>EN 1366-5, Fire resistance tests for service installations - Part 5: Service ducts and shafts.<br>EN 1366-6, Fire resistance tests for service installations - Part 6: Raised access and hollow core floors.<br>EN 1634-1, Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows.<br>EN 1634-2, Fire resistance and smoke control tests for door, shutter and openable window assemblies and elements of building hardware - Part 2: Fire resistance characterisation test for elements of building hardware.<br>EN 1634-3, Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control test for door and shutter assemblies.<br>EN 13381-4, Test methods for determining the contribution to the fire resistance of structural members - Part 4: Applied passive protection to steel members.<br>EN 13381-8, Test methods for determining the contribution to the fire resistance of structural members - Part 8: Applied reactive protection to steel members.<br>EN 13501-2, Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services.<br>EN 16034, Pedestrian doorsets, industrial, commercial, garage doors and openable windows - Product standard, performance characteristics - Fire resisting and/or smoke control characteristics.<br>IS 3614, Fire Doors.<br>IS 16945, Fire resistance test for Glass Walls.<br>IS 16947, Fire resistance tests for doors with glass panes, openable glass windows with glass panes, and sliding glass doors.<br>IS/ISO 834-1, Fire-resistance Tests Elements: General Requirements.<br>IS/ISO 834-4, Fire-resistance tests Elements: Load bearing vertical separating elements. | |

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| | | IS/ISO 834-5, Fire-resistance Tests Elements: Load bearing horizontal separating elements.<br>IS/ISO 834-6, Fire-resistance Tests Elements: Beams.<br>IS/ISO 834-7, Fire-resistance Tests Elements: Columns<br>IS/ISO 834-8, Fire-resistance tests Elements: Non-Load bearing vertical separating elements.<br>IS/ISO 834-9, Fire-resistance tests Elements: Non-Load bearing ceiling elements.<br>IS/ISO 3008-1, Fire resistance tests — Door and shutter assemblies — Part 1: General requirements.<br>ISO 834-1, Fire-resistance tests — Elements of building construction — Part 1: General requirements.<br>ISO 834-4, Fire-resistance tests — Elements of building construction — Part 4: Specific requirements for loadbearing vertical separating elements.<br>ISO 834-5, Fire-resistance tests — Elements of building construction — Part 5: Specific requirements for loadbearing horizontal separating elements.<br>ISO 834-6, Fire-resistance tests — Elements of building construction — Part 6: Specific requirements for beams.<br>ISO 834-7, Fire-resistance tests — Elements of building construction — Part 7: Specific requirements for columns.<br>ISO 834-8, Fire-resistance tests — Elements of building construction — Part 8: Specific requirements for non-loadbearing vertical separating elements.<br>ISO 834-9, Fire-resistance tests — Elements of building construction — Part 9: Specific requirements for non-loadbearing ceiling elements.<br>ISO 3009, Fire-resistance tests — Elements of building construction — Glazed elements.<br>NFPA 80, Standard for Fire Doors and Other Opening Protectives<br>NFPA 252, Standard Methods of Fire Tests of Door Assemblies.<br>NFPA 257, Standard on Fire Test for Window and Glass Block Assemblies.<br>NFPA 288, Standard Methods of Fire Tests of Horizontal Fire Door Assemblies Installed in Horizontal Fire Resistance-Rated Assemblies.<br>UL 9, Standard for Fire Tests of Window Assemblies.<br>UL 10B, Standard for Fire Tests of Door Assemblies.<br>UL 10C, Positive Pressure Fire Tests of Door Assemblies. | |

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| | | UL 10D, Standard for Fire Tests of Fire-Protective Curtain Assemblies.<br>UL 263, Fire Tests of Building Construction and Materials.<br>UL 1479, Standard for Fire Tests of Penetration Firestops.<br>UL 1709, Standard for Rapid Rise Fire Tests of Protection Materials for Structural Steel.<br>UL 1784, Standard for Air Leakage Tests of Door Assemblies and Other Opening Protectives.<br>UL 2079, Tests for Fire Resistance of Building Joint Systems. | |
| **2. Reaction to fire of internal building construction components / finishing materials and decorative combustible materials** | Interior wall, ceiling and floor finishing/covering materials (including gypsum boards, plaster boards, metal composite materials, aluminium composite panels, sandwich panels, textile wall/ceiling/floor, expanded wall vinyl coverings, floor carpets, wood parquet, vinyl flooring).<br><br>Decorative combustible materials (including fabrics used in curtains, draperies or other window treatments, vinyl-coated fabrics, plastic films, fabrics used in tents, tarps, membrane structures, banners for kiosks).<br><br>Upholstered furniture, mattresses, bed bases, bed covers & pillows<br><br>Other materials used in several services & construction products (including ducts and pipe insulations, thermal barriers, fire-retardant | ANSI/UL 723, Standard for Test for Surface Burning Characteristics of Building Materials.<br>ASTM D2859, Standard Test Method for Ignition Characteristics of Finished Textile Floor Covering Materials.<br>ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.<br>ASTM E136, Standard Test Method for Assessing Combustibility of Materials Using a Vertical Tube Furnace at 750°C.<br>ASTM E648, Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.<br>ASTM E1353, Standard Test Methods for Cigarette Ignition Resistance of Components of Upholstered Furniture.<br>ASTM E1537, Standard Test Method for Fire Testing of Upholstered Furniture.<br>ASTM E1590, Standard Test Method for Fire Testing of Mattresses.<br>ASTM E2652, Standard Test Method for Assessing Combustibility of Materials Using a Tube Furnace with a Cone-shaped Airflow Stabilizer, at 750°C.<br>ASTM E2768, Standard Test Method for Extended Duration Surface Burning Characteristics of Building Materials (30 min Tunnel Test).<br>ASTM E2965, Standard Test Method for Determination of Low Levels of Heat Release Rate for Materials and Products Using an Oxygen Consumption Calorimeter.<br>BS 476-6, Fire tests on building materials and structures. Method of test for fire propagation for products.<br>BS 476-7, Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products. | |

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| | treated wood, fire-retardant coatings, foamed plastics used in decorative purposes) | BS 476-12, Fire tests on building materials and structures. Method of test for ignitability of products by direct flame impingement.<br>BS 5852, Methods of test for assessment of the ignitability of upholstered seating by smouldering and flaming ignition sources.<br>BS 6807, Methods of test for assessment of ignitability of mattresses, upholstered divans and upholstered bed bases with flaming types of primary and secondary sources of ignition.<br>BS 7175, Methods of test for the ignitability of bedcovers and pillows by smouldering and flaming ignition sources.<br>BS 7177, Mattresses, pads, divans and bed bases.<br>CAN/ULC-S102.2, Standard method of test for surface burning characteristics of flooring, floor coverings, and miscellaneous materials and assemblies.<br>CAN/ULC-S109, Standard method for flame tests of flame-resistant fabrics and films.<br>CPSC 16 CFR 1630, Standard for the surface flammability of carpets and rugs (FF 1-70).<br>CPSC 16 CFR 1632, Standard for the flammability of mattresses and mattress pads (FF 4-72, amended).<br>CPSC 16 CFR 1634, Upholstered furniture.<br>DIN 4102-1, Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests.<br>EN 597-1, Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 1 Ignition source smouldering cigarette.<br>EN 597-2, Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 2 Ignition source match flame equivalent.<br>EN 1021-1, Furniture - Assessment of the ignitability of upholstered furniture - Part 1: Ignition source smouldering cigarette.<br>EN 1021-2, Furniture - Assessment of the ignitability of upholstered furniture - Part 2: Ignition source match flame equivalent.<br>EN 13501-1, Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests. | |

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| | | EN 13823, Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.<br>EN 14390, Fire test - Large-scale room reference test for surface products.<br>EN 15102, Decorative wallcoverings - Roll form.<br>EN ISO 1182, Reaction to fire tests for products - Non-combustibility test.<br>EN ISO 1716, Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value).<br>EN ISO 6940, Textile fabrics - Burning behaviour - Determination of ease of ignition of vertically oriented specimens.<br>EN ISO 6941, Textile fabrics - Burning behaviour - Measurement of flame spread properties of vertically oriented specimens.<br>EN ISO 9239-1, Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source.<br>EN ISO 11925-2, Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test.<br>ISO 12952-1, Mattresses - Ignition Source - smouldering cigarette.<br>ISO 12952-2, Mattresses - Ignition Source - match flame.<br>FM 4880, Approval Standard for Class 1 Fire Rating of Building Panels or Interior Finish Materials.<br>FM 4924, Duct and Pipe Insulation.<br>NFPA 253, Standard Method of Test for Critical Radiant Flux of Floor Covering Systems Using a Radiant Heat Energy Source.<br>NFPA 265, Standard Methods of Fire Tests for Evaluating Room Fire Growth Contribution of Textile or Expanded Vinyl Wall Coverings on Full Height Panels and Walls.<br>NFPA 274, Standard Test Method to Evaluate Fire Performance Characteristics of Pipe Insulation.<br>NFPA 275, Standard Method of Fire Tests for the Evaluation of Thermal Barriers.<br>NFPA 286, Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.<br>NFPA 701, Standard Methods of Fire Tests for Flame Propagation of Textiles and Films. | |

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| | | NFPA 703, Standard for Fire-Retardant-Treated Wood and Fire-Retardant Coatings for Building Materials.<br>UL 1040, Standard for Fire Test of Insulated Wall Construction.<br>UL 1715, Standard for Fire Test of Interior Finish Material.<br>UL 1975, Standard for Fire Tests for Foamed Plastics Used for Decorative Purposes. | |
| **3. Façade and exterior wall covering systems** | Non-loadbearing exterior wall cladding system – as a material / as an assembly (including metal composite panels (MCM), aluminum composite panels (ACP), EIFS/ETICS, polycarbonate external wall and façade system (PEWFS), sandwich panels, GRC/GRFC & GRP panels, photovoltaic (PV) panels - as facade system to be installed on façade of any buildings, Porcelain tiles, Terracotta tiles, Calcium silicate board, Cement board).<br><br>Subcomponents (including insulation for external façade cladding, panel joint sealants, gaskets, EPDM, backer rods, vapour barriers (damp proofing)).<br><br>Cavity fire barrier (between inner face of exterior wall cladding and substrate), vertical seal gaps between curtain wall mullion and | ANSI/UL 723, Standard for Test for Surface Burning Characteristics of Building Materials.<br>ASFP TGD-19, Fire Resistance Test for 'Open-State' Cavity Barriers used in the external envelope or fabric of buildings.<br>ASTM D1929, Standard Test Method for Determining Ignition Temperature of Plastics.<br>ASTM D3841, Standard Specification for Glass-Fiber-Reinforced Polyester Plastic Panels.<br>ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.<br>ASTM E2307, Standard Test Method for Determining Fire Resistance of Perimeter Fire Barriers Using Intermediate-Scale, Multi-story Test Apparatus.<br>BR 135, Fire performance of external thermal insulation for walls of multistory buildings.<br>BS 476-4, Fire tests on building materials and structures. Non-combustibility test for materials.<br>BS 8414-1, Fire performance of external cladding systems. Test method for non-loadbearing external cladding systems fixed to, and supported by, a masonry substrate.<br>BS 8414-2, Fire performance of external cladding systems. Test method for non-loadbearing external cladding systems fixed to, and supported by, a structural steel frame.<br>EN 1364-3, Fire resistance tests for non-loadbearing elements - Part 3 Curtain walling - Full configuration (complete assembly).<br>EN 1364-4, Fire resistance tests for non-loadbearing elements - Part 4 Curtain walling - Part configuration.<br>EN 13501-1, Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.<br>EN 13823, Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.<br>FM 4880, Approval Standard for Class 1 Fire Rating of Building Panels or Interior Finish Materials. | |

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| | internal fire resistant rated wall & Perimeter fire barrier systems. | ISO 1182, Reaction to fire tests for products — Non-combustibility test.<br>ISO 1716, Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value).<br>ISO 9239-1, Reaction to fire tests for floorings — Part 1: Determination of the burning behavior using a radiant heat source.<br>ISO 11925-2, Reaction to fire tests — Ignitability of products subjected to direct impingement of flame — Part 2: Single-flame source test.<br>ISO 13785-2, Reaction-to-fire tests for façades — Part 2: Large-scale test.<br>NFPA 268, Standard Test Method for Determining Ignitability of Exterior Wall Assemblies Using a Radiant Heat Energy Source.<br>NFPA 285, Standard Fire Test Method for Evaluation of Fire Propagation Characteristics of Exterior Wall Assemblies Containing Combustible Components.<br>SASO 2752, Aluminum composite panel for external cladding and internal finish. | |
| **4. Fire performance of roof assembly and roof coverings** | Roofing coverings / assembly systems (including organic or glass fiber mat shingles, metal composite panels (MCM), aluminum composite panels (ACP), sandwich panels, photovoltaic (PV) panels, single ply membrane, plastic skylights, roof deck constructions)<br><br>Subcomponents (including thermal insulation, vapor barrier, support system)<br><br>Plastic skylights on roofing assemblies. | ANSI/UL 790, Standard for Test Methods for Fire Tests of Roof Coverings.<br>ANSI/UL 1256, Standard for Fire Test of Roof Deck Constructions.<br>ASTM E84, Standard Test Method for Surface Burning Characteristics of Building Materials.<br>ASTM E108, Standard Test Methods for Fire Tests of Roof Coverings.<br>BS 476-3, Fire tests on building materials and structures. Classification and method of test for external fire exposure to roofs.<br>BS 476-7, Fire tests on building materials and structures. Method of test to determine the classification of the surface spread of flame of products.<br>CEN/TS 1187, Test methods for external fire exposure to roofs.<br>EN 13501-1, Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.<br>EN 13501-5, Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests. | |

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| | | EN 13823, Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.<br>EN ISO 1182, Reaction to fire tests for products - Non-combustibility test.<br>EN ISO 1716, Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value).<br>EN ISO 11925-2, Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test.<br>FM 4431, Approval Standard for Skylights.<br>FM 4470, Approval Standard for 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.<br>FM 4471, Approval Standard for Class 1 Panel Roofs.<br>NFPA 276, Roof Assemblies. | |
| **5. Safety glazing** | Safety glazing (including non-fire resistant and fire-resistant rated partition walls, glazing in door assemblies, glazed curtain wall system, other non-loadbearing external wall with glazing, shower enclosures) | ANSI Z97.1, Safety Glazing Materials Used in Buildings – Safety Performance Specifications and Methods of Test.<br>CPSC 16 CFR 1201, Safety standard for architectural glazing materials.<br>EN 12600, Glass in building - Pendulum test - Impact test method and classification for flat glass.<br>EN 14428, Shower enclosures - Functional requirements and test methods.<br>ISO 12543-2, Safety Glazing. | |
| **6. Ventilation and smoke control systems** | Ventilation – Factory-made air ducts and air connectors, fire resistive metallic HVAC duct systems. | ANSI/UL 10D, Standard for Fire Tests of Fire-Protective Curtain Assemblies.<br>ANSI/UL 181, Standard for Factory-Made Air Ducts and Air Connectors.<br>ANSI/UL 555, Standard for Fire Dampers.<br>ANSI/UL 555C, Standard for Ceiling Dampers.<br>ANSI/UL 555S, Standard for Smoke Dampers.<br>ANSI/UL 586, Standard for High-Efficiency, Particulate, Air Filter Units.<br>ANSI/UL 705, Standard for Power Ventilators.<br>ANSI/CAN/UL 793, Automatically Operated Roof Vents for Smoke and Heat.<br>ANSI/UL 864, Standard for Control Units and Accessories for Fire Alarm Systems. | |

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| | Smoke control and smoke management systems – mechanical (including fire dampers, smoke dampers, ceiling dampers, combination dampers, natural smoke and heat exhaust ventilators, mechanical extract fans, jet fans, powered smoke and heat exhaust ventilators, ventilation ducts, smoke extraction ducts, smoke barriers (smoke curtains), fire curtains).<br><br>Smoke control and smoke management systems – electrical (including smoke control panels, power supplies).<br><br>Kitchen extract ducts.<br><br>Air cleaners, air filters, grease filters. | ANSI/UL 867, Standard for Electrostatic Air Cleaners.<br>ANSI/UL 900, Standard for Air Filter Units.<br>ANSI/UL 1046, Standard for Grease Filters for Exhaust Ducts.<br>ANSI/UL 1978, Standard for Grease Ducts.<br>ASTM E2336, Standard Test Methods for Fire Resistive Grease Duct Enclosure Systems.<br>ASTM E2816, Standard Test Methods for Fire Resistive Metallic HVAC Duct Systems.<br>BS 476-24, Fire tests on building materials and structures - Method for determination of the fire resistance of ventilation ducts.<br>BS 8524-1, Active fire curtain barrier assemblies. Specification.<br>EN 1364-1, Fire resistance tests for non-loadbearing elements - Part 1 Walls.<br>EN 1366-1, Fire resistance tests for service installations - Part 1: Ventilation ducts.<br>EN 1366-2, Fire resistance tests for service installations - Part 2: Fire dampers.<br>EN 1366-8, Fire resistance tests for service installations - Part 8: Smoke extraction ducts.<br>EN 1366-9, Fire resistance tests for service installations - Part 9: Single compartment smoke extraction ducts.<br>EN 1366-10, Fire resistance tests for service installations - Part 10: Smoke control dampers.<br>EN 12101-1, Smoke and heat control systems - Part 1: Specification for smoke barriers.<br>EN 12101-2, Smoke and heat control systems - Part 2: Natural smoke and heat exhaust ventilators.<br>EN 12101-3, Smoke and heat control systems - Part 3: Specification for powered smoke and heat control ventilators (Fans).<br>EN 12101-7, Smoke and heat control systems - Part 7: Smoke duct sections.<br>EN 12101-8, Smoke and heat control systems - Part 8: Smoke control dampers.<br>EN 12101-10, Smoke and heat control systems - Part 10: Power supplies.<br>EN 13501-1, Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests.<br>EN 13501-3, Fire classification of construction products and building elements - Part 3: Classification using data from fire resistance tests on products and elements used in building service installations: fire resisting ducts and fire dampers. | |

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| | | EN 13501-4, Fire classification of construction products and building elements - Part 4: Classification using data from fire resistance tests on components of smoke control systems.<br>EN 13823, Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item.<br>EN ISO 13350, Jet Fans.<br>FM 4430, Smoke and Heat Vents.<br>ISO 6944-1, Fire containment — Elements of building construction — Part 1: Ventilation ducts<br>ISO 6944-2, Fire containment — Elements of building construction — Part 2: Kitchen extract ducts.<br>ISO 21927-1, Smoke and heat control systems — Part 1: Specification for smoke barriers.<br>ISO 21927-2, Smoke and heat control systems — Part 2: Specifications for natural smoke and heat exhaust ventilators.<br>ISO 21927-7, Smoke and heat control systems — Part 7: Smoke ducts sections.<br>ISO 21927-8, Smoke and heat control systems — Part 8: Smoke control dampers.<br>ISO 21927-9, Smoke and heat control systems — Part 9: Specification for control equipment.<br>ISO 21927-10, Smoke and heat control systems — Part 10: Specification for power output devices.<br>UL 762, Outline of Investigation for Power Roof Ventilators for Restaurant Exhaust Appliances.<br>UL 2221, Standard for Grease Duct Enclosure Assemblies. | |
| **7. Cables** | Fire resistant cables<br><br>Reaction to fire of cables | BS 6387, Test method for resistance to fire of cables required to maintain circuit integrity under fire conditions.<br>BS 7629-1, Electric cables - Part 1 Specification for 300/500 V fire resistant, screened, fixed installation cables having low emission of smoke and corrosive gases when affected by fire. Multicore cables.<br>BS 8434-2, Methods of test for assessment of the fire integrity of electric cables – Part 2 Test for unprotected small cables for use in emergency circuits. BS EN 50200 with a 930° flame and with water spray.<br>EN 13501-6, Fire classification of construction products and building elements - Part 6: Classification using data from reaction to fire tests on power, control and communication cables.<br>EN 50200, Method of test for resistance to fire of unprotected small cables for use in emergency circuits. | |

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|---|---|---|---|
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| | | EN 50399, Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test - Test apparatus, procedures, results.<br>EN 60332-1-2, Tests on electric and optical fibre cables under fire conditions - Part 1-2: Test for vertical flame propagation for a single insulated wire or cable - Procedure for 1 kW pre-mixed flame.<br>EN 60332-2-2, Tests on electric and optical fibre cables under fire conditions - Part 2-2: Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame<br>EN 60754-2, Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity.<br>EN 61034-2, Measurement of smoke density of cables burning under defined conditions Part 2: Test procedure and requirements.<br>EN ISO 1716, Reaction to fire tests for products — Determination of the gross heat of combustion (calorific value).<br>IEC 60331-1, Tests for electric cables under fire conditions - Circuit integrity - Part 1: Test method for fire with shock at a temperature of at least 830 °C for cables of rated voltage up to and including 0,6/1,0 kV and with an overall diameter exceeding 20 mm.<br>IEC 60331-2, Tests for electric cables under fire conditions - Circuit integrity - Part 2: Test method for fire with shock at a temperature of at least 830 °C for cables of rated voltage up to and including 0,6/1,0 kV and with an overall diameter not exceeding 20 mm.<br>IEC 60331-3, Tests for electric cables under fire conditions - Circuit integrity - Part 3: Test method for fire with shock at a temperature of at least 830 °C for cables of rated voltage up to and including 0,6/1,0 kV tested in a metal enclosure.<br>IEC 60332-2-2, Tests on electric and optical fibre cables under fire conditions - Part 2-2: Test for vertical flame propagation for a single small insulated wire or cable - Procedure for diffusion flame.<br>IEC 60754-2, Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity.<br>IEC 61034-2, Measurement of smoke density of cables burning under defined conditions - Part 2: Test procedure and requirements. | |

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| | | UL 1666, Standard for Test for Flame Propagation Height of Electrical and Optical-Fiber Cables Installed Vertically in Shafts.<br>UL 1685, Standard for Vertical-Tray Fire-Propagation and Smoke-Release Test for Electrical and Optical-Fiber Cables.<br>UL 1724, Outline of Investigation for Fire Tests for Electrical Circuit Protective Systems.<br>UL 2196, Standard for Tests for Fire Resistive Cables. | |
| **8. Building hardware and systems for fire/smoke door assemblies and door on escape routes** | Hardware for Electric Door, Panic & Fire Exit Hardware, Door Closers, Hinges, Locksets, Cylinder, Lever Handle, Door Coordinator devices. | ANSI/BHMA A156.3, Exit Devices.<br>ANSI/BHMA A156.19, Power Operated Swinging Doors.<br>ANSI/UL 294, Standard for Access Control System Units.<br>ANSI/UL 305, Standard for Panic Hardware.<br>EN 179, Building hardware - Emergency exit devices operated by a lever handle or push pad, for use on escape routes. Requirements and test methods.<br>EN 1125, Building hardware - Panic exit devices operated by a horizontal bar, for use on escape routes. Requirements and test methods.<br>EN 1154, Building hardware - Controlled door closing devices. Requirements and test methods.<br>EN 1155, Building hardware - Electrically powered hold-open devices for swing doors - Requirements and test methods.<br>EN 1158, Building hardware - Door coordinator devices - Requirements and test methods.<br>EN 1303, Building hardware - Cylinders for locks - Requirements and test methods.<br>EN 1906, Building hardware - Lever handles and knob furniture - Requirements and test methods.<br>EN 1935, Building hardware - Single-axis hinges - Requirements and test methods.<br>EN 12051, Building hardware - Door and window bolts - Requirements and test methods.<br>EN 12209, Building hardware - Mechanically operated locks and locking plates - Requirements and test methods.<br>EN 13637, Building hardware - Electrically controlled exit systems for use on escape routes - Requirements and test methods.<br>EN 14637, Building hardware - Electrically controlled hold-open systems for fire/smoke door assemblies - Requirements, test methods, application and maintenance. | |

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| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | EN 14846, Building hardware - Locks and latches - Electromechanically operated locks and striking plates - Requirements and test methods.<br>EN 15684, Building hardware - Mechatronic cylinders - Requirements and test methods. | |
| **9. Fire Extinguishing Equipment and Media** | Fire Extinguishers – portable or mobile, Extinguishing Media, Fire Blankets, Handheld or mobile devices utilizing extinguishing media. | ANSI/UL 8, Water Based Agent Fire Extinguishers.<br>ANSI/UL 154, Carbon-Dioxide Fire Extinguishers.<br>ANSI/UL 299, Dry Chemical Fire Extinguishers.<br>ANSI/UL 626, Water Fire Extinguishers.<br>ANSI/UL 711, Rating and Fire Testing of Fire Extinguishers.<br>ANSI/UL 2129, Halocarbon Clean Agent Fire Extinguishers.<br>BS 6165, Specification for small disposable fire extinguishers of the aerosol type.<br>BS 7944, Type 1 heavy duty fire blankets and type 2 heavy duty heat protective blankets.<br>EN 3-7, Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods.<br>EN 3-8, Portable fire extinguishers - Part 8: Requirements for the construction, pressure resistance and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar, which comply with the requirements of EN 3-7.<br>EN 3-9, Portable fire extinguishers - Part 9: Additional requirements to EN 3-7 for pressure resistance of CO2 extinguishers.<br>EN 615, Fire protection - Fire extinguishing media - Specifications for powders (other than class D powders).<br>EN 1568-1, Fire extinguishing media - Foam concentrates - Part 1: Specification for medium expansion foam concentrates for surface application to water-immiscible liquids.<br>EN 1568-2, Fire extinguishing media - Foam concentrates - Part 2: Specification for high expansion foam concentrates for surface application to water-immiscible liquids.<br>EN 1568-3, Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for surface application to water-immiscible liquids.<br>EN 1568-4, Fire extinguishing media - Foam concentrates - Part 4: Specification for low expansion foam concentrates for surface application to water-miscible liquids. | |

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|---|---|

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|---|---|---|---|
| | | EN 1866-1, Mobile fire extinguishers - Part 1: Characteristics, performance and test methods.<br>EN 1866-2, Mobile fire extinguishers - Part 2: Requirements for the construction, pressure resistance and mechanical tests for extinguishers, with a maximum allowable pressure equal to or lower than 30 bar, which comply with the requirements of EN 1866-1.<br>EN 1866-3, Mobile fire extinguishers - Part 3: Requirements for the assembly, construction and pressure resistance of CO2 extinguishers which comply with the requirements of EN 1866-1.<br>EN 1869, Fire blankets.<br>EN 16856, Portable aerosol dispensers for fire extinguishing purposes.<br>ISO 7165, Fire fighting — Portable fire extinguishers — Performance and construction.<br>ISO 11601, Fire fighting — Wheeled fire extinguishers — Performance and construction.<br>NFPA 18, Standard on Wetting Agents. | |
| **10. Emergency Lighting and Exit Signs** | Self-Contained Emergency Lighting Units, Monitored Type Emergency Lighting System, Central Battery Emergency Lighting Systems, Emergency Lighting Luminaire, Exit signs | ANSI/UL 924, Standard for Emergency Lighting and Power Equipment.<br>ANSI/UL 1994, Standard for Luminous Egress Path Marking Systems.<br>EN 50171, Central safety power supply systems.<br>EN 60598-2-22, Luminaires - Part 2-22: Particular requirements - Luminaires for emergency lighting.<br>EN 62034, Automatic test systems for battery powered emergency escape lighting.<br>ISO 3864-1, Graphical symbols — Safety colours and safety signs — Part 1: Design principles for safety signs and safety markings.<br>ISO 3864-4, Graphical symbols — Safety colours and safety signs — Part 4: Colorimetric and photometric properties of safety sign materials.<br>ISO 7010, Graphical symbols — Safety colours and safety signs — Registered safety signs. | |
| **11. Fire Detection and Fire Alarm Systems** | Smoke Detectors, Heat Detectors, Air Sampling Type Detectors, Flame Detectors, Multi-Sensor Fire Detectors, Line Type Detectors, Gas Detectors, Door Holders, Video Image Detectors, Carbon Monoxide Detectors, Manual Call Points, Duct | ANSI/UL 38, Standard for Manual Signaling Boxes for Fire Alarm Systems.<br>ANSI/UL 268, Standard for Smoke Detectors for Fire Alarm Signaling Systems.<br>ANSI/UL 268A, Standard for Smoke Detectors for Duct Application.<br>ANSI/UL 464, Audible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.<br>ANSI/UL 521, Standard for Heat Detectors for Fire Protective Signaling Systems.<br>ANSI/UL 864, Standard for Control Units and Accessories for Fire Alarm Systems.<br>ANSI/UL 985, Standard for Household Fire Warning System Units. | |

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|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | Detectors, Audible Notification Devices, Visible Notification Devices, FACP (Fire Alarm Control Panel) Control Units/Repeater Panels/ Mimic Panels, Wireless, Radio linked Fire Detection and Alarm System, Line Isolators, Input/ output devices, Compatibility Testing of Components, Routing Equipment, Power Supply Equipment, Emergency Voice Evacuation Systems, Speakers, Amplifiers, 2-Way Telephone System. | ANSI/UL 1480, Speakers for Fire Alarm and Signaling Systems, Including Accessories.<br>ANSI/UL 1638, Visible Signaling Devices for Fire Alarm and Signaling Systems, Including Accessories.<br>ANSI/UL 1971, Standard for Signaling Devices for the Hearing Impaired.<br>ANSI/UL 2572, Standard for Mass Notification System.<br>BS 5446-2, Fire detection and fire alarm devices for dwellings - Specification for heat alarms.<br>EN 54-2, Fire detection and fire alarm systems - Control and indicating equipment.<br>EN 54-3, Fire detection and fire alarm systems - Fire alarm devices – Sounders.<br>EN 54-4, Fire detection and fire alarm systems - Power supply equipment.<br>EN 54-5, Fire detection and fire alarm systems - Heat detectors - Point heat detectors.<br>EN 54-7, Fire detection and fire alarm systems - Smoke detectors - Point smoke detectors that operate using scattered light, transmitted light or ionization.<br>EN 54-10, Fire detection and fire alarm systems - Flame detectors - Point detectors.<br>EN 54-11, Fire detection and fire alarm systems - Manual call points.<br>EN 54-12, Fire detection and fire alarm systems - Smoke detectors - Line detectors using an optical light beam.<br>EN 54-13, Fire detection and fire alarm systems - Compatibility assessment of system components.<br>EN 54-16, Fire detection and fire alarm systems - Voice alarm control and indicating equipment.<br>EN 54-17, Fire detection and fire alarm systems - Short-circuit isolators.<br>EN 54-18, Fire detection and fire alarm systems - Input/output devices.<br>EN 54-20, Fire detection and fire alarm systems - Aspirating smoke detectors.<br>EN 54-21, Fire detection and fire alarm systems - Alarm transmission and fault warning routing equipment.<br>EN 54-22, Fire detection and fire alarm systems. Resettable line-type heat detectors.<br>EN 54-23, Fire detection and fire alarm systems - Fire alarm devices - Visual alarm devices.<br>EN 54-24, Fire detection and fire alarm systems - Components of voice alarm systems – Loudspeakers.<br>EN 54-25, Fire detection and fire alarm systems - Components using radio links.<br>EN 54-26, Fire detection and fire alarm systems - Carbon monoxide detectors - Point detectors.<br>EN 54-27, Fire detection and fire alarms systems - Duct smoke detectors. | |

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| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | EN 54-28, Fire detection and fire alarm system - Non-resettable line-type heat detectors.<br>EN 54-29, Fire detection and fire alarm systems - Multi-sensor fire detectors - Point detectors using a combination of smoke and heat sensors.<br>EN 54-30, Fire detection and fire alarm systems - Multi-sensor fire detectors - Point detectors using a combination of carbon monoxide and heat sensors.<br>EN 54-31, Fire detection and fire alarm system - Multi-sensor fire detectors - Point detectors using a combination of smoke, carbon monoxide and optionally heat sensors.<br>EN 14604, Smoke alarm devices (Domestic).<br>EN 50194-1, Electrical apparatus for the detection of flammable gases in household premises - Part 1: Test methods and performance requirements<br>EN 50402, Electrical apparatus for the detection and measurement of combustible or toxic gases or vapors or of oxygen - Requirements on the functional safety of gas detection systems.<br>EN 60079-29-1, Explosive atmospheres - Part 29-1: Gas detectors - Performance requirements of detectors for flammable gases.<br>EN 60079-29-4, Explosive atmospheres - Part 29-4: Gas detectors - Performance requirements of open path detectors for flammable gases.<br>ESL 54-57, Standard for verifying wireless features of interconnected smoke and heat detectors with controller<br>FM 3010, Fire alarm signaling systems.<br>FM 3150, Audible notification appliances for automatic fire alarm signaling.<br>FM 3155, Examination Standard for Public Mode Visible Signaling Appliances for Automatic Fire Alarm Signaling.<br>FM 3210, Heat detectors for automatic fire alarm signaling.<br>FM 3230, Smoke actuated detectors for automatic alarm signaling.<br>FM 3232, Video Image Fire Smoke Detectors for Automatic Fire Alarm Signaling.<br>FM 3260, Radiant energy-sensing fire detectors for automatic fire alarm signaling.<br>FM 4121, Fire and Smoke Door Holder and/or Release Devices.<br>FM 6325, Performance Requirements for Open Path Combustible Gas Detectors. | |

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| | | FM 6340, Toxic Gas and Oxygen Depletion Detectors.<br>ISO 7240-2, Fire detection and alarm systems — Fire detection control and indicating equipment.<br>ISO 7240-3, Fire detection and alarm systems — Part 3: Audible alarm devices.<br>ISO 7240-4, Fire detection and alarm systems — Power supply equipment.<br>ISO 7240-5, Fire detection and fire alarm systems — Point type heat detectors.<br>ISO 7240-6, Fire detection and alarm systems — Carbon monoxide fire detectors using electro-chemical cells.<br>ISO 7240-7, Fire detection and alarm systems — Point-type smoke detectors using scattered light, transmitted light or ionization.<br>ISO 7240-8, Fire detection and alarm systems — Point-type fire detectors using a carbon monoxide sensor in combination with a heat sensor.<br>ISO 7240-10, Fire detection and alarm systems — Point-type flame detectors.<br>ISO 7240-11, Fire detection and alarm systems — Manual call points.<br>ISO 7240-12, Fire detection and alarm systems — Line type smoke detectors using a transmitted optical beam.<br>ISO 7240-13, Fire detection and alarm systems — Compatibility assessment of system components.<br>ISO 7240-15, Fire detection and alarm systems — Point type fire detectors using scattered light, transmitted light or ionization sensors in combination with a heat sensor.<br>ISO 7240-16, Fire detection and alarm systems — Sound system control and indicating equipment.<br>ISO 7240-20, Fire detection and alarm systems — Aspirating smoke detectors.<br>ISO 7240-21, Fire detection and alarm systems — Routing equipment.<br>ISO 7240-22, Fire detection and alarm systems — Smoke-detection equipment for ducts.<br>ISO 7240-23, Fire detection and alarm systems — Visual alarm devices.<br>ISO 7240-24, Fire detection and fire alarm systems — Fire alarm loudspeakers.<br>ISO 7240-25, Fire detection and fire alarm systems — Components using radio transmission paths.<br>ISO 19292, Ships and marine technology — Lifesaving and fire protection — Point-type resettable flame detectors for ships.<br>IEC 60079-0, Explosive atmospheres - Part 0: Equipment - General requirements. | |

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|---|---|

| Product Category | Items, Materials or Products | Standards | Remarks *(if any)* |
|---|---|---|---|
| | | IEC 60079-1, Explosive atmospheres - Part 1: Equipment protection by flameproof enclosures "d".<br>IEC 60079-11, Explosive atmospheres - Part 11: Equipment protection by intrinsic safety "i".<br>UL 228, Standard for Door Closers-Holders, With or Without Integral Smoke Detectors.<br>UL 268B Outline of Investigation for Video Image Smoke Detectors. | |
| **12. Fire Protection Systems** | Fixed firefighting systems (water, foam, gas, powder, aerosol) and components, such as: Fire Pumps (pumps, electric motor, diesel engine, fire pump controllers, fire pump assembly), Gas Extinguishing Control Panels, Manual Triggering and Stop Devices, Sprinklers, Fire hoses, Firefighting nozzles, Firefighting monitors, Fire hose cabinets, Water mist systems, Underground pipes and fittings, Aboveground pipes and fittings, Valves, Hangers, Fittings, Water motor gong, Wet chemical systems, Dry chemical systems, Inert gas clean agent systems, Chemical gas clean agent systems, Carbon dioxide extinguishing system, Foam systems, Foam concentrates, Deluge/Pre-action system, Yard hydrant system, Heavy duty mobile equipment protection system, Breeching inlet, Powdered and condensed aerosol systems. | AIS-135, Fire Detection and Alarm System (FDAS) & Fire Detection and Suppression Systems (FDSS) for Buses.<br>ANSI/AWWA D100, Standard for Welded Carbon Steel Tanks for Water Storage.<br>ANSI/AWWA D102, Standard for Coating Steel Water-Storage Tanks.<br>ANSI/AWWA D103, Standard for Factory-Coated Bolted Carbon Steel Tanks for Water Storage.<br>ANSI/UL 19, Standard for Lined Fire Hose and Hose Assemblies.<br>ANSI/UL 47, Standard for Semiautomatic fire hose storage devices.<br>ANSI/UL 162, Standard for Foam Equipment and Liquid Concentrates.<br>ANSI/UL 193, Standard for Alarm Valves for Fire-Protection Service<br>ANSI/UL 199, Standard for Automatic sprinklers for fire-protection service.<br>ANSI/UL 203, Standard for Pipe Hanger Equipment for Fire Protection Service.<br>ANSI/CAN/UL 213, Standard for Rubber Gasketed Fittings for Fire Protection Service.<br>ANSI/UL 218, Fire pump controllers.<br>ANSI/UL 219, Standard for Lined Fire Hose for Interior Standpipes.<br>ANSI/CAN/UL 258, Standard for Shutoff Valves for Trim and Drain Purposes for Fire Protection.<br>ANSI/UL 260, Standard for Dry Pipe and Deluge Valves for Fire Protection Service.<br>ANSI/CAN/UL/ULC 300, Standard for Fire Testing of Fire Extinguishing Systems for Protection of Commercial Cooking Equipment.<br>ANSI/UL 312, Standard for Check Valves for Fire Protection Service.<br>ANSI/UL 346, Standard for Waterflow Indicators for Fire Protective Signaling Systems.<br>ANSI/UL 401, Portable Spray Hose Nozzles for Fire-Protection Service.<br>ANSI/UL 405, Standard for Fire Department Connection Devices<br>ANSI/CAN/UL 448, Standard for Centrifugal Stationary Pumps for Fire-Protection Service. | |

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| | | ANSI/UL 448B, Standard for Residential fire pumps intended for one-and two-family dwelling and manufactured homes.<br>ANSI/UL 448C, Standard for stationery, rotary-type, positive-displacement pumps for fire-protection service.<br>ANSI/UL 668, Standard for Hose Valves for Fire Protection Service.<br>ANSI/UL 789, Standard for Indicator Posts for Fire-Protection Service.<br>ANSI/UL 852, Standard for Metallic Sprinkler Pipe for Fire Protection Service<br>ANSI/UL 864, Standard for Control Units and Accessories for Fire Alarm Systems.<br>ANSI/UL 1004-5, Standard for Fire pump motors.<br>ANSI/UL 1247, Diesel engines for driving stationary fire pumps.<br>ANSI/CAN/UL/ULC 1254, Standard for Pre-Engineered and Engineered Dry and Pre-Engineered Wet Chemical Fire Extinguishing System Units.<br>ANSI/UL 1468, Standard for Direct Acting Pressure Reducing and Pressure Restricting Valves.<br>ANSI/UL 1478, Standard for Fire Pump Relief Valves.<br>ANSI/UL 1486, Standard for Quick Opening Devices for Dry Pipe Valves for Fire Protection Service.<br>ANSI/UL 1739, Standard for Pilot-Operated Pressure-Control Valves for Fire Protection Service.<br>ANSI/CAN/UL 1821, Standard for Thermoplastic Sprinkler Pipe and Fittings for Fire Protection Service.<br>ANSI/CAN/UL/ULC 2127, Standard for Inert Gas Clean Agent Extinguishing System Units.<br>ANSI/CAN/UL/ULC 2166, Standard for Halocarbon Clean Agent Extinguishing System Units.<br>ANSI/UL 2167, Standard for Water Mist Nozzles for Fire-Protection Service.<br>ANSI/UL 2351, Standard for Spray nozzles for fire-protection service.<br>ANSI/UL 2443, Standard for Flexible Sprinkler Hose with Fittings for Fire Protection Service.<br>ANSI/UL 2775, Standard for Fixed Condensed Aerosol Extinguishing System Units.<br>ASME BPVC.X - BPVC Section X-Fiber-Reinforced Plastic Pressure Vessels.<br>ASTM A53, Standard Specification for Pipe, Steel, Black and Hot-Dipped, Zinc-Coated, Welded and Seamless<br>BS 336, Specification for fire hose coupling and ancillary equipment.<br>BS 5041-1, Fire hydrant systems equipment. Part 1: Specification for landing valves for wet risers. | |

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| | | BS 5041-2, Fire hydrant systems equipment. Part 2: Specification for landing valves for dry risers.<br>BS 5041-3, Fire hydrant systems equipment. Part 3: Specification for inlet breechings for dry riser inlets.<br>BS 5041-4, Fire hydrant systems equipment. Part 4: Specification for boxes for landing valves for dry risers.<br>BS 5041-5, Fire hydrant systems equipment. Part 5: Specification for boxes for foam inlets and dry riser inlets.<br>BS 5154, Specification for Copper alloy globe, globe stop and check, check and Gate valves.<br>BS 9252, Components for residential sprinkler systems. Specification and test methods for residential sprinklers.<br>EN 593, Industrial vales. Metallic butterfly valves for general purposes.<br>EN 671-1, Fixed firefighting systems. Hose systems. Part 1: Hose reels with semi-rigid hose.<br>EN 671-2, Fixed firefighting systems. Hose systems. Part 2: Hose systems with lay-flat hose.<br>EN 694, Fire-fighting hoses. Semi-rigid hoses for fixed systems.<br>EN 1074-1, Valves for water supply. Fitness for purpose requirements and appropriate verification tests. Part 1: General requirements.<br>EN 1074-2, Valves for water supply. Fitness for purpose requirements and appropriate verification tests. Part 2: Isolating valves.<br>EN 1074-6, Valves for water supply - Fitness for purpose requirements and appropriate verification tests - Part 6: Hydrants.<br>EN 1568-1, Fire extinguishing media - Foam concentrates - Part 1: Specification for medium expansion foam concentrates for surface application to water-immiscible liquids.<br>EN 1568-2, Fire extinguishing media - Foam concentrates - Part 2: Specification for high expansion foam concentrates for surface application to water-immiscible liquids.<br>EN 1568-3, Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for surface application to water-immiscible liquids.<br>EN 1568-4, Fire extinguishing media - Foam concentrates - Part 4: Specification for low expansion foam concentrates for surface application to water-miscible liquids. | |

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| | | EN 12094-1, Fixed firefighting systems. Components for gas extinguishing systems. Part 1: Requirements and test methods for electrical automatic control and delay devices.<br>EN 12094-3, Fixed firefighting systems. Components for gas extinguishing systems. Part 3: Requirements and test methods for manual triggering and stop devices.<br>EN 12094-13, Fixed firefighting systems. Components for gas extinguishing systems. Part 13: Requirements and test methods for check valves and non-return valves.<br>EN 12259-1, Fixed firefighting systems. Components for sprinkler and water spray systems. Part 1: Sprinklers.<br>EN 12259-2, Fixed firefighting system. Components for sprinkler and water spray systems. Part 2: Wet alarm valve assemblies.<br>EN 12259-3, Fixed firefighting system. Components for sprinkler and water spray systems. Part 3: Dry alarm valve assemblies.<br>EN 12259-4, Fixed firefighting systems. Components for sprinkler and water spray systems - Part 4: Water motor alarms.<br>EN 12259-5, Fixed firefighting systems. Components for sprinkler and water spray systems - Part 5: Water flow detector.<br>EN 12259-9, Fixed firefighting systems. Components for sprinkler and water spray systems. Part 9: Deluge alarm valves.<br>EN 12259-12, Fixed firefighting systems – Components for sprinkler and water spray systems – Part 12: Pumps.<br>EN 12259-14, Fixed firefighting systems. Components for sprinkler and water spray systems. Sprinklers - Part 14: Sprinklers for residential applications.<br>EN 13121-2, GRP tanks and vessels for use above ground - Part 2: Composite materials - Chemical resistance<br>EN 13121-3, GRP tanks and vessels for use above ground - Part 3: Design and workmanship<br>EN 13565-1, Fixed firefighting systems - Foam systems - Part 1: Requirements and test methods for components<br>EN 14384, Pillar fire hydrants | |

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|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | EN 14540, Fire-fighting hoses. Non-percolating lay-flat hoses for fixed systems.<br>EN 15276-1, Fixed firefighting systems - Condensed aerosol extinguishing systems - Part 1: Requirements and test methods for components.<br>FM 1011/1012/1013, Examination Standard for Deluge and Preaction Sprinkler Systems.<br>FM 1020, Examination Standard for Automatic Water Control Valves.<br>FM 1021, Examination Standard for Dry Pipe Valves.<br>FM 1031, Approval Standard for Quick Opening Devices (Accelerators and Exhausters) for Dry Pipe Valves.<br>FM 1041, Approval Standard for Alarm Check Valves.<br>FM 1042, Approval Standard for Vane-Type Waterflow Alarm Indicators.<br>FM 1045, Approval Standard for Waterflow Detector Check Valves.<br>FM 1055, Approval Standard for Water Motor Gong.<br>FM 1111, Approval Standard for Post Indicator Valve assembly.<br>FM 1112, Examination Standard for Indicating Valves (Butterfly or Ball Type).<br>FM 1120, 1130, Approval Standard for Fire Service Water Control Valves (OS & Y and NRS Type Gate Valves).<br>FM 1140, Approval Standard for Quick Opening Valves 1⁄4 Inch Through 2 Inch Nominal Size.<br>FM 1210, Approval Standard for Swing Check Valves.<br>FM 1310, Approval standard for Centrifugal Fire Pumps (Multi-Stage Multi Outlet Type).<br>FM 1311, Examination standard for centrifugal fire pumps split-case type (Axial or Radial).<br>FM 1312, Examination standard for Centrifugal fire pumps (Vertical shaft, Turbine type).<br>FM 1313, Examination standard for Positive displacement fire pumps (Rotary gear type).<br>FM 1319, Examination standard for Centrifugal fire pumps (Horizontal, end suction type).<br>FM 1321/1323, Approval standard for Controllers for electric motor driven and diesel engine driven fire pumps.<br>FM 1333, Examination standard for Diesel engine fire pump drivers.<br>FM 1361, Examination Standard for Water Pressure Relief Valves.<br>FM 1362, Approval Standard for Pressure Reducing Valves. | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|

| Product Category | Items, Materials or Products | Standards | Remarks *(if any)* |
|---|---|---|---|
| | | FM 1370, Examination standard for Centrifugal fire pumps (Vertical shaft, Turbine type, Barrel).<br>FM 1421, Approval standard for Fire protection monitor assemblies.<br>FM 1510/1511, Examination Standard for Fire Hydrant (Dry and Wet Barrel Type) for Private Fire Service.<br>FM 1521/1522, Examination Standard for Hose Valves Angle and Straightaway.<br>FM 1613, Approval Standard for Polyethylene (PE) Pipe and Fittings for underground fire protection service.<br>FM 1614, Approval Standard for Fiber Reinforced Composite (FRC) Pipe and Fittings for underground fire protection service.<br>FM 1620, Approval Standard for Pipe joints and anchor fittings for underground fire service mains.<br>FM 1630, Examination Standard for Steel Pipe for Automatic Fire Sprinkler Systems.<br>FM 1631, Approval Standard for Adjustable and Fixed Sprinkler Fittings 1⁄2Inch through 1 Inch Nominal Size.<br>FM 1632, Approval standard for Telescoping Sprinkler Assemblies for Use in Fire Protection Systems for Anechoic Chambers.<br>FM 1637, Approval Standard for Flexible Sprinkler Hose with Threaded End Fittings<br>FM 1920, Approval Standard for Pipe coupling and Fittings for Aboveground Fire Protection Systems.<br>FM 1950, Approval Standard for Seismic Sway Braces for Pipe, Tubing and Conduit.<br>FM 1951, 1952, 1953, Approval Standard for Pipe Hanger Components for Automatic Sprinkler Systems.<br>FM 2000, Approval standard for Automatic Sprinklers for fire protection.<br>FM 2008, Approval standard for Quick response storage sprinklers for fire protection.<br>FM 2030, Approval standard for Residential Automatic Sprinklers for fire protection.<br>FM 2111,2131, Approval standard for Fire Hose Assemblies and Hose couplings.<br>FM 2141, Approval standard for Fire Hose racks and reels.<br>FM 2151, Approval standard for Hose houses and outdoor hose cabinets.<br>FM 4020, Approval Standard for Steel Tanks for Fire Protection.<br>FM 5130, Examination Standard for Foam Extinguishing Systems. | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | | | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | FM 5320, Examination Standard for Dry Chemical Extinguishing Systems.<br>FM 5420, Examination Standard for Carbon Dioxide Extinguishing Systems.<br>FM 5511, Examination standard for Firefighting Nozzles for Use with Hose, Monitor Assemblies and other Firefighting Equipment.<br>FM 5560, Examination standard for Water Mist Systems.<br>FM 5600, Examination Standard for Clean Agent Extinguishing Systems.<br>FM 5970, Examination Standard for Heavy Duty Mobile Equipment Fire Protection Systems.<br>ISO 15779, Condensed aerosol fire extinguishing systems — Requirements and test methods for components and system design, installation and maintenance — General requirements.<br>NFPA 12, Standard on Carbon Dioxide Extinguishing Systems.<br>NFPA 20, Standard for the Installation of Stationary Pumps for Fire Protection.<br>NFPA 2010, Standard for Fixed Aerosol Fire-Extinguishing Systems.<br>SASO 2946 - Annex 8, Buses – Requirements of Construction<br>SP Method 4912, Testing of fire suppression system intended for use in compartment with combustion engine.<br>UAE.S 5041, Fire suppression systems intended for engine compartments of buses and coaches.<br>UL 139, Outline of Investigation for Medium- and High-Expansion Foam-Extinguishing System Equipment and Concentrates.<br>UL 162A, Outline of Investigation for Fixed Water-motor Coupled Pumps for Foam Concentrate Proportioning.<br>UL 194, Standard for Gasketed Joints for Ductile-Iron Pipe and Fittings for Fire Protection Service.<br>UL 246, Standard for Hydrants for Fire Protection Service.<br>UL 262, Standard for Gate Valves for Fire Protection Service.<br>UL 448D, Outline of Investigation for Fire Pump, Driver and Controller Assembly Rating Compatibility.<br>UL 1091, Standard for Butterfly Valves for Fire Protection Service.<br>UL 1285, Pipe and Couplings, Polyvinyl Chloride (PVC), and Oriented Polyvinyl Chloride (PVCO) for Underground Fire Service.<br>UL 1474, Standard for Adjustable Drop Nipples for Sprinkler Systems. | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | | | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | UL 1713, Standard for Pressure Pipe and Couplings, Glass Fiber-Reinforced, for Underground Fire Service.<br>UL 1726, Standard for Automatic Drain Valves for Standpipe Systems.<br>UL 2573, Outline of Investigation for Automatic Air Release, Air/Vacuum and Combination Air Valves for Fire Protection Service.<br>UN Regulation No 107, Annex 13. | |
| **13. Liquefied Petroleum Gas** | LPG cylinders, LPG tanks, Road tankers, Pressure relief device, Pressure regulators, Pipes, Tubing, PE pipes, PE fittings, Flexible hose (pigtail), Valves, Gas leak detector, Gas meters, Gas leak detection control panel, Vaporizers and mixers, Liquid level gauging devices, Overfilling prevention devices. | ANSI LC 1 • CSA 6.26, Fuel Gas Piping Systems Using Corrugated Stainless-Steel Tubing.<br>ANSI/CAN/UL/ULC 25, Meters for Flammable and Combustible Liquids and LP-Gas.<br>ANSI/CAN/UL/ULC 125, Flow Control Valves for Anhydrous Ammonia and LP-Gas.<br>ANSI/CAN/UL 132, Standard for Safety Relief Valves for Anhydrous Ammonia and LP-Gas.<br>ANSI/CAN/UL 144, Standard for LP-Gas Regulators.<br>ANSI/UL 21, Standard for LP-Gas Hose.<br>ANSI/UL 147A, Standard for Nonrefillable (Disposable) Type Fuel Gas Cylinder Assemblies.<br>ANSI/UL 147B Standard for Nonrefillable (Disposable) Type Metal Container Assemblies for Butane.<br>ANSI/UL 565, Standard for Liquid-Level Gauges for Anhydrous Ammonia and LP-Gas.<br>ANSI/UL 569, Standard for Pigtails and Flexible Hose Connectors for LP-Gas.<br>ANSI/UL 644, Standard for Container assemblies for LP Gas.<br>ANSI/UL 1484, Standard for Residential Gas Detectors.<br>ANSI/UL 2075, Gas and Vapor Detectors and Sensors.<br>ANSI/UL 2227, Standard for Overfilling Prevention Devices.<br>API 5L, Specification for Line Pipe.<br>API-ASME Code for Unfired Pressure Vessels for Petroleum Liquids and Gases.<br>ASME B 36.10M, Welded and Seamless Wrought Steel Pipe.<br>ASME Boiler and Pressure Vessel Code (BPVC), Section VIII, “Rules for the Construction of Unfired Pressure Vessels”.<br>ASME Boiler and Pressure Vessel Code, BPVC Section VIII-Rules for Construction of Pressure Vessels Division 3-Alternative Rules for Construction of High-Pressure Vessels.<br>ASME BPVC.XII - BPVC Section XII-Rules for Construction and Continued Service of Transport Tanks. | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | | | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | ASTM A106, Standard Specification for Seamless Carbon Steel Pipe for High-Temperature Service.<br>ASTM A333, Standard Specification for Seamless and Welded Steel Pipe for Low-Temperature Service and Other Applications with Required Notch Toughness.<br>ASTM B42, Standard Specification for Seamless Copper Pipe, Standard Sizes.<br>ASTM B43, Standard Specification for Seamless Red Brass Pipe, Standard Sizes.<br>ASTM B88, Specification for Seamless Copper Water Tube.<br>ASTM B135, Standard Specification for Seamless Brass Tube.<br>ASTM D2513, Standard Specification for Polyethylene (PE) Gas Pressure Pipe, Tubing, and Fittings.<br>ASTM D2683, Standard Specification for Socket-Type Polyethylene Fittings for Outside Diameter-Controlled Polyethylene Pipe and Tubing.<br>ASTM D3261, Standard Specification for Butt Heat Fusion Polyethylene (PE) Plastic Fittings for Polyethylene (PE) Plastic Pipe and Tubing.<br>ASTM F1055, Standard Specification for Electrofusion Type Polyethylene Fittings for Outside Diameter Controlled Polyethylene and Crosslinked Polyethylene (PEX) Pipe and Tubing.<br>ASTM F1387, Standard Specification for Performance of Piping and Tubing Mechanically Attached Fittings.<br>ASTM F1733, Standard Specification for Butt Heat Fusion Polyamide (PA) Plastic Fitting for Polyamide (PA) Plastic Pipe and Tubing.<br>BS 669-1, Flexible hoses, end fittings and sockets for gas burning appliances. Strip-wound metallic flexible hoses, covers, end fittings and sockets for domestic appliances burning 1st, 2nd and 3rd family gases. Specification.<br>BS 669-2, Flexible hoses, end fittings and sockets for gas burning appliances. Specification for corrugated metallic flexible hoses, covers, end fittings and sockets for catering appliances burning 1st, 2nd and 3rd family gases.<br>BS 3212, Specification for flexible rubber tubing, rubber hose and rubber hose assemblies for use in LPG vapour phase and LPG/air installations.<br>BS 4089, Specification for metallic hose assemblies for liquid petroleum gases and liquefied natural gases. | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | | | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | BS 8537, Copper and copper alloys. Plumbing fittings. Specification for press ends of plumbing fittings for use with metallic tubes.<br>EN 88-1, Pressure regulators and associated safety devices for gas appliances - Part 1: Pressure regulators for inlet pressures up to and including 50 kPa.<br>EN 88-2, Pressure regulators and associated safety devices for gas appliances - Part 2: Pressure regulators for inlet pressures above 500 mbar up to and including 5 bar.<br>EN 125, Flame supervision devices for gas burning appliances. Thermoelectric flame supervision devices.<br>EN 161, Automatic shut-off valves for gas burners and gas appliances.<br>EN 331, Manually operated ball valves and closed bottom taper plug valves for gas installations for buildings.<br>EN 682, Elastomeric Seals - Materials requirements for seals used in pipes and fittings carrying gas and hydrocarbon fluids.<br>EN 1057, Copper and copper alloys - Seamless, round copper tubes for water and gas in sanitary and heating applications.<br>EN 1106, Manually operated taps for gas burning appliances.<br>EN 1254-1, Copper and copper alloys - Plumbing fittings - Part 1: Capillary fittings for soldering or brazing to copper tubes.<br>EN 1254-2, Copper and copper alloys - Plumbing fittings - Part 2: Compression fittings for use with copper tubes.<br>EN 1359, Gas meters. Diaphragm gas meters.<br>EN 1440, LPG equipment and accessories - Transportable refillable traditional welded and brazed steel Liquefied Petroleum Gas (LPG) cylinders - Periodic inspection.<br>EN 1442, LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Design and construction.<br>EN 1555-3, Plastics piping systems for the supply of gaseous fuels. Polyethylene (PE). Part 3: Fittings.<br>EN 1762, Rubber hoses and hose assemblies for liquefied petroleum gas, LPG (liquid or gaseous phase), and natural gas up to 25 bar (2,5 MPa) - specification. | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|

| Product Category | Items, Materials or Products | Standards | Remarks *(if any)* |
|---|---|---|---|
| | | EN 1983, Industrial valves. Steel ball valves.<br>EN 12245, Transportable gas cylinders. Fully wrapped composite cylinders.<br>EN 12261, Gas meters - Turbine gas meters<br>EN 12480, Gas meters - Rotary displacement gas meters<br>EN 12493, LPG equipment and accessories - Welded steel pressure vessels for LPG road tankers - Design and manufacture.<br>EN 12542, LPG equipment and accessories - Static welded steel cylindrical pressure vessels, serially produced for the storage of Liquefied Petroleum Gas (LPG) having a volume not greater than 13 $m^3$ - Design and manufacture.<br>EN 12805, Automotive LPG components - Containers.<br>EN 12807, LPG equipment and accessories - Transportable refillable brazed steel cylinders for liquefied petroleum gas (LPG) - Design and construction.<br>EN 12817, LPG Equipment and accessories - Inspection and requalification of LPG pressure vessels up to and including 13 $m^3$.<br>EN 12819, LPG equipment and accessories - Inspection and requalification of LPG pressure vessels greater than 13 $m^3$.<br>EN 13110, LPG equipment and accessories - Transportable refillable welded aluminum cylinders for liquefied petroleum gas (LPG) - Design and construction.<br>EN 13175, LPG Equipment and accessories - Specification and testing for Liquefied Petroleum Gas (LPG) pressure vessel valves and fittings.<br>EN 13445, Unfired Pressure vessels.<br>EN 13547, Industrial valves. Copper alloy ball valves.<br>EN 13709, Industrial valves. Steel globe and globe stop and check valves.<br>EN 13766, Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of liquid petroleum gas and liquefied natural gas.<br>EN 13774, Valves for gas distribution systems with maximum operating pressure less than or equal to 16 bar. Performance requirements.<br>EN 13776, LPG equipment and accessories - Filling and discharge procedures for LPG road tankers. | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | | | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | EN 13789, Industrial valves. Cast iron globe valves.<br>EN 13953, LPG equipment and accessories - Pressure relief valves for transportable refillable cylinders for Liquefied Petroleum Gas (LPG).<br>EN 14071, LPG equipment and accessories - Pressure relief valves for LPG pressure vessels - Ancillary equipment.<br>EN 14129, LPG Equipment and accessories - Pressure relief valves for LPG pressure vessels.<br>EN 14140, LPG equipment and accessories - Transportable refillable welded steel cylinders for LPG - Alternative design and construction.<br>EN 14236, Ultrasonic domestic gas meters.<br>EN 14334, LPG equipment and accessories - Inspection and testing of LPG road tankers<br>EN 14427, LPG equipment and accessories - Transportable refillable fully wrapped composite cylinders for LPG - Design and construction.<br>EN 14570, LPG equipment and accessories - Equipping of overground and underground LPG vessels.<br>EN 14800, Corrugated safety metal hose assemblies for the connection of domestic appliances using gaseous fuels.<br>EN 14893, LPG equipment and accessories. Transportable Liquefied Petroleum Gas (LPG) welded steel pressure drums with a capacity between 150 liters and 1000 liters.<br>EN 14912, LPG equipment and accessories - Inspection and maintenance of LPG cylinder valves at time of periodic inspection of cylinders.<br>EN 15069, Safety gas connection valves for metal hose assemblies used for the connection of domestic appliances using gaseous fuel.<br>EN 15266, Stainless steel pliable corrugated tubing kits in buildings for gas with an operating pressure up to 0.5 bar.<br>EN 16119, LPG equipment and accessories - Sealing caps and plugs for LPG cylinder and pressure vessel valves - Specification and testing.<br>EN 16125, LPG Equipment and Accessories - Pipework systems and supports - LPG in liquid phase and vapour pressure phase | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | | | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | EN 16129, Pressure regulators, automatic change-over devices, having a maximum regulated pressure of 4 bar, with a maximum capacity of 150 kg/h, associated safety devices and adaptors for butane, propane, and their mixtures.<br>EN 16617, Pipework - Corrugated metal hose assemblies for combustible gas - Performance requirements, testing and marking.<br>EN 16631, LPG equipment and accessories - Pressure relief valves for LPG pressure vessels - Reconditioning requirements.<br>EN 50402, Electrical apparatus for the detection and measurement of combustible or toxic gases or vapours or of oxygen. Requirements on the functional safety of gas detection systems.<br>EN 60079-29-1, Explosive atmospheres. Part 29-1: Gas detectors. Performance requirements of detectors for flammable gases.<br>EN 60079-29-4, Explosive atmospheres. Part 29-4: Gas detectors. Performance requirements of open path detectors for flammable gases.<br>EN ISO 16440, Petroleum and natural gas industries - Pipeline transportation systems - Design, construction and maintenance of steel cased pipelines.<br>FM 3510, Examination Standard for Flow and Pressure Safety Switches.<br>FM 6310,6320, Approval standard for Combustible gas detectors.<br>FM 7151,7156,7157, Examination standard for Liquified petroleum gas vaporizers, Gas-air mixers and vaporizer-mixers.<br>FM 7400, Approval standard for liquid and gas safety shutoff valves.<br>FM 7420, Examination standard for Gas safety control cocks.<br>FM 7422, Examination standard for Electric interlocking fuel gas and fuel oil cocks.<br>GIS/PL2-2, Polyethylene pipes and fittings for natural gas and suitable manufactured gas. Part 2: Pipes for use at pressures up to 5.5 bar.<br>GIS/PL2-4, Polyethylene pipes and fittings for natural gas and suitable manufactured gas. Part 4: Fusion fittings with integral heating element(s).<br>GIS/PL2-6, Polyethylene pipes and fittings for natural gas and suitable manufactured gas. Part 6: Spigot end fittings for electrofusion and/or butt fusion purposes. | |

| **Schemes Owner: Emirates Safety Laboratory**<br>Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025;<br>**Technical Regulation:** | | | **Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Type 3 & 5** |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | GIS/PL2-8, Polyethylene pipes and fittings for natural gas and suitable manufactured gas. Part 8: Pipes for use at pressures up to 7 bar.<br>IEC 60079-0, Explosive atmospheres. Part 0: Equipment. General requirements.<br>IEC 60079-1, Explosive atmospheres. Part 1: Equipment protection by flameproof enclosures “d”.<br>IEC 60079-11, Explosive atmospheres. Part 11. Equipment protection by intrinsic safety "i".<br>IEC 60335-1, Household and similar electrical appliances. Safety. General requirements.<br>ISO 2928, Rubber hoses and hose assemblies for liquefied petroleum gas (LPG) in the liquid or gaseous phase and natural gas up to 2,5 MPa (25 bar) — Specification.<br>ISO 4126, Safety devices for protection against excessive pressure (corresponding part or parts in combination of the standard series to be selected).<br>ISO 4437-2, Plastics piping systems for the supply of gaseous fuels -Polyethylene (PE) — Part 2: Pipes.<br>ISO 4437-3, Plastics piping systems for the supply of gaseous fuels — Polyethylene (PE) — Part 3: Fittings.<br>ISO 4706, Gas cylinders — Refillable welded steel cylinders - Test pressure 60 bar and below.<br>ISO 8789, Rubber hoses and hose assemblies for liquefied petroleum gas in motor vehicles — Specification.<br>ISO 9951, Measurement of gas flow in closed conduits - Turbine meters.<br>ISO 10434, Bolted bonnet steel gate valves for the petroleum, petrochemical and allied industries.<br>ISO 10460, Gas cylinders — Welded aluminium-alloy, carbon and stainless-steel gas cylinders — Periodic inspection and testing.<br>ISO 11119-2, Gas cylinders — Design, construction and testing of refillable composite gas cylinders and tubes — Part 2: fully wrapped fibre reinforced composite gas cylinders and tubes up to 450 l with load-sharing metal liners.<br>ISO 11119-3, Gas cylinders — Design, construction and testing of refillable composite gas cylinders and tubes — Part 3: Fully wrapped fibre reinforced composite gas cylinders and tubes up to 450 l with non-load-sharing metallic or non-metallic liners or without liners.<br>ISO 11759, Rubber hoses and hose assemblies for dispensing liquefied petroleum gases (LPGs) — Specification. | |

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|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| | | EN 14025, Tanks for the transport of dangerous goods - Metallic pressure tanks - Design and construction.<br>ISO 14245, Gas cylinders — Specifications and testing of LPG cylinder valves — Self-closing.<br>ISO 14531-2, Plastics pipes and fittings — Crosslinked polyethylene (PE-X) pipe systems for the conveyance of gaseous fuels — Metric series — Specifications — Part 2: Fittings for heat-fusion jointing.<br>ISO 14531-3, Plastics pipes and fittings — Crosslinked polyethylene (PE-X) pipe systems for the conveyance of gaseous fuels — Metric series — Specifications — Part 3: Fittings for mechanical jointing (including PE-X/metal transitions).<br>ISO 15761, Steel gate, globe and check valves for sizes DN 100 and smaller, for the petroleum and natural gas industries.<br>ISO 15995, Gas cylinders — Specifications and testing of LPG cylinder valves — Manually operated.<br>ISO 17089-1, Measurement of fluid flow in closed conduits - Ultrasonic meters for gas - Part 1: Meters for custody transfer and allocation measurement<br>ISO 17089-2, Measurement of fluid flow in closed conduits - Ultrasonic meters for gas - Part 2: Meters for industrial applications<br>ISO 17484-1, Plastics piping systems — Multilayer pipe systems for indoor gas installations with a maximum operating pressure up to and including 5 bar (500 kPa) — Part 1: Specifications for systems.<br>ISO 18225, Plastics piping systems — Multilayer piping systems for outdoor gas installations — Specifications for systems.<br>ISO 20703, Gas cylinders — Refillable welded aluminum-alloy cylinders — Design, construction and testing.<br>ISO 20826, Automotive LPG components - Containers.<br>ISO 22991, Gas cylinders — Transportable refillable welded steel cylinders for liquefied petroleum gas (LPG) — Design and construction.<br>ISO 23551, Safety and control devices for gas burners and gas-burning appliances — Particular requirements - Part 2: Pressure regulators | |

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|---|---|

| Product Category | Items, Materials or Products | Standards | Remarks *(if any)* |
|---|---|---|---|
| | | ISO 27127, Thermoplastic multi-layer (non-vulcanized) hoses and hose assemblies for the transfer of liquid petroleum gas and liquefied natural gas — Specification.<br>OIML R 137-1, Gas meters Part 1: Metrological and technical requirements.<br>OIML R 137-2, Gas meters Part 2: Metrological controls and performance tests.<br>PD 5500, Specification for unfired pressure vessels.<br>UL 1349, Outline of Investigation for LP-Gas Vaporizers.<br>UL 2003, Outline of Investigation for LP-Gas Cylinder Assemblies. | |
| **14. Flammable and Combustible Liquid Storage** | Storage cabinets, Atmospheric tanks, Low Pressure Tanks, Vaults | ANSI/UL 1316, Standard for Fibre Reinforced Underground Tanks for Flammable and Combustible Liquids.<br>ANSI/UL 142, Steel Aboveground Tanks for Flammable and Combustible Liquids.<br>ANSI/UL 80, Standard for Steel Tanks for Oil-Burner Fuels and Other Combustible Liquids.<br>API Specification 12B, Specification for Bolted Tanks for Storage of Production.<br>API Specification 12D, Specification for Field Welded Tanks for Storage of Production Liquids.<br>API Specification 12F, Specification for Shop Welded Tanks for Storage of Production Liquids.<br>API Standard 620, Design and Construction of Large, Welded, Low-Pressure Storage Tanks.<br>API Standard 650, Welded Tanks for Oil Storage.<br>ASME, Code for Unfired Pressure Vessels, Section VIII, Division 1.<br>EN 14015, Specification for the design and manufacture of site built, vertical, cylindrical, flat-bottomed, above ground, welded, steel tanks for the storage of liquids at ambient temperature and above.<br>EN 14470-1, Fire safety storage cabinets - Part 1: Safety storage cabinets for flammable liquids.<br>NFPA 251, Standard Methods of Tests of Fire Resistance of Building Construction and Materials.<br>UL 58, Standard for Steel Underground Tanks for Flammable and Combustible Liquids.<br>UL 1746, Standard for External Corrosion Protection Systems For Steel Underground Storage Tanks.<br>UL 2080, Standard for Fire Resistant Tanks for Flammable and Combustible Liquids.<br>UL 2085, Standard for Protected Aboveground Tanks for Flammable and Combustible Liquids.<br>UL 2245, Standard for Below-Grade Vaults for Flammable Liquid Storage Tanks. | |

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|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| **15. Photovoltaic Installations** | Photovoltaic cells/panels, Inverters/Converters | ANSI/UL 1703, Standard for Flat-Plate Photovoltaic Modules and Panels.<br>IEC 61730-1, Photovoltaic (PV) module safety qualification - Part 1: Requirements for construction.<br>IEC 61730-2, Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing.<br>IEC 62109-1, Safety of power converters for use in photovoltaic power systems - Part 1: General requirements.<br>IEC 62109-2, Safety of power converters for use in photovoltaic power systems - Part 2: Particular requirements for inverters.<br>UL 1741, Inverters, Converters, Controllers and Interconnection System Equipment for Use with Distributed Energy Resources. | |

| Specific Schemes: Internal Certification Scheme on Global Conformity Certification of fire and life safety products- Version 06 / Issued September 2025; UAE Cabinet Resolution No. 20 of 2021 | | | Scheme Type (as per ISO/IEC 17067 or as stated by the Scheme owner): Module H |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Standards** | **Remarks** *(if any)* |
| **Fire Protection Systems** | Fire suppression systems intended for the engine compartments of buses and coaches | UAE.S 5041, Fire suppression systems intended for engine compartments of buses and coaches. | |

**Note:** the text in blue indicates the new scope OR update in the Edition/Version/Year number of a standard/scheme/regulation in this issue of the scope of accreditation.

### Log of Suspended Scopes: None

| Specific Schemes: | | | | |
|---|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Specification, Standard Method or Technique Used** | **Date Suspended** | **Date Reinstated** |
| | | | | |
| | | | | |

### Log of Withdrawn Scopes: None

| Specific Schemes: | | | |
|---|---|---|---|
| **Product Category** | **Items, Materials or Products** | **Specification, Standard Method or Technique Used** | **Date Withdrawn** |
| | | | |
| | | | |

**END**

*Status of this accreditation can be checked in the GAC's website to confirm the validity of this accreditation - https://www.gac.org.sa/en/*