

Deutsche Akkreditierungsstelle GmbH

Entrusted according to Section 8 subsection 1 AkkStelleG in connection with Section 1 subsection 1 AkkStelleGBV

Signatory to the Multilateral Agreements of
EA, ILAC and IAF for Mutual Recognition

Accreditation



The Deutsche Akkreditierungsstelle GmbH attests that the testing laboratory

MPA Dresden GmbH
Fuchsmühlenweg 6F, 09599 Freiberg

is competent under the terms of DIN EN ISO/IEC 17025:2005 to carry out tests in the following fields:

Testing of portable fire extinguishers, mobile fire extinguishers without own power operation and fire extinguishers fixed in vehicles, fire extinguishers for controlling pulverised lignite and smouldering fire; testing of fire extinguishing sprays;
Testing of fire extinguishing agents; fire tests of building materials, building components and construction products, roofing, cables and insulated lines, safety storage cabinets, upholstered furniture and upholstery composites, textiles, bedding as well as testing of fire behaviour under actual fire conditions, fire tests in the area of maritime transport and railway vehicles;

Testing of construction products (System 3 for the evaluation and testing of the constancy of performance) within the scope of the Directive (EU) no. 305/2011 for the definition of harmonised conditions for the marketing of construction products (Construction Product Regulation)

Testing of reaction to fire, fire resistance and external fire performance of construction products for which the reference to a relevant harmonised technical specification is not required (point 3, Annex V, (EU) no. 305/2011)

The accreditation certificate shall only apply in connection with the notice of accreditation of 29.06.2017 with the accreditation number D-PL-17819-01 and is valid until 10.08.2019. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 17 pages.

Registration number of the certificate: **D-PL-17819-01-00**

Berlin,
29.06.2017

Dr. Heike Manke
Head of Division

Translation issued:
29.06.2017


Head of Division

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The publication of extracts of the accreditation certificate is subject to the prior written approval by Deutsche Akkreditierungsstelle GmbH (DAkKS). Exempted is the unchanged form of separate disseminations of the cover sheet by the conformity assessment body mentioned overleaf.

No impression shall be made that the accreditation also extends to fields beyond the scope of accreditation attested by DAkKS.

The accreditation was granted pursuant to the Act on the Accreditation Body (AkkStelleG) of 31 July 2009 (Federal Law Gazette I p. 2625) and the Regulation (EC) No 765/2008 of the European Parliament and of the Council of 9 July 2008 setting out the requirements for accreditation and market surveillance relating to the marketing of products (Official Journal of the European Union L 218 of 9 July 2008, p. 30). DAkKS is a signatory to the Multilateral Agreements for Mutual Recognition of the European co-operation for Accreditation (EA), International Accreditation Forum (IAF) and International Laboratory Accreditation Cooperation (ILAC). The signatories to these agreements recognise each other's accreditations.

The up-to-date state of membership can be retrieved from the following websites:

EA: www.european-accreditation.org

ILAC: www.ilac.org

IAF: www.iaf.nu

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-17819-01-00 according to DIN EN ISO/IEC 17025:2005

Period of validity: 29.06.2017 to 10.08.2019

Date of issue: 29.06.2017

Holder of certificate:

MPA Dresden GmbH
Fuchsmühlenweg 6F, 09599 Freiberg

Tests in the fields:

Testing of portable fire extinguishers, mobile fire extinguishers without own power operation and fire extinguishers fixed in vehicles, fire extinguishers for controlling pulverised lignite and smouldering fire; testing of fire extinguishing sprays;

Testing of fire extinguishing agents; fire tests of building materials, building components and construction products, roofing, cables and insulated lines, safety storage cabinets, upholstered furniture and upholstery composites, textiles, bedding as well as testing of fire behaviour under actual fire conditions, fire tests in the area of maritime transport and railway vehicles

Testing of construction products (System 3 for the evaluation and testing of the constancy of performance) within the scope of the Directive (EU) no. 305/2011 for the definition of harmonised conditions for the marketing of construction products (Construction Product Regulation)

Testing of reaction to fire, fire resistance and external fire performance of construction products for which the reference to a relevant harmonised technical specification is not required (point 3, Annex V, (EU) no. 305/2011)

Abbreviations used: see last page

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standard test methods listed here with different issue dates or revision status updates. A current list of all testing methods in the flexible accreditation scope is maintained by the testing laboratory.

1 Fire extinguishers

1.1 Portable fire extinguishers

DIN EN 3-7
2007-10 Portable fire extinguishers - Part 7: Characteristics, performance requirements and test methods

DIN EN 3-8
2007-02
Corrigendum 1
2008-01 Portable fire extinguishers - Part 8: Additional requirements to EN 3-7 for the construction, resistance to pressure and mechanical tests for extinguishers with a maximum allowable pressure equal to or lower than 30 bar

DIN EN 3-9
2007-02
Corrigendum 1
2008-01 Portable fire extinguishers - Part 9: Additional requirements to EN 3-7 for pressure resistance of CO₂ extinguishers

1.2 Mobile fire extinguishers without own power operation

DIN EN 1866-1
2007-10
Corrigendum 1
2008-01 Mobile fire extinguishers - Part 1: Characteristics, performance and test methods, Corrigenda to DIN EN 1866-1:2007-10

DIN EN 1866-2
2014-07 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

DIN EN 1866-3
2013-08 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

1.3 Other fire extinguishers

LG-01
1996-11 Suitability testing of fire extinguishers for controlling pulverised lignite and smouldering fire

1.4 Fire extinguishing sprays

EK5/TA7 13-12 2013-12	Guideline for testing and certification of fire extinguishers of the aerosol type (GS-Mark, for testing only)
DIN SPEC 14411 2013-07	Extinguishing aerosol dispenser
BS 6165 2002-02	Specification for small disposable fire extinguishers of the aerosol type
NF S61-804 1998-10	Générateurs d'aérosol à fonction extinctrice

2 Fire extinguishing agents

DIN EN 615 2009-08	Fire protection - Fire extinguishing media - Specifications for powders (other than class D powders);
DIN EN 1568-1 2008-06 Corrigendum 1 2010-07	Fire extinguishing media - Foam concentrates - Part 1: Specification for medium expansion foam concentrates for surface application to water - immiscible liquids Corrigendum to DIN EN 1568-1:2008-06
DIN EN 1568-2 2008-06 Corrigendum 1 2010-07	Fire extinguishing media - Foam concentrates - Part 2: Specification for high expansion foam concentrates for surface application to water - immiscible liquids Corrigendum to DIN EN 1568-2:2008-06
DIN EN 1568-3 2008-07 Corrigendum 1 2010-07	Fire extinguishing media - Foam concentrates - Part 3: Specification for low expansion foam concentrates for surface application to water - immiscible liquids Corrigendum to DIN EN 1568-3:2008-06
DIN EN 1568-4 2008-06 Corrigendum 1 2010-07	Fire extinguishing media - Foam concentrates - Part 4: Specification for low expansion foam concentrates for surface application to water - miscible liquids Corrigendum to DIN EN 1568-4:2008-06
DIN EN 1869 2001-01	Fire blankets

ICAO Airport Services Manual, part1, chapter 8: 2013-11	Availability of Extinguishing Media - Specification, Procedures and Performance Levels
IMO MSC/Circ. 670 1995-01	Guidelines for the performance and testing criteria and surveys of high - expansion foam concentrates for fixed fire - extinguishing systems
IMO MSC/Circ. 798 1997-06	Guidelines for the performance and testing criteria and surveys of medium - expansion foam concentrates for fixed fire - extinguishing systems
IMO MSC.1/Circ. 1312 2009-06 Corrigendum 1 2011-11	Revised guidelines for the performance and testing criteria and surveys of foam concentrates for fixed fire-extinguishing systems
ISO 7202 2012-07	Fire protection – Fire extinguishing media - Powder
ISO 7203-1 2011-06	Fire extinguishing media - Foam concentrates - Part 1: Specification for low-expansion foam concentrates for top application to water-immiscible liquids
ISO 7203-2 2011-06	Fire extinguishing media - Foam concentrates - Part 2: Specification for medium- and high-expansion foam concentrates for top application to water-immiscible liquids
ISO 7203-3 2011-08	Fire extinguishing media - Foam concentrates - Part 3: Specification for low-expansion foam concentrates for top application to water-miscible liquids
LM 01-01 2011-12	Testing of aqueous fire extinguishing agents

3 Fire tests on building components and construction products, as well as safety storage cabinets, cables and insulated cables; testing of fire behaviour under actual fire conditions

3.1 Building materials, building components and construction products

DIN 4102-1 1998-05	Fire behaviour of building materials and building components - Part 1: Building materials - concepts, requirements and tests
DIN 4102-2 1977-09	Fire behaviour of building materials and building components - Part 2: Building components - definitions, requirements and tests
DIN 4102-3 1977-09	Fire behaviour of building materials and building components - Part 3: Fire walls and non-load-bearing external walls - definitions, requirements and tests
DIN 4102-5 1977-09	Fire behaviour of building materials and building components - Part 5: Fire barriers, barriers in lift wells and glazings resistant against fire - definitions, requirements and tests
DIN 4102-7 1998-07	Fire behaviour of building materials and building components - Part 7: Roofing - definitions, requirements and testing
DIN 4102-8 2003-10	Fire behaviour of building materials and building components - Part 8: Small scale test furnace
DIN 4102-9 1990-05	Fire behaviour of building materials and building components - Part 9: Seals for cable penetrations; concepts, requirements and testing
DIN 4102-11 1985-12	Fire behaviour of building materials and building components - Part 11: pipe encasements, pipe bushings, service shafts and ducts, and barriers across inspection openings; terminology, requirements and testing
DIN 4102-12 1998-11	Fire behaviour of building materials and building components - Part 12: Circuit integrity maintenance of electric cable systems; requirements and testing
DIN 4102-13 1990-05	Fire behaviour of building materials and building components - Part 13: Fire resistant glazing; concepts, requirements and testing
DIN 4102-16 2015-09	Fire behaviour of building materials and building components - Part 16: " <i>Brandschacht</i> " tests

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DIN 4102-17 1990-12	Fire behaviour of building materials and building components - Part 17: Determination of melting point of mineral fibre insulating materials - definitions, requirements and testing
DIN 18089-1 1984-01	Fire barriers; fillers for fire-doors; mineral fibre boards (felts); definition, designation, requirements, tests
DIN EN 1363-1 2012-10	Fire resistance tests - Part 1: General requirements
DIN EN 1363-2 1999-10	Fire resistance tests - Part 2: Alternative and additional procedures
DIN EN 1364-1 2015-09	Fire resistance tests for non-loadbearing elements - Part 1: Walls
DIN EN 1364-2 1999-10	Fire resistance tests for non-loadbearing elements - Part 2: Ceilings
DIN EN 1364-3 2014-05	Fire resistance tests for non-loadbearing elements - Part 3: Curtain walling - Full configuration (complete assembly)
DIN EN 1364-4 2007-06	Fire resistance tests for non-loadbearing elements - Part 4: Curtain walling - Part configuration
DIN EN 1365-1 2013-08	Fire resistance tests for loadbearing elements - Part 1: Walls
DIN EN 1365-2 2015-02	Fire resistance tests for loadbearing elements- Part 2: Floors and roofs
DIN EN 1366-1 2014-12	Fire resistance tests for service installations - Part 1: Ventilation ducts
DIN EN 1366-3 2009-07	Fire resistance tests for service installations - Part 3: Penetration seals
DIN EN 1366-4 2010-08	Fire resistance tests for service installations - Part 4: Linear joint seals
DIN EN 1366-5 2010-06	Fire resistance tests for service installations - Part 5: Service ducts and shafts
DIN EN 1366-6 2005-02	Fire resistance tests for service installations - Part 6: Raised access and hollow core floors

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DIN EN 1366-7 2004-09	Fire resistance tests on service installations - Part 7: Conveyor systems and their closures
DIN EN 1366-11 2014-11	Fire resistance tests for service installations - Part 11: Fire protective systems for cable systems and associated components
DIN EN 1366-12 2014-12	Fire resistance tests for service installations - Part 12: Non- mechanical fire barrier for ventilation ductwork
DIN EN 1634-1 2014-03	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
DIN EN 13823 2015-02	Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item
DIN EN 16733 Draft 2014-06	Reaction to fire tests for building products - Determination of a building product's propensity to undergo continuous smouldering
DIN EN 61730-2 MST 23 2012-09 IEC 61730-2 MST 23 2004-10	Photovoltaic (PV) module safety qualification - Part 2: Requirements for testing – fire test MST 23
DIN EN ISO 1182 2010-10	Reaction to fire tests for products - Non-combustibility test
DIN EN ISO 1716 2010-11	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)
DIN EN ISO 7840 2013-12	Small craft - Fire-resistant fuel hoses
DIN EN ISO 9239-1 2010-11	Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source
DIN EN ISO 11925-2 2011-02	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
DIN CEN/ TS 1187 DIN SPEC 91187 2012-03	Test methods for external fire exposure to roofs - Method 1

UL 790 2004-04	Standard test methods for fire tests on roof covering
UL 1703 2002-03	Flat-Plate Photovoltaic Modules and Panels
ISO 834-1 1999-09	Fire resistance tests - Building components - Part 1 General requirements
ISO 5658-2 2006-09	Reaction to fire tests - Spread of flame - Part 2: Lateral spread on building and transport products in vertical configuration
IMO FTP CODE 2010	INTERNATIONAL CODE FOR APPLICATION OF FIRE TEST PROCEDURES, 2010 (2010 FTP CODE)
IMO FTP CODE 2010 Part 1	Non-combustibility test
IMO FTP CODE 2010 Part 2	Smoke and toxicity test
IMO FTP CODE 2010 Part 3	Test for "A", "B" and "F" class divisions
IMO FTP CODE 2010 Part 4	Test for fire door control systems
IMO FTP CODE 2010 Part 5	Test for surface flammability (Test for surface materials and primary deck coverings)
IMO FTP CODE 2010 Part 7	Test for vertically supported textiles and films
IMO FTP CODE 2010 Part 8	Test for upholstered furniture
IMO FTP CODE 2010 Part 9	Test for bedding components

3.2 Cables and insulated lines

DIN EN 50200 (VDE 0482-200) 2007-03	Method of test for resistance to fire of unprotected small cables for use in emergency circuits
DIN EN 50266-2-1 2001-09	General testing methods for cables and insulated lines under fire conditions - Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Part 2-1: Testing methods - testing type A F/R
DIN EN 50266-2-2 2001-09	General testing methods for cables and insulated lines under fire conditions - Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Part 2-2: Testing methods - testing type A
DIN EN 50266-2-3 2001-09	General testing methods for cables and insulated lines under fire conditions - Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Part 2-3: Testing methods - testing type B
DIN EN 50266-2-4 2001-09	General testing methods for cables and insulated lines under fire conditions - Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Part 2-4: Testing methods - Thin cables, testing type C
DIN EN 50266-2-5 2001-09	General testing methods for cables and insulated lines under fire conditions - Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Part 2-5: Thin cables, testing type D
DIN EN 50267-2-1 (VDE 0482-267-2-1) 1999-04	General testing methods for behaviour of wires and insulated cables under fire conditions - Testing of gases produced during combustion of materials in cables and insulated lines - Part 2-1: Testing methods - determination of the amount of halogen hydracid
DIN EN 50399 (VDE 0482-399) 2012-02	Common test methods for cables under fire conditions - Heat release and smoke production measurement on cables during flame spread test - Test apparatus, procedures, results

DIN EN 60332-1-2 (VDE 0482-332-1-2) 2005-06	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
DIN EN 60332-1-3 (VDE 0482-332-1-3) 2005-06	Tests on electric and optical fibre cables under fire conditions - Part 1-3: Test for vertical flame propagation for a single insulated wire or cable - Procedure for determination of flaming droplets/particles
DIN EN 60332-2-2 (VDE 0482-332-2-2) 2005-06	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
DIN EN 60332-3-21 (VDE 0482-332-3-21) 2010-08	Testing of cables and insulated lines under fire conditions - Part 3-21: Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Testing type A F/R
DIN EN 60332-3-22 (VDE 0482-332-3-22) 2010-08	Testing of cables, insulated lines and optical fibre cables under fire conditions - Part 3-22: Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Testing type A
DIN EN 60332-3-23 2010-08	Testing of cables, insulated lines and optical fibre cables under fire conditions - Part 3-23: Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Testing type B
DIN EN 60332-3-24: 2010-08	Testing of cables, insulated lines and optical fibre cables under fire conditions - Part 3-24: Testing of vertical flame spread of vertically-mounted bundles of cables and insulated lines - Testing type C
DIN EN 60332-3-25: 2010-08	Testing of cables, insulated lines and optical fibre cables under fire conditions - Part 3-25: Testing of vertical flame spread of vertically- mounted bundles of cables and insulated lines - Testing type D
DIN EN 60439-2 Section 8.2.14: 2006-07	Low-voltage switchgear assemblies - Part 2: Particular requirements for busbar trunking systems (busways) Section 8.2.14 Verification of resistance to fire propagation

DIN EN 60754-2 2015-08	Test on gases evolved during combustion of materials from cables - Part 2: Determination of acidity (by pH measurement) and conductivity
DIN EN 61034-2 (VDE 0482-1034-2) 2014-11	General testing methods for behaviour of wires and insulated cables under fire conditions - Measurement of smoke density of cables and insulated lines burning under defined conditions - Part 2: Testing method
IEC 60331-21 1999-04	Tests for electric cables under fire conditions – Circuit integrity – Part 21: Procedures and requirements - -Cables of rated voltage up to and including 0,6/1,0 kV
IEC 60331-23 1999-04	Testing of electric cables under fire conditions - Functional integrity - Methods and requirements - Electric data cables
UIC 564-2, Annex 9 1991-01	Testing method for determining the reaction of electrical lines on fire
UIC 895, Annex 6 1976-07	Testing of flame resistance, testing methods
BS 6853 tab. 13+14 And Annex D 8.7 1999-01	Code of practice for fire precautions in the design and construction of passenger carrying trains <ul style="list-style-type: none"> - Flame spread - Measurement of smoke density of cables

3.3 Safety storage cabinets

DIN EN 1047-1 2006-01	Secure storage units - Classification and methods of test for resistance to fire - Part 1:: Data cabinets and diskette inserts
DIN EN 1047-2 2013-05	Secure storage units - Classification and methods of test for resistance to fire - Part 2: Data rooms and data container
DIN EN 14470-1 2004-07	Fire safety storage cabinets - Part 1: Safety storage cabinets for flammable liquids
DIN EN 14470-2 2006-11	Fire safety storage cabinets - Part 2: Safety cabinets for pressurised gas cylinders

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DIN EN 14727 2006-03	Laboratory furniture - Storage units for laboratories - Requirements and test methods
DIN EN 15659 2009-12	Secure storage units - Classification and methods of test for resistance to fire - Light fire storage units
EK/AK4 09-10: 2009-12	Revised guideline for testing and certification of safety storage cabinets within the framework of GS-marking

3.4 Upholstered furniture and upholstery composites, textiles and bedding

DIN 54341 1988-01	Testing of seats in railway vehicles for public transport; determination of burning behaviour with a paper pillow as ignition source
DIN 53438-1 1984-06	Testing of combustible materials; response to ignition by a small flame; general data
DIN 53438-2 1984-06	Testing of combustible materials; response to ignition by a small flame; edge ignition
DIN 53438-3 1984-06	Testing of combustible materials; response to ignition by a small flame; surface ignition
DIN EN 597-1 1995-01	Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 1: Ignition source - smouldering cigarette
DIN EN 597-2 1995-01	Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 2: Ignition source - a gas flame equivalent to a burning match
DIN EN 1021-1 2014-10	Furniture - Assessment of the ignitability of upholstered furniture - Part 1: Ignition source - smouldering cigarette
DIN EN 1021-2 2014-10	Furniture - Assessment of the ignitability of upholstered furniture - Part 2: Ignition source - a gas flame equivalent to a burning match
DIN EN ISO 12952-1 2011-01	Textiles - Assessment of the ignitability of bedding items - Part 1: Ignition source - smouldering cigarette
DIN EN ISO 12952-2 2011-01	Textiles - Assessment of the ignitability of bedding items - Part 2: Ignition source - match-flame equivalent

3.5 Railway applications

DIN EN 50305 (VDE 260-305) 2003-03	Railway applications - Railway rolling stock cables having special fire performance - Test methods (Paragraph 9.1 Flame spread)
DIN 5510-2 2009-05	Preventive fire protection in railway vehicles - Part 2: Fire behaviour and fire side effects of materials and parts - Classification, requirements and test methods annex A: Testing of seats in railway vehicles (seat cushion test)
DIN 54341 1988-01	Testing of seats in railway vehicles for public transport; determination of burning behaviour with a paper pillow as ignition source
DIN 54837 2007-12	Testing of materials, small components and component sections in railway vehicles - Determination of burning behaviour using a gas burner (wide-slot burner test)

Chapter 3 with reference to

<i>DIN EN 13501-1 2010-01</i>	<i>Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests</i>
<i>DIN EN 13501-2 2010-02</i>	<i>Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services</i>
<i>DIN EN 13501-3 2010-02</i>	<i>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</i>
<i>DIN EN 13501-5 2010-02</i>	<i>Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests</i>

<i>DIN EN 13501-6 2014-07</i>	<i>Fire classification of construction products and building elements - Part 6: Classification using data from reaction to fire tests on electric cables</i>
<i>DIN EN 45545-2 2016-02</i>	<i>Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components</i>
<i>DIN EN 45545-3 2013-08</i>	<i>Railway applications - Fire protection on railway vehicles - Part 3: Fire resistance requirements for fire barriers</i>

4 Testing of construction products (System 3 for the evaluation and testing of the constancy of performance) within the scope of the Directive (EU) no. 305/2011 for the definition of harmonised conditions for the marketing of construction products (Construction Product Regulation)

Decision / Resolution of the Commission	System ¹⁾	Technical specification
2011/284/EC Power, control and communication cables	3	EN 50575:2014 Power, control and communication cables - Cables for general applications in construction works subject to reaction to fire requirements

¹⁾ Systems of assessment and verification of constancy of performance

The testing laboratory meets the appropriate requirements in accordance with Article 43 of the Construction Products Regulation. Test methods that are required for specifying the product type and cannot be performed by the certificate holder itself are mentioned in the list of subcontractors.

5 Testing of reaction to fire, fire resistance and external fire performance of construction products for which the reference to a relevant harmonised technical specification is not required (point 3, Annex V, (EU) no. 305/2011)

5.1 Reaction to fire

EN 13823 2010+A1 2014	Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item
EN ISO 1182 2010	Reaction to fire tests for products - Non-combustibility test
EN ISO 11925-2 2010	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN ISO 1716 2010	Fire behaviour tests on construction products - Determination of heat of combustion
EN ISO 9239-1 2010	Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source

Paragraph 5.1 with reference to:

*EN 13501-1
2007+A1:2009* *Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

*EN 13501-6
2014* *Fire classification of construction products and building elements - Part 6: Classification using data from reaction to fire tests on electric cables*

5.2 Resistance to fire

EN 1364-1 2015	Fire resistance tests for non-loadbearing elements - Part 1: Walls
EN 1364-2 1999	Fire resistance tests for non-loadbearing elements - Part 2: Ceilings

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EN 1364-3 2014	Fire resistance tests for non-loadbearing elements - Part 3: Curtain walling - Full configuration (complete assembly)
EN 1364-4 2014	Fire resistance tests for non-loadbearing elements - Part 4: Curtain walling - Part configuration
EN 1365-2 2014	Fire resistance tests on load-bearing building components - Part 2: Ceilings and roofs
EN 1366-1 2014	Fire resistance tests on service installations - Part 1: Ducts
EN 1366-3 2009	Fire resistance tests on service installations - Part 3: Penetration seals
EN 1366-4 2006+A1:2010	Fire resistance tests on service installations - Part 4: Linear joint seals
EN 1366-5 2010	Fire resistance tests on service installations - Part 5: Service ducts and shafts
EN 1366-6 2004	Fire resistance tests on service installations - Part 6: Raised access and hollow core floors
EN 1366-7 2004	Fire resistance tests on service installations - Part 7: Conveyor systems and their shutters
EN 14135 2004	Coverings - Determination of fire protection ability
EN 1634-1 2014	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

Paragraph 5.2 with reference to:

*EN 13501-2
2007+A1:2009* *Fire classification of construction products and building
elements - Part 1: Classification using data from reaction
to fire tests*

*EN 13501-3
2007+A1:2009* *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*

5.3 External fire performance

CEN/TS 1187 Test method for exposure of roofing to external fires - Method 1:
2012

Paragraph 5.3 with reference to:

<p><i>EN 13501-5 2005+A1:2009</i></p>	<p><i>Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests</i></p>
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The testing laboratory meets the appropriate requirements in accordance with Article 43 of the Construction Products Regulation.

Abbreviations used

BS	British Standard
CEN/TS	Technical specification of the Comité Européen de Normalisation (European Committee for Standardisation)
DIN	Deutsches Institut für Normung e.V. (German Institute for Standardisation)
EN	Europäische Norm (European Standard)
EK5	Experience exchange forum No. 5, according to decision of principle ZEK-GB-2004-04 (ZEK 40.2-04)
FTP	Fire Test Procedures
ICAO	International Civil Aviation Organisation
IEC	International Electrotechnical Commission
IMO	International Maritime Organisation
ISO	International Organisation for Standardisation
LG or LM	In-house procedures of MPA Dresden GmbH for fire extinguishers and fire extinguishing agents
MST	Module Safety Test
MSC	Marine Safety Committee
NF	Norme Française (French Standard)
UIC	Union internationale des chemins de fer (International Union of Railways)
UL	Underwriters Laboratories
VDE	VDE Verband der Elektrotechnik Elektronik Informationstechnik e.V. (Association for Electrical, Electronic and Information Technologies)
ZEK	Central experience exchange group of notified bodies and GS-bodies according to the product safety law (Produktsicherheitsgesetz)