

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

Materialprüfanstalt für das Bauwesen (MPA BS)

Beethovenstraße 52, 38106 Braunschweig

Department 2 – Fire Safety

is competent under the terms of DIN EN ISO/IEC 17025:2018 to carry out tests in the following fields:

Fire protection testing of construction elements (load bearing capacity, integrity, insulation, me-mechanical resistance, functional integrity and smoke control); testing under actual fire conditions (combustion of warehouse goods, smoke control, noise protection walls, façades, roofs); testing of data protection cabinets, containers and offices; testing of safes, fire protection testing of equipment, facilities and tanks; reaction to fire testing of building materials, testing of combustibility/flammability, fire spread, heat release, glow gradient and development of exhaust gas of construction materials and reaction to fire of building materials and building components in ship-building according to IMO; Testing of construction products (system of assessment and verification of constancy of performance 3) in accordance with the Construction Products Regulation (EU) No 305/2011 to defined harmonised conditions for the marketing of construction products (Construction Products Regulation - CPR); Tests of reaction to fire, resistance to fire and of the external fire performance, for which the reference to a relevant harmonised technical specification is not required (point 3. Annex V, (EU) No 305/2011)

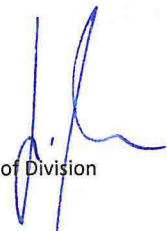
The accreditation certificate shall only apply in connection with the notice of accreditation of 12.10.2021 with the accreditation number D-PL-11267-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 20 pages.

Registration number of the certificate: **D-PL-11267-01-02**

Berlin,
12.10.2021

Dr Heike Manke
Head of Division

Translation issued:
22.10.2021


Head of Division

The certificate together with the annex reflects the status as indicated by the date of issue. The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.

This document is a translation. The definitive version is the original German accreditation certificate.

See notes overleaf.

Deutsche Akkreditierungsstelle GmbH

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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-11267-01-02 according to DIN EN ISO/IEC 17025:2018

Valid from: 12.10.2021

Date of issue: 12.10.2021

Holder of certificate:

**Materialprüfanstalt für das Bauwesen (MPA BS)
Beethovenstraße 52, 38106 Braunschweig**

Department 2 – Fire Safety

Tests in the fields:

Fire protection testing of construction elements (load bearing capacity, integrity, insulation, mechanical resistance, functional integrity and smoke control); testing under actual fire conditions (combustion of warehouse goods, smoke control, noise protection walls, façades, roofs); testing of data protection cabinets, containers and offices; testing of safes, fire protection testing of equipment, facilities and tanks; reaction to fire testing of building materials, testing of combustibility/flammability, fire spread, heat release, glow gradient and development of exhaust gas of construction materials and reaction to fire of building materials and building components in ship-building according to IMO

Testing of construction products (system of assessment and verification of constancy of performance 3) in accordance with the Construction Products Regulation (EU) No 305/2011 to defined harmonised conditions for the marketing of construction products (Construction Products Regulation - CPR)

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

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories. Laboratories that conform to the requirements of this standard, operate generally in accordance with the principles of DIN EN ISO 9001.

*The certificate together with the annex reflects the status as indicated by the date of issue.
The current status of any given scope of accreditation may be found respectively in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH <https://www.dakks.de/en/content/accredited-bodies-dakks>.*

Abbreviations used: see last page

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This document is a translation. The definitive version is the original German annex to the accreditation certificate.

Annex to the accreditation certificate D-PL-11267-01-02

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed here with different issue dates. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

1 Fire behaviour of building materials and building components

ISO 1928 2020-10	Solid mineral fuels - Determination of gross calorific value by the bomb calorimetric method and calculation of net calorific value
ISO 5660-1 2015-03 + AMD 1 2019-08	Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement)
ISO 9705 1993-06	Fire tests; Full scale room test for surface products <i>(withdrawn standard)</i>
ISO 9705-1 2016-02	Reaction to fire tests - Room corner test for wall and ceiling lining products - Part 1: Test method for a small room configuration
ISO/TR 11925-1 1999-03	Reaction to fire tests - Ignitability of building products subjected to direct impingement of flame - Part 1: Guidance on ignitability
DIN EN ISO 1519 2011-04	Paints and varnishes - Bend test (cylindrical mandrel)
DIN EN ISO 3251 2019-09	Paints, varnishes and plastics - Determination of non-volatile-matter content
DIN EN ISO 4589- 1 2017-08	Plastics - Determination of burning behaviour by oxygen index - Part 1: Guidance
DIN EN ISO 4589- 2 2017-11	Plastics - Determination of burning behaviour by oxygen index - Part 2: Ambient-temperature test
DIN EN ISO 6270-2 2018-04	Paints and varnishes - Determination of resistance to humidity - Part 2: Condensation (in-cabinet exposure with heated water reservoir)
DIN EN 492 2018-07	Fibre-cement slates and fittings - Product specification and test methods (here: Clause 7.5 and Annex D)

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DIN EN 520 2009-12	Gypsum plasterboards - Definitions, requirements and test methods (here: Chapter 10, Annexes B and C)
DIN EN 1363-1 2020-05	Fire resistance tests - Part 1: General Requirements
DIN EN 1363-2 1999-10	Fire resistance tests - Part 2: Alternative and additional procedures
DIN V ENV 1363-3 1999-09	Fire resistance tests - Part 3: Verification of furnace performance
DIN EN 1365-1 2013-08	Fire resistance tests for loadbearing elements - Part 1: Walls
DIN EN 1365-5 2005-02	Fire resistance tests for loadbearing elements - Part 5: Balconies and walkways
DIN EN 1365-6 2005-02	Fire resistance tests for loadbearing elements - Part 6: Stairs
DIN EN 1366-11 2018-07	Fire resistance tests for service installations - Part 11: Fire protective systems for cable systems and associated components
DIN EN 1366-12 2020-01	Fire resistance tests for service installations - Part 12: Non-mechanical fire barrier for ventilation ductwork
DIN EN 1366-13 2019-09	Fire resistance tests for service installations - Part 13: Chimneys
DIN EN 12467 2018-07	Fibre-cement flat sheets - Product specification and test methods here: Clause 7.5
DIN EN 13238 2010-06	Reaction to fire tests for building products - Conditioning procedures and general rules for selection of substrates
DIN EN 13381-9 2015-09	Test methods for determining the contribution to the fire resistance of structural members - Part 9: Applied fire protection systems to steel beams with web openings
E DIN EN 13381-10 2018-11	Test methods for determining the contribution to the fire resistance of structural members - Part 10: Applied protection to solid steel bar in tension

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DIN EN 13820 2003-12	Thermal insulating materials for building applications - Determination of organic content
DIN EN 14390 2007-04	Fire test - Large-scale room reference test for surface products
DIN EN 15882-1 2018-01	Extended application of results from fire resistance tests for service installations - Part 1: Ducts (here clause 8)
DIN EN 15882-2 2015-06	Extended application of results from fire resistance tests for service installations - Part 2: Fire dampers (here: clause 5.2)
DIN EN 16733 2016-07	Reaction to fire tests for building products - Determination of a building product's propensity to undergo continuous smouldering
DIN EN 50399 (VDE 0482-399) 2017-02	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) 2017-06	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 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; Building Components; Definitions, Requirements and Tests
DIN 4102-3 1977-09	Fire Behaviour of Building Materials and Building Components; Fire Walls and Non-load-bearing External Walls
DIN 4102-7 2018-11	Fire behaviour of building materials and building components - Part 7: Roofing; Requirements and testing
DIN 4102-8 2003-10	Fire behaviour of building materials and components - Part 8: Small scale test furnace
DIN 4102-9 1990-05	Fire behaviour of building materials and elements; seals for cable penetrations; concepts, requirements and testing
DIN 4102-11 1985-12	Fire behaviour of building materials and building components; pipe encasements, pipe bushings, service shafts and ducts, and barriers across inspection openings; terminology, requirements and testing

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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 elements; fire resistant glazing; concepts, requirements and testing
DIN 4102-14 1990-05	Fire behaviour of building materials and elements; determination of the burning behaviour of floor covering systems using a radiant heat source
DIN 4102-16 2021-01	Fire behaviour of building materials and building components - Part 16: "Brandschacht" tests
DIN 4102-17 2017-12	Fire behaviour of building materials and building components - Part 17: Melting point of mineral wool insulating materials - Terms and definitions, requirements and test
DIN V 4102-21 2002-08	Fire behaviour of building materials and elements; determination of melting point of mineral fibre insulating materials; concepts, requirements and testing
DIN SPEC 4102-23 2018-07	Fire behaviour of building materials and building components - Part 23: Roofs - Application rules for test results for roofs tested to CEN/TS 1187, test method 1, and DIN 4102-7
DIN 50050-1 1986-04	Testing of materials; burning behaviour of materials; small burning cabinet
DIN 50051 1977-02	Testing of Materials; Burning Behaviour of Materials; Burner
DIN 50055 1989-03	Light measuring system for testing smoke development (here clause 4)
DIN 51900-1 2000-04 + Corrigendum 1 2004-02	Testing of solid and liquid fuels - Determination of gross calorific value by the bomb calorimeter and calculation of net calorific value - Part 1: Principles, apparatus, methods
DIN 51900-2 2003-05	Testing of solid and liquid fuels - Determination of the gross calorific value by the bomb calorimeter and calculation of the net calorific value - Part 2: Method using isoperibol or static, jacket calorimeter
DIN 51900-3 2005-01	Testing of solid and liquid fuels - Determination of gross calorific value by the bomb calorimeter and calculation of net calorific value - Part 3: Method using adiabatic jacket

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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
EAD 340006-00-0506	Prefabricated stair kits (here: fire behaviour according clause 2.2.9; fire resistance according clause 2.2.10)
EAD 350003-00-1109	Kit for fire resistant service ducts consisting of prefabricated connection pieces (made of mechanically pre-coated steel sheet) and accessories (here: fire behaviour according clause 2.2.1; fire resistance according clause 2.2.2)
EAD 210005-00-0505	Internal partition kits for use as non-loadbearing walls (here: fire behaviour according clause 2.2.1; fire resistance according clause 2.2.2 and Annex C) <i>(supersedes ETAG 003)</i>
ETAG 004	Guideline for European Technical Approval of external thermal insulation composite systems with rendering (here: fire behaviour according clause 5.1.2.1)
EAD 040083-00-0404	External thermal insulation composite systems (ETICS) with renderings (here: clause 2.2.1, 2.2.2, 2.2.3, 3.3 and Annexes A – C)
ETAG 005-1	Guideline for European Technical Approval of liquid applied roof waterproofing kit - Part 1: General (here: external fire performance according to clause 5.2.1, reaction to fire according clause 5.2.2)
EAD 030351-00-0402	Systems of mechanically fastened flexible roof waterproofing sheets (here: external fire performance, clause 5.2.2.1) <i>(supersedes ETAG 006)</i>
ETAG 007	Guideline for European Technical Approval of timber building kits (here: fire behaviour according clause 2.4.2.1 ; fire resistance according clause 2.4.2.2, external fire performance according clause 2.4.2.3)

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ETAG 009	Guideline for European Technical Approval of non load-bearing permanent shuttering kits/systems based on hollow blocks or panels of insulating materials and sometimes concrete (here: fire behaviour according clause 5.2.1; fire resistance according clause 5.2.2)
EAD 220089-00-0401	Self-supporting translucent roof kits with covering made of plastic sheets (here: reaction to fire according to clause 2.2.1; external fire performance of roofs according to clause 2.2.2) <i>(supersedes ETAG 010)</i>
ETAG 011	Guideline for European Technical Approval of light composite wood-based beams and columns (here: fire behaviour according to clause 4.2.1; fire resistance according to clause 4.2.2)
ETAG 012 merged with ETAG 007	Guideline for European Technical Approval of log building kits (here: fire behaviour according clause 5.2.1. ; fire resistance according to clause 5.2.2, external fire performance according to clause 5.2.3)
EAD 350402-00-1106	Reactive coatings for fire protection of steel elements (here: reaction to fire according clause 2.2.1; resistance to fire according to clause 2.2.2)
EAD 350140-00-1106	Renderings and rendering kits for fire resisting applications (here: reaction to fire according clause 2.2.1; resistance to fire according clause 2.2.2)
EAD 350142-00-1106	Fire protective board, slab and mat products and kits (here: reaction to fire according clause. 2.2.1.1, 2.2.2.1, 2.2.3.1, 2.2.4.1, 2.2.5.1, 2.2.6.1 and 2.2.7.1, resistance to fire according clause 2.2.1.2 and 2.2.2.2)
ETAG 022 (parts 1-3)	Guideline for European Technical Approval of watertight covering kits for wetroom floors and/or walls
ETAG 022-1	Part 1: Liquid applied coverings with or without wearing surface (here: fire behaviour according clause 2.4.1)
ETAG 022-2	Part 2: Kits based on flexible sheets (here: fire behaviour according clause 2.4.1)
ETAG 022-3	Part 3: Kits based on inherently watertight boards (here: fire behaviour according clause 2.4.1)

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EAD 350141-00-1106	Linear joint and gap seals (here: reaction to fire according clause 2.2.1; resistance to fire according clause 2.2.2)
EAD 350454-00-1104	Fire stopping and fire sealing products - Penetration seals (here: reaction to fire according clause 2.2.1; resistance to fire according clause 2.2.2)
ETAG 028	Guideline for European Technical Approval of fire retardant products (here: fire behaviour according clause 2.4.1, , durability of fire behaviour according to clause 2.4.3)
IMO 2010 FTP Code part 1, Resolution MSC.307(88) 2010-12	Non-combustibility Test (ISO 1182)
IMO 2010 FTP Code part 3, Resolution MSC.307(88) 2010-12	Test for "A", "B" and "F" class divisions
NMP 852 Nr. 11b-83 1988-02	Test method for the determination of exhaust gas development of construction materials - decomposition under carbonisation conditions with air supply (DIN 4102-1, Annex A)
NMP 852 Nr. 12c-83 1983-09	Test method for the determination of smoke development of construction materials - combustion under flame conditions (DIN 4102-1, Annex B)
ZTV-LSW 06 2006-11	Additional technical contractual requirements and guidelines for the noise protective walls on the roads

clause 1 in conjunction with:

<i>EN 13501-1 2018</i>	<i>Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests</i>
<i>EN 13501-2 2016</i>	<i>Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services</i>

EN 13501-3
2005
+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

EN 13501-5
2016

Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests

2 Fire barriers and smoke control doors

DIN EN 12604
2017-12

Industrial, commercial and garage doors and gates - Mechanical aspects - Requirements and test methods

DIN EN 12605
2000-08

Industrial, commercial and garage doors and gates - Mechanical aspects - Test methods

DIN 4102-5
1977-09

Fire Behaviour of Building Materials and Building Components; Fire Barriers, Barriers in Lift Wells and Glazings Resistant against Fire; Definitions, Requirements and Tests

DIN 4102-18
1991-03

Fire behaviour of building materials and components; fire barriers, verification of automatic closure (continuous performance test)

DIN 18095-2
1991-03

Smoke control doors; type testing for durability and leakage

EAD 350022-01-1107

Kit for closure system for conveyor systems
(here: Clause 2.2.1, 2.2.2, 2.2.3, 3.3 and Annexes A and B)

clause 2 in conjunction with:

EN 13501-2
2016

Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services

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2.1 Windows, doors, gates, Curtain walling

DIN EN 948 1999-11	Hinged or pivoted doors - Determination of the resistance to static torsion
DIN EN 1121 2000-09	Doors - Behaviour between two different climates - Test method
DIN EN 1191 2013-04	Windows and doors - Resistance to repeated opening and closing - Test method
DIN EN 12046-1 2020-11	Operating forces - Test method - Part 1: Windows
DIN EN 12046-2 2000-12	Operating forces - Test method - Part 2: Doors

3 Smoke extraction

DIN EN 1751 2014-06	Ventilation for buildings - Air terminal devices - Aerodynamic testing of damper and valves
DIN EN 1858 2011-09	Chimneys - Components - Concrete flue blocks (here: clause 8 and annex A)
DIN EN 12101-1 2006-06	Smoke and heat control systems - Part 1: Specification for smoke barriers
DIN EN 12101-2 2017-07	Smoke and heat control systems - Part 2: Specification for natural smoke and heat exhaust ventilators
DIN EN 12101-3 2015-12	Smoke and heat control systems - Part 3: Specification for powered smoke and heat control ventilators (Fans)
DIN EN 12101-6 2005-09	Smoke and heat control systems - Part 6: Specification for pressure differential systems, Kits
DIN EN 12446 2011-09	Chimneys - Components - Concrete outer wall elements (here: clause 8 and annex A)
DIN 18232-4 2003-04	Smoke and heat control systems - Part 4: Heat exhaust systems (WA); Test methods

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DIN V 18232-6
1997-10

Smoke and heat control installations - Powered smoke exhaust systems - Part 6: Requirements for components and suitability testing
(withdrawn standard)

clause 3 in conjunction with:

*EN 13501-4
2016*

Fire classification of construction products and building elements - Part 4: Classification using data from fire resistance tests on components of smoke control systems

4 Datarooms, -cabinets, container and Safety storage cabinets

DIN EN 1047-1
2019-12

Secure storage units - Classification and methods of test for resistance to fire - Part 1: Data cabinets and diskette inserts

DIN EN 1047-2
2019-06

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

DIN EN 15659
2020-02

Secure storage units - Classification and methods of test for resistance to fire - Light fire storage units

5 Testing of construction products (system of assessment and verification of constancy of performance 3) in accordance with the Construction Products Regulation (EU) No 305/2011 to defined harmonised conditions for the marketing of construction products (Construction Products Regulation - CPR)

Decision / resolution of the Commission	System ¹⁾	Technical specification
1995/467/EC Gypsum products	3	EN 520:2004+A1:2009 Gypsum plasterboards - Definitions, requirements and test methods
		EN 12859:2011 Gypsum blocks - Definitions, requirements and test methods
		EN 12860:2001+AC:2002 Gypsum based adhesives for gypsum blocks - Definitions, requirements and test methods
		EN 13963:2005+AC:2006 Jointing materials for gypsum boards - Definitions, requirements and test methods
		EN 15283-1:2008+A1:2009 Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 1: Gypsum boards with mat reinforcement
		EN 15283-2:2008+A1:2009 Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 2: Gypsum fibre boards
1996/580/EC Curtain wallings	3	EN 13830:2003 Curtain walling - Product standard
1997/462/EC Wood-based panels	3	EN 13986:2004+A1:2015 Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking
1997/808/EC Floorings	3	EN 13813:2002 Screed material and floor screeds - Screed materials - Properties and requirements
1998/436/EC Roof coverings, rooflights, roof windows and ancillary products	3	EN 492:2012+A2:2018 Fibre-cement slates and fittings - Product specification and test methods
		EN 14351-1:2006+A2:2016 Windows and doors — Product standard, performance characteristics — Part 1: Windows and external pedestrian doorsets
1998/437/EC Internal and external wall and ceiling finishes	3	EN 12467:2012+A2:2018 Fibre-cement flat sheets - Product specification and test methods

Decision / resolution of the Commission	System ¹⁾	Technical specification
1998/437/EC Internal and external wall and ceiling finishes	3	EN 13964:2014 Suspended ceilings - Requirements and test methods
		EN 14716:2004 Stretched ceilings - Requirements and tests methods
		EN 15102:2007+A1:2011 Decorative wall coverings - Roll and panel form
1999/91/EC Thermal insulation products	3	EN 13162:2012+A1:2015 Thermal insulation products for buildings - Factory made mineral wool (MW) products - Specification
		EN 13163:2012+A1:2015 Thermal insulation products for buildings - Factory made expanded polystyrene (EPS) products - Specification
		EN 13164:2012+A1:2015 Thermal insulation products for buildings - Factory made extruded polystyrene foam (XPS) products - Specification
		EN 13165:2012+A1:2015 Thermal insulation products for buildings - Factory made rigid polyurethane foam (PU) products - Specification
		EN 13166:2012+A1:2015 Thermal insulation products for buildings - Factory made phenolic foam (PF) products - Specification
		EN 13167:2012+A1:2015 Thermal insulation products for buildings - Factory made cellular glass (CG) products – Specification
		EN 13168:2012+A1:2015 Thermal insulation products for buildings - Factory made wood wool (WW) products - Specification
		EN 13169:2012+A1:2015 Thermal insulation products for buildings - Factory made expanded perlite board (EPB) products - Specification
		EN 13170:2012+A1:2015 Thermal insulation products for buildings - Factory made products of expanded cork (ICB) - Specification
		EN 13171:2012+A1:2015 Thermal insulation products for buildings - Factory made wood fibre (WF) products - Specification

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Decision / resolution of the Commission	System ¹⁾	Technical specification
1999/93/EC Doors, windows, shutters, blinds, gates and related building hardware	3	EN 13241:2003+A2:2016 Industrial, commercial, garage doors and gates — Product standard, performance characteristics
		EN 14351-1:2006+A2:2016 Windows and doors — Product standard, performance characteristics — Part 1: Windows and external pedestrian doorsets
		EN 14351-2:2018²⁾ Windows and doors - Product standard, performance characteristics - Part 2: Internal pedestrian doorsets
1999/469/EC Products related to concrete, mortar and grout	3	EN 1504-2:2004 Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 2: Surface protection systems for concrete
		EN 1504-3:2005 Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 3: Structural and non-structural repair
		EN 1504-4:2004 Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 4: Structural bonding
		EN 1504-5:2004 Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 5: Concrete injection
		EN 1504-6:2006 Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 6: Anchoring of reinforcing steel bar
		EN 1504-7:2006 Products and systems for the protection and repair of concrete structures - Definitions, requirements, quality control and evaluation of conformity - Part 7: Reinforcement corrosion protection

¹⁾ System for the assessment and verification of constancy of performance

²⁾ Harmonization in preparation (planned system as indicated)

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The requirements for a testing laboratory are fulfilled according to article 43 of the Construction Products Regulation. Testing methods, which are necessary for determining the product type and cannot be executed by the holder of the certificate, are described in the list of subcontractors.

Without prior approval by the Deutsche Akkreditierungsstelle GmbH (German Accreditation Body), the testing laboratory body is permitted to use new revisions of the harmonised technical specifications.

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

6.1 Reaction to fire

EN ISO 1182 2010	Reaction to fire tests for products - Non-combustibility test
EN ISO 1716 2018	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)
EN ISO 9239-1 2010	Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source
EN ISO 11925-2 2020	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
EN 13823 2020	Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item

in conjunction with:

<i>EN 13501-1 2018</i>	<i>Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests</i>
<i>EN 13501-6 2018</i>	<i>Fire classification of construction products and building elements - Part 6: Classification using data from reaction to fire tests on power, control and communication cables</i>

6.2 Resistance to fire

EN 1364-1 2015	Fire resistance tests for non-loadbearing elements - Part 1: Walls
EN 1364-2 2018	Fire resistance tests on non-loadbearing elements - Part 2: Ceilings
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 for loadbearing elements - Part 2: Floors and roofs
EN 1365-3 1999	Fire resistance tests for loadbearing elements - Part 3: Beams
EN 1365-4 1999	Fire resistance tests on loadbearing elements - Part 4: Columns
EN 1366-1 2014+A1:2020	Fire resistance tests for service installations - Part 1: Ventilation ducts
EN 1366-2 2015	Fire resistance tests for service installations - Part 2: Fire dampers
EN 1366-3 2009	Fire resistance tests for service installations - Part 3: Penetration seals
EN 1366-4 2006+A1:2010	Fire resistance tests for service installations - Part 4: Linear joint seals
EN 1366-5 2010	Fire resistance tests for service installations - Part 5: Service ducts and shafts
EN 1366-6 2004	Fire resistance tests for service installations - Part 6: Raised access and hollow core floors
EN 1366-7 2004	Fire resistance tests for service installations - Part 7: Conveyor systems and their closures

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EN 1366-8 2004	Fire resistance tests for service installations - Part 8: Smoke extraction ducts
EN 1366-9 2008	Fire resistance tests for service installations - Part 9: Single compartment smoke extraction ducts
EN 1366-10 2011+A1:2017	Fire resistance tests for service installations - Part 10: Smoke control dampers
EN 1634-1 2014+A1:2018	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
EN 1634-2 2008	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
EN 1634-3 2004 Corrigenda 2009	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
EN 13381-1 2020	Test methods for determining the contribution to the fire resistance of structural members - Part 1: Horizontal protective membranes
EN 13381-2 2014	Test methods for determining the contribution to the fire resistance of structural members - Part 2: Vertical protective membranes
EN 13381-3 2015	Test methods for determining the contribution to the fire resistance of structural members - Part 3: Applied protection to concrete members
EN 13381-4 2013	Test methods for determining the contribution to the fire resistance of structural members - Part 4: Applied passive protection to steel members
EN 13381-5 2014	Test methods for determining the contribution to the fire resistance of structural members - Part 5: Applied protection to concrete/profiled sheet steel composite member
EN 13381-6 2012	Test methods for determining the contribution to the fire resistance of structural members - Part 6: Applied protection to concrete filled hollow steel columns

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EN 13381-7
2019 Test methods for determining the contribution to the fire resistance of structural members - Part 7: Applied protection to timber members

EN 13381-8
2013 Test methods for determining the contribution to the fire resistance of structural members - Part 8: Applied reactive protection to steel members

in conjunction with:

EN 13501-2 Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services

*EN 13501-3
2005
+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*

*EN 13501-4
2016 Fire classification of construction products and building elements - Part 4: Classification using data from fire resistance tests on components of smoke control systems*

6.3 External fire performance

CEN/TS 1187
2012 Test methods for external fire exposure to roofs;
here: Test Method 1

in conjunction with:

EN 13501-5 Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests

The requirements for a testing laboratory are fulfilled according to article 43 of the Construction Products Regulation.

Abbreviations used:

CEN	Comité Européen de Normalisation / European Committee for Standardisation
DIBt	Deutsches Institut für Bautechnik
DIN	Deutsches Institut für Normung / German Institute for Standardisation
EAD	European Assessment Documents
EC	European Community
EN	Europäische Norm / European standard
ETAG	European Technical Approval Guideline
IMO FTP	International Maritime Organization – Fire Test Procedures
ISO	International Organization for Standardization
NMP	Normenprüfausschuss
SPEC	DIN Specification
TS	Technical Specification