

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-11021-01-00
according to DIN EN ISO/IEC 17025:2018

Indefinite since: 29.04.2019

Date of issue: 29.04.2019

Holder of certificate:

**Gesellschaft für Materialforschung und Prüfungsanstalt für das Bauwesen
Leipzig mbH**

For its testing laboratories

**Mineral building materials,
Metal construction, fastening and joining technology,
Construction chemistry and environmental analytics,
Experimental structural mechanics
Thermal insulation and moisture protection,
Sound insulation,
Structural sealing,
Subsoil and road construction laboratory, aggregates
Hans-Weigel-Straße 2B, 04319 Leipzig**

and

**Fire behaviour of building materials
Fire behaviour of structural components and special constructions
Hans-Weigel-Straße 2B, 04319 Leipzig
MFPA-Allee 1, 04509 Laue**

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

Abbreviations used: see last page

*The certificate together with its annex reflects the status at the time of the date of issue. The current status of the scope of accreditation can be found in the database of accredited bodies of Deutsche Akkreditierungsstelle GmbH.
<https://www.dakks.de/en/content/accredited-bodies-dakks>*

Annex to the Accreditation Certificate D-PL-11021-01-00

Tests in the fields:

Testing of mechanical, physical and geometrical properties, the durability of concrete, fibre concrete, concrete products, mortar, binder, aggregates, subsoil, wood and wood-based materials, sealing sheets and coatings for sealing the buildings of insulating and non-insulating materials;

testing of watertightness, consistency and aging of sealing sheets and coatings, functionality of sealing procedure and injection materials, environmental compatibility of sealing products and injection materials, testing of chemical consistency, consistency against environmental factors and ageing behaviour, identification tests and quantitative analysis of mineral building products and binder, plastics, sealing and coating materials, textile and fibre-reinforced materials and polymer fibres for concrete and laminates; testing of mechanical, physical and geometric properties, durability, chemical analysis, stationary and ambulant metallography and nondestructive testing of metallic materials, welded joints, steel and polymer fibres for concrete, reinforcements and concrete reinforcement steel products, anticorrosive coatings and components of the sanitary and heating construction, building and metal constructions; Optical emission spectroscopy (OES) for steel and iron materials and non-iron materials; experimental testing for structural safety of existing constructions and constructional elements; testing of post tensioning kits for prestressing of structures; testing of mechanical, physical and geometrical properties and of usability and load bearing capacity of pipe systems, seepage elements, pipes and manholes of plastic, concrete, reinforced concrete and stoneware as well as manhole covers, pipe joints and seals, drainage channels, steps and fixed ladders; testing of thermal and hygrical properties, thermal conductivity, water vapour transmission, dynamical stiffness and flow resistance of insulating and non-insulating materials; hygrothermal behaviour of external walls in the wall test rig; testing of burglar resistance, testing of permanent functionality and smoke-tightness of windows, doors and gates; testing of acoustical and mechanical properties as well as acoustic and mechanic long term performance of road traffic noise reducing devices, noise protection walls and cognate appliance to the influence of airborne sound expansion; determination of airborne and impact sound insulation, of reduction and acoustical absorption in constructional elements;

determination and testing of emissions and immisions of noise (group V) and vibrations (group VI) – within the scope of module Immssion control;

Testing of fire behaviour and fire resistance of building materials, structural components construction products and builds;

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, of resistance to fire, of external fire performance and of noise absorption, for which the reference to a relevant harmonised technical specification is not required (point 3. Annex V, (EU) Nr. 305/2011)

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The testing methods are identified with the symbols below, according to the sites where the testing was performed:

Le = Leipzig

La = Laue

Within the given testing field marked with *), the testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, the free choice of standard or equivalent testing methods. The listed testing methods are exemplary.

The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

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 Concrete and concrete products (Le)

1.1 Concrete

DIN 1048-2 1991-06	Testing concrete; testing of hardened concrete (specimens taken in situ) <i>(whitdrawn standard)</i>
DIN 52108 2010-05	Testing of inorganic non-metallic materials - Wear test using the grinding wheel according to Böhme - Grinding wheel method
DIN EN 480-11 2005-12	Admixtures for concrete, mortar and grout - Test methods - Part 11: Determination of air void characteristics in hardened concrete
DIN EN 12350-1 2009-08	Testing fresh concrete - Part 1: Sampling
DIN EN 12350-3 2009-08	Testing fresh concrete - Part 3: Vebe test
DIN EN 12390-1 2012-12	Testing hardened concrete - Part 1: Shape, dimensions and other requirements for specimens and moulds

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DIN EN 12390-2 2009-08 + Corrigendum 1 2012-02 + Amendment A20 2015-20	Testing hardened concrete - Part 2: Making and curing specimens for strength tests
DIN EN 12390-3 2009-07 + Corrigendum1 2011-11	Testing hardened concrete - Part 3: Compressive strength of test specimens
DIN EN 12390-5 2009-07	Testing hardened concrete - Part 5: Flexural strength of test specimens
DIN EN 12390-8 2009-07	Testing hardened concrete - Part 8: Depth of penetration of water under pressure
ISO 1920-4 2005-07	Testing of concrete - Part 4: Strength of hardened concrete
DAfStb Manual 401 1989	Instructions for the determination of chlorine content in concrete - Section 4.5: Chloride content determination by photometry
BAW-leaflet 2012-11	Resistance of concrete to chloride ingress
NT Build 492 1999-11	Concrete, mortar and cement-based repair materials: Chloride migration coefficient from non-steady-state migration experiments

1.2 Fibre concrete

DIN EN 14488-3 2006-09	Testing sprayed concrete - Part 3: Flexural strengths (first peak, ultimate and residual) of fibre reinforced beam specimens
DIN EN 14651 2007-12	Test method for metallic fibre concrete - Measuring the flexural tensile strength (limit or proportionality (LOP), residual)
DAfStb Guidelines 2012-11	Guidelines of the German Reinforced Steel Committee „Steel fibre concrete“

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DBV-Merkblatt (leaflet) 2001-10	Steel fibre concrete
ÖBVV-Richtlinie (directive) 2015-04	Enhanced fire protection with concrete for subterranean traffic structures – Determination of polypropylene (PP) fibre content in fresh and hardened concrete (microfibres) – here: annex 4 – test methods fresh concrete and 5 – test methods hardened concrete
ÖVBB-Richtlinie (directive) 2008-07	Fibre-reinforced concrete - Determination of polypropylene (PP) fibre content in hardened concrete (microfibres), Annex 6

1.3 Precast concrete, concrete goods

DIN 483 2005-10	Concrete kerb units - Shapes, dimensions, marking
DIN EN 679 2005-09	Determination of the compressive strength of autoclaved aerated concrete
DIN EN 772-1 2016-05	Methods of test for masonry units - Part 1: Determination of compressive strength
DIN EN 1170-5 1998-01	Precast concrete products - Test method for glass-fibre reinforced cement - Part 5: Measuring bending strength; "complete bending test" method
DIN EN 1338 2003-08 + Corrigendum 1 2006-11	Concrete paving blocks - Requirements and test methods– Annexes C, D, E, F, H and J
DIN EN 1339 2003-08 + Corrigendum 1 2006-11	Concrete paving flags - Requirements and test methods Annexes C, D, E, F, H and J
DIN EN 1340 2003-08 + Corrigendum 1 2006-11	Concrete kerb units - Requirements and test methods Annexes C, D, E, F, H and J

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DIN EN 12504-1 2009-07	Testing concrete in structures - Part 1: Cored specimens - Taking, examining and testing in compression
DIN EN 13791 2008-05+ DIN EN 13791/A20 Amendment 2017-02	Assessment of in-situ compressive strength in structures and precast concrete components

1.4 Concrete construction

EAD 160004-00-0301	Post-tensioning systems for prestressing of structures except Annex C.2.2 - statistical loading in low temperatures
ETAG 013 2006-05	Guideline for European Technical Approval of post tensioning kits for prestressing of structures – Testing of prestressing – Annex B except Annex B 1.2 - statistical loading in low temperatures
DIN EN 13391 2004-06	Mechanical tests for post-tensioning systems

Experimental testing for structural safety of existing constructions and constructional elements
*

The testing areas for flexible accreditation are characterised by the measured values in the table below.

Type of test	Measurand/ test parameter	Measurement and test range	max. uncertainty of measure- ment	Testing standard/ characteristic method*
Bending Pull Compression	Deformation with DMS	0 - 200.000 µm/m	5,00 %	DAfStb-Rili Load tests on concrete structures
	Deformation	0 – 500 mm	1,20 %	
	Force	0 – 5000 kN	0,75 %	
Dimensions	Length	0 – 300 mm	1,20 %	
		0 – 200 m	1,50 %	

Due to the nature of the technique, there is no total uncertainty in the overall result. The permissible normative load capacities given in the result are on the basis of the addition of the individual uncertainty and their consideration in the transmission factor is always on the safe side.

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Characteristic testing method *

DAfSt-Richtlinie (directive) Load tests on concrete structures
2000-09

2. Binder (Le)

DIN 18555-3 Testing of mortars containing mineral binders; hardened
1982-09 mortars; determination of flexural strength, compressive
 strength and bulk density
 (*withdrawn standard*)

DIN EN 196-1 Methods of testing cement - Part 1: Determination of strength
2016-11

DIN EN 196-2 Method of testing cement - Part 2: Chemical analysis of cement
2013-10 clause 4.4.2 Determination of the sulphate

DIN EN 1015-2 Methods of test for mortar for masonry - Part 2: Bulk sampling
2007-05 of mortars and preparation of test mortars

DIN EN 1015-3 Methods of test for mortar for masonry - Part 3: Determination
2007-05 of consistence of fresh mortar (by flow table)

DIN EN 1015-6 Methods of test for mortar for masonry - Part 6: Determination
2007-05 of bulk density of fresh mortar

DIN EN 1015-7 Methods of test for mortar for masonry - Part 7: Determination
1998-12 of air content of fresh mortar

DIN EN 1015-11 Methods of test for mortar for masonry - Part 11: Determination
2007-05 of flexural and compressive strength of hardened mortar

DIN EN 12004-02 Adhesives for ceramic tiles - Part 2: Test methods
2017-05

DIN EN 12467 Fibre-cement flat sheets - Product specification and test
2018-07 methods
 clause 7.3.5: Warm water
 clause 7.4.6: Soak-dry
 clause 7.4.1: Freeze-thaw

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DIN EN 13892-2
2003-02

Methods of test for screed materials - Part 2: Determination of
flexural and compressive strength

2.1 Testing of mineral-based constructional material behaviour under climatic stressing (with and without de-icing agent)*

The testing areas for flexible accreditation are characterised by the measured values in the table below.

Type of test	Measurand/ test parameter	Measurement and test range	Uncertainty of measurement	Testing standard/ characteristic method*
Climatic stressing	Weathering amount due to freeze-thaw test with de-icing salt	0 to 1,5 kg/m ²	5 %	DIN EN 1338 DIN EN 1339 DIN EN 1340
	Weathering amount CDF due to freeze- thaw test with de-icing salt	0 to 1,5 kg/m ²	5 %	BAW leaflet Frostprüfung (Freeze test)
	Weathering amount CIF due to freeze-thaw test with de-icing salt	0 to 0,5 kg/m ²	5 %	BAW leaflet Frostprüfung (Freeze test)
	Weathering amount CF/CDF due to freeze- thaw test with de-icing salt	0 to 1,5 kg/m ²	5 %	CEN/TS 12390-9

Characteristic testing methods *

DIN EN 1338
2003-08 +
Corrigendum 1
2006-11

Concrete paving blocks - Requirements and test methods -
Annex D: Determination of freeze-thaw resistance with
de-icing salt

DIN EN 1339
2003-08 +
Corrigendum 1
2006-11

Concrete paving flags - Requirements and test methods -
Annex D: Determination of freeze-thaw resistance with de-icing
salt

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DIN EN 1340 2003-08 + Corrigendum 1 2006-11	Concrete kerb units - Requirements and test methods - Annex D: Determination of freeze-thaw resistance with de-icing salt
DIN CEN/TS 12390-9 2017-05	Testing hardened concrete - Part 9: Freeze-thaw resistance - Scaling
Saxonian Testing Guidelines 2002-12 in conjunction with SMWA directive of 11.01.2005	Testing of concrete – Determination of the freeze-thaw resistance of cement-bound constructional elements <i>(in German)</i>
BAW leaflet "Frostprüfung" (Freeze test) 2012-09	Freeze test for concrete <i>(in German)</i>

3. Aggregates (Le)

DIN EN 932-1 1996-11	Test for general properties of aggregates - Part 1: Methods for sampling
DIN EN 932-2 1999-03	Test for general properties of aggregates - Part 2: Methods for reducing laboratory samples
DIN EN 932-3 2003-12	Tests for general properties of aggregates - Part 3: Procedure and terminology for simplified petrographic description
DIN EN 933-1 2012-03	Tests for geometrical properties of aggregates - Part 1: Determination of particle size distribution - Sieving method
DIN EN 933-2 1996-01	Test for geometrical properties of aggregates - Part 2: Determination of particle size distribution; test sieves, nominal size of apertures
DIN EN 933-3 2012-04	Tests for geometrical properties of aggregates - Part 3: Determination of particle shape - Flakiness index
DIN EN 933-4 2015-01	Tests for geometrical properties of aggregates - Part 4: Determination of particle shape - Shape index

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DIN EN 933-5 2005-02	Tests for geometrical properties of aggregates - Part 5: Determination of percentage of crushed and broken surfaces in coarse aggregate particles
DIN EN 933-6 2014-07	Test for geometrical properties of aggregates - Determination of surface characteristics - Part 6: Flow coefficient of aggregates
DIN EN 933-7 1998-05	Tests for geometrical properties of aggregates - Part 7: Determination of shell content; percentage of shells in coarse aggregates
DIN EN 933-9 2013-07	Tests for geometrical properties of aggregates - Part 9: Assessment of fines - Methylene blue test
DIN EN 933-11 2011-05	Tests for geometrical properties of aggregates - Part 11: Classification test for the constituents of coarse recycled aggregate
DIN EN 1097-2 2010-07	Tests for mechanical and physical properties of aggregates - Part 2: Methods for the determination of resistance to fragmentation
DIN EN 1097-3 1998-06	Tests for mechanical and physical properties of aggregates - Part 3: Determination of loose bulk density and voids
DIN EN 1097-5 2008-06 + Corrigendum 1 2008-09	Tests for mechanical and physical properties of aggregates - Part 5: Determination of the water content by drying in a ventilated oven
DIN EN 1097-6 2013-09	Tests for mechanical and physical properties of aggregates - Part 6: Determination of particle density and water absorption
DIN EN 1367-1 2007-06	Tests for thermal and weathering properties of aggregates - Part 1: Determination of resistance to freezing and thawing
DIN EN 1367-2 2010-02	Tests for thermal and weathering properties of aggregates - Part 2: Magnesium sulfate test
DIN EN 1367-5 2011-04	Tests for thermal and weathering properties of aggregates - Part 5: Determination of resistance to thermal shock

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DIN EN 1367-6 2008-12	Tests for thermal and weathering properties of aggregates - Part 6: Determination of resistance to freezing and thawing in the presence of salt (NaCl)
DIN EN 1744-1 2013-03	Tests for chemical properties of aggregates - Part 1: Chemical analysis clauses 14.2, 15.1 and 17

4. Subsoil /soil (Le)

DIN 18123 2011-04	Soil, investigation and testing - Determination of grain-size distribution <i>(withdrawn standard)</i>
DIN 18124 2011-04	Soil, investigation and testing - Determination of density of solid particles - Capillary pycnometer, wide mouth pycnometer, gas pycnometer without 7.5 – gas pycnometer <i>(withdrawn standard)</i>
DIN 18128 2002-12	Soil - Investigation and testing - Determination of ignition loss
DIN EN ISO 17892-1 2015-03	Geotechnical investigation and testing - Laboratory testing of soil - Part 1: Determination of water content
DIN EN ISO 17892-3 2016-07	Geotechnical investigation and testing - Laboratory testing of soil - Part 3: Determination of particle density
DIN EN ISO 17892-4 2017-04	Geotechnical investigation and testing - Laboratory testing of soil - Part 4: Determination of particle size distribution

5. Metallic material, metallic alloys and coatings, metal construction (Le)

5.1 Metallic materials

ISO 4968 1979-11	Steel; Macrographic examination by sulfur print (Baumann method)
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5.2 Metallic alloys

DIN 54150 1977-08	Non-destructive testing; impression methods for surface examination (Replica-technique) <i>(withdrawn standard)</i>
DIN EN ISO 1463 2004-08	Metallic and oxide coatings - Measurement of coating thickness - Microscopical method
DIN EN ISO 2178 2016-11	Non-magnetic coatings on magnetic substrates - Measurement of coating thickness - Magnetic method
DIN EN ISO 2360 2017-12	Non-conductive coatings on non-magnetic electrically conductive basis materials - Measurement of coating thickness - Amplitude-sensitive eddy current method
PrüfV-1.2-8/1_VA Internal test procedure 01.08.2016	Optical spark emission spectroscopy (OES) for the determination of 19 elements in steel and iron materials and in copper- and aluminium-based alloys

5.3 Metal constructions

DIN EN ISO 17639 2013-12	Destructive tests on welds in metallic materials - Macroscopic and microscopic examination of welds
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5.4 Fibres for concrete

DIN EN 14889-1 2006-11	Fibres for concrete - Part 1: Steel fibres - Definitions, specifications and conformity
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5.5 Mechanical testing of metallic materials, constructional elements and metal constructions*

The testing areas for flexible accreditation are characterised by the measured values in the table below.

Type of test	Measurand/ test parameter	Measurement and test range	Uncertainty of measurement	Testing standard/ characteristic method*
Compression	Force	0 - 1500 kN	0,7 %	DIN 50106
Traction	Force	0 - 1500 kN	0,7 %	DIN EN ISO 6892-1
Shear load	Force	0 - 400 kN	0,7 %	DIN EN ISO 15630-1
Vibration	Force	0 - 500 kN -150 to 150 kN	0,7 %	DIN 50100
	Load cycle	0 - 100 ⁶	without	
Hardness	HB	HBW 2,5/15,6 to HBW 2,5/187,5	2,2 %	DIN EN ISO 6506-1
	HV	HV1 - HV30	2,2 %	DIN EN ISO 6507-1
	HRC	HRC20-HRC60	2,2 %	DIN EN ISO 6508-1
Impact loading	Impact energy	0 - 300 J	4,4 %	DIN EN ISO 148-1
	Temperature	-20 °C to 40°C	0,8 K	
Bending	Angle	0 - 180°	1 %	DIN EN ISO 7438
	Angle deviation		14'	
Deformation		10 - 200 mm	0,6 %	DIN EN ISO 6892-1
	Trajectory	0 - 400 mm	0,7 %	

¹⁾ lowest achievable uncertainty of measurement

Characteristic testing methods *

DIN 488-2 2009-08	Reinforcing steels - Reinforcing steel bars clause 7.3.3 – Bend performance clause 7.3.6 – Surface geometry
DIN 488-3 2009-08	Reinforcing steels - Reinforcing steel in coils, steel wire clause 7.3.4 – Bend performance clause 7.3.7 – Surface geometry
DIN 488-4 2009-08	Reinforcing steels - Welded fabric clause 6.2.2 – Shear force of the welded joints clause 6.2.5 – Bend test on the weld clause 6.3 – Dimensions and masses

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DIN 488-5 2009-08	Reinforcing steels - Lattice girders clause 6.2.2 – Shear force of the welded joints clause 6.3 – Form, dimensions and limit deviations of the lattice girders
DIN 50100 2016-12	Load controlled fatigue testing - Execution and evaluation of cyclic tests at constant load amplitudes on metallic specimens and components
DIN 50106 2016-11	Testing of metallic materials - Compression test at room temperature
DIN 50141 1982-01	Testing of metals; Shear test <i>(withdrawn standard)</i>
DIN EN 10002-1 2001-12	Metallic materials - Tensile testing - Part 1: Method of testing at ambient temperature <i>(withdrawn standard, replaced by DIN EN ISO 6892-1)</i>
DIN EN 10080 2005-08	Steel for the reinforcement of concrete - Weldable reinforcing steel – General - clause 9, Annexes B-D
DIN EN 14195 2015-03	Metal framing components for gypsum plasterboard systems - Definitions, requirements and test methods clause 5.1
DIN EN ISO 148-1 2017-05	Metallic materials - Charpy pendulum impact test - Part 1: Test method (here: only temperature range: -40°C to room temperature)
DIN EN ISO 6506-1 2015-02	Metallic materials - Brinell hardness test - Part 1: Test method
DIN EN ISO 6507-1 2018-07	Metallic materials - Vickers hardness test - Part 1: Test method
DIN EN ISO 6892-1 2017-02	Metallic materials - Tensile testing - Part 1: Method of test at room temperature
DIN EN ISO 6892-2 2018-09	Metallic materials - Tensile testing - Part 2: Method of test at elevated temperature
DIN EN ISO 7438 2016-07	Metallic materials - Bend test

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DIN EN ISO 15630-1 2011-02	Steel for the reinforcement and prestressing of concrete - Test methods - Part 1: Reinforcing bars, wire rod and wire
DIN EN ISO 15630-2 2011-02	Stähle für die Bewehrung und das Vorspannen von Beton - Prüfverfahren - Teil 2: Geschweißte Matten
DIN EN ISO 15630-3 2011-02	Steel for the reinforcement and prestressing of concrete - Test methods - Part 3: Prestressing steel
DIN EN ISO 17660-1 2006-12 + Corrigendum1 2007-08	Welding - Welding of reinforcing steel - Part 1: Load-bearing welded joints
DIN EN ISO 17660-2 2006-12 + Corrigendum 1 2007-08	Welding - Welding of reinforcing steel - Part 2: Non load-bearing welded joints

6. Wood and wood-based materials (Le)

DIN EN 310 1993-08	Wood-based panels; determination of modulus of elasticity in bending and of bending strength
DIN EN 314-1 2005-03	Plywood - Bonding quality - Part 1: Test methods
DIN EN 317 1993-08	Particleboards and fibreboards; determination of swelling in thickness after immersion in water
DIN EN 318 2002-06	Wood-based panels - Determination of dimensional changes associated with changes in relative humidity
DIN EN 319 1993-08	Particleboards and fibreboards; determination of tensile strength perpendicular to the plane of the board
DIN EN 320 2011-07	Particleboards and fibreboards - Determination of resistance to axial withdrawal of screws
DIN EN 321 2002-03	Wood-based panels - Determination of moisture resistance under cyclic test conditions
DIN EN 324-1 1993-08	Wood-based panels; determination of dimensions of boards; part 1: determination of thickness, width and length

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DIN EN 324-2 1993-08	Wood-based panels; determination of dimensions of boards; part 2: determination of squareness and edge straightness
DIN EN 408 2012-10	Timber structures - Structural timber and glued laminated timber - Determination of some physical and mechanical properties
DIN EN 594 2011-09	Timber structures - Test methods - Racking strength and stiffness of timber frame wall panels
DIN EN 596 1996-07	Timber structures - Test methods - Soft body impact test of timber framed walls
DIN EN 789 2005-01	Timber structures - Test methods - Determination of mechanical properties of wood based panels
DIN EN 1087-1 1995-04	Particleboards - Determination of moisture resistance - Part 1: Boil test
DIN EN 1156 2013-10	Wood-based panels - Determination of duration of load and creep factors
DIN EN 1195 1998-06	Timber structures - Test methods - Performance of structural floor decking
DIN EN 12871 2013-09	Wood-based panels - Determination of performance characteristics for load bearing panels for use in floors, roofs and walls
DIN EN 13354 2009-02	Solid wood panels (SWP) - Bonding quality - Test method
DIN EN 14279 2009-07	Laminated veneer lumber (LVL) - Definitions, classification and specifications
DIN EN 14755 2006-01	Extruded particleboards - Specifications

7. Insulating materials (Le)

DIN EN 822 2013-05	Thermal insulating products for building applications - Determination of length and width
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DIN EN 823 2013-05	Thermal insulating products for building applications - Determination of thickness
DIN EN 824 2013-05	Thermal insulating products for building applications - Determination of squareness
DIN EN 825 2013-05	Thermal insulating products for building applications - Determination of flatness
DIN EN 826 2013-05	Thermal insulating products for building applications - Determination of compression behaviour
DIN EN 1602 2013-05	Thermal insulating products for building applications - Determination of the apparent density
DIN EN 1603 2013-05	Thermal insulating products for building applications - Determination of dimensional stability under constant normal laboratory conditions (23 °C/ 50 % relative humidity)
DIN EN 1604 2013-05	Thermal insulating products for building applications - Determination of dimensional stability under specified temperature and humidity conditions
DIN EN 1605 2013-05	Thermal insulating products for building applications - Determination of deformation under specified compressive load and temperature conditions
DIN EN 1606 2013-05	Thermal insulating products for building applications - Determination of compressive creep
DIN EN 1607 2013-05	Thermal insulating products for building applications - Determination of tensile strength perpendicular to faces
DIN EN 1608 2013-05	Thermal insulating products for building applications - Determination of tensile strength parallel to faces
DIN EN 1609 2013-05	Thermal insulating products for building applications - Determination of short term water absorption by partial immersion
DIN EN 12085 2013-06	Thermal insulating products for building applications - Determination of linear dimensions of test specimen

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DIN EN 12087 2013-06	Thermal insulating products for building applications - Determination of long term water absorption by immersion
DIN EN 12088 2013-06	Thermal insulating products for building applications - Determination of long term water absorption by diffusion
DIN EN 12089 2013-06	Thermal insulating products for building applications - Determination of bending behaviour
DIN EN 12090 2013-06	Thermal insulating products for building applications - Determination of shear behaviour
DIN EN 12091 2013-06	Thermal insulating products for building applications - Determination of freeze-thaw resistance
DIN EN 12431 2013-05	Thermal insulating products for building applications - Determination of thickness for floating floor insulating products (compressibility)
DIN EN 12664 2001-05	Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Dry and moist products with medium and low thermal resistance
DIN EN 12667 2001-05	Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Products of high and medium thermal resistance
DIN EN 13496 2013-12	Thermal insulation products for building applications - Determination of the mechanical properties of glass fibre meshes as reinforcement for External Thermal Insulation Composite Systems with renders (ETICS)
DIN EN ISO 12570 2018-07	Hygrothermal performance of building materials and products - Determination of moisture content by drying at elevated temperature
DIN EN ISO 12571 2013-12	Hygrothermal performance of building materials and products - Determination of hygroscopic sorption properties

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ETAG 004
2013-02

Guideline for European Technical Approval of external thermal insulation composite systems (ETICS) with rendering clause
clause 5.6.7.1: Textiles glass grids - tear strength and displacement of reinforced fabric

Internal test procedure
PrüfV-4.1-25
07.03.2014

Testing of specific heat capacity – Kohlrausch method

7.1 Water vapour transmission properties*

The testing areas for flexible accreditation are characterised by the measured values in the table below.

Type of test	Measurand/ test parameter	Measurement and test range	Uncertainty of measurement	Testing standard/ characteristic method*
Water vapour permeability	Water vapour diffusion resistance coefficient μ and water vapour diffusion-equivalent air layer thickness s_d	0,1 m to 1500m	1,8 %	DIN 53122-1 2001-06
				DIN EN 772-15 2009-09
				DIN EN 1931 2001-03
				DIN EN 12086 2013-06
				DIN EN ISO 7783 2012-02
				DIN EN ISO 12572 2001-09

Characteristic testing methods *

DIN 53122-1
2001-08

Testing of plastics and elastomer films, paper, board and other sheet materials - Determination of water vapour transmission - Part 1: Gravimetric method

DIN EN 772-15
2000-09

Methods of test for masonry units - Part 15: Determination of water vapour permeability of autoclaved aerated concrete masonry units

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DIN EN 1931 2001-03	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of water vapour transmission properties
DIN EN 12086 2013-06	Thermal insulating products for building applications - Determination of water vapour transmission properties
DIN EN ISO 7783 2019-02	Paints and varnishes - Determination of water-vapour transmission properties - Cup method
DIN EN ISO 12572 2017-05	Hygrothermal performance of building materials and products - Determination of water vapour transmission properties - Cup method

8. Plastics (Le)

8.1 Material characteristics

DIN EN 59 2016-06	Glass reinforced plastics; Measurement of hardness by means of a Barcol impressor
DIN EN 580 2003-08	Plastics piping systems - Unplasticized poly(vinyl chloride) (PVC-U) pipes - Test method for the resistance to dichloromethane at a specified temperature (DCMT) <i>(withdrawn standard)</i>
DIN EN 61006 2004-11	Electrical insulating materials - Methods of test for the determination of the glass transition temperature
DIN EN ISO 62 2008-05	Plastics - Determination of water absorption
DIN EN ISO 178 2013-09	Plastics - Determination of flexural properties
DIN EN ISO 179-1 2010-11	Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test
DIN EN ISO 604 2003-12	Plastics – Determination of compressive properties

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DIN EN ISO 1133-1 2012-03	Plastics - Determination of the melt mass-flow rate (MFR) and melt volume-flow rate (MVR) of thermoplastics - Part 1: Standard method here: Determination of the melt mass-flow rate (MFR)
DIN EN ISO 1183-1 2013-04	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method (ISO 1183-1:2012); Method A - immersion method Method B - liquid pycnometer method and titration method
DIN EN ISO 2039-1 2003-06	Plastics - Determination of hardness - Part 1: Ball indentation method
DIN EN ISO 2811-1 2016-08	Paints and varnishes - Determination of density - Part 1: Pycnometer method
DIN EN ISO 11357-3 2018-07	Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization clause 10.1 – Determination of transition temperatures
DIN EN ISO 11357-6 2018-07	Plastics - Differential scanning calorimetry (DSC) - Part 6: Determination of oxidation induction time (isothermal OIT) and oxidation induction temperature (dynamic OIT)
DIN EN ISO 11358-1 2014-10	Plastics - Thermogravimetry (TG) of polymers - General principles

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7.1.1 Tensile force and tensile strength testing *

The testing areas for flexible accreditation are characterised by the measured values in the table below.

Type of test	Measurand/ test parameter	Measurement and test range	Uncertainty of measurement	Testing standard/ characteristic method*
Tensile strength (plastics, elastomers, rubber)	Tensile force	1 to 50 kN	2,0 %	DIN 53504
				DIN EN 1979
				DIN EN ISO 527-1
				DIN EN ISO 527-2
				DIN EN ISO 527-3
				DIN EN ISO 527-4
				DIN EN ISO 527-5
				DIN EN ISO 13262
				ISO 37

¹⁾ lowest achievable uncertainty of measurement

Characteristic testing methods *

DIN EN ISO 527-1 2012-06	Plastics - Determination of tensile properties - Part 1: General principles
DIN EN ISO 527-2 2012-06	Plastics - Determination of tensile properties - Part 2: Test conditions for moulding and extrusion plastics
DIN EN ISO 527-3 2019-02	Plastics - Determination of tensile properties - Part 3: Test conditions for films and sheets
DIN EN ISO 527-4 1997-07	Plastics - Determination of tensile properties - Part 4: Test conditions for isotropic and orthotropic fibre-reinforced plastic composites
DIN EN ISO 527-5 2010-01	Plastics - Determination of tensile properties - Part 5: Test conditions for unidirectional fibre-reinforced plastic composites
DIN EN ISO 13262 2018-01	Thermoplastics piping systems for non-pressure underground drainage and sewerage - Thermoplastics spirally-formed structured-wall pipes - Determination of the tensile strength of a seam

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ISO 37 2017-11	Rubber, vulcanized or thermoplastic - Determination of tensile stress strain properties
DIN EN 12310-1 1999-11	Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing; determination of resistance to tearing (nail shank)
DIN EN 12310-2 2019-02	Flexible sheets for waterproofing - Determination of resistance to tearing - Part 2: Plastic and rubber sheets for roof waterproofing
DIN EN 12311-1 1999-11	Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing; Determination of tensile properties
DIN EN 12311-2 2013-11	Flexible sheets for waterproofing - Determination of tensile properties - Part 2: Plastic and rubber sheets for roof waterproofing
DIN EN 12316-1 1999-11	Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing; determination of peel resistance of joints
DIN EN 12316-2 2013-08	Flexible sheets for waterproofing - Determination of peel resistance of joints - Part 2: Plastic and rubber sheets for roof waterproofing
DIN EN 12317-1 1999-11	Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing; determination of shear resistance of joints
DIN EN 12317-2 2010-12	Flexible sheets for waterproofing - Determination of shear resistance of joints - Part 2: Plastic and rubber sheets for roof waterproofing

8.2 Characteristics of laminates

DIN EN 2564 2018-12	Aerospace series - Carbon fibre laminates - Determination of the fibre-, resin- and void contents
DIN EN ISO 1172 1998-12	Textile-glass-reinforced plastics - Prepregs, moulding compounds and laminates - Determination of the textile-glass and mineral-filler content; calcination methods

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8.3 Fibres for concrete

DIN EN 14889-2
2006-11 Fibres for concrete - Part 2: Polymer fibres - Definitions, specifications and conformity

9. Pipes, manholes and fittings (Le)

9.1 Plastic components and –construction products

DIN 1187
1982-11 Unplasticized polyvinyl chloride (PVC-U) drainpipes; Dimensions, requirements, testing

DIN 4262-1
2009-10 Pipes and fittings for subsoil drainage of trafficked areas and underground engineering - Part 1: Pipes, fittings and their joints made from PVC-U, PP and PE

DIN EN 744
1995-08 Plastics piping and ducting systems - Thermoplastics pipes - Test method for resistance to external blows by the round-the-clock-method

DIN EN 1228
1996-08 Plastics piping systems - Glass-reinforced thermosetting plastics (GRP) pipes - Determination of initial specific ring stiffness

DIN EN 1329-1
2018-05 Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Unplasticized poly(vinyl chloride) (PVC-U) - Part 1: Specifications for pipes, fittings and the system

DIN EN 1401-1
2009-07 Plastics piping systems for non-pressure underground drainage and sewerage - Unplasticized poly(vinyl chloride) (PVC-U) - Part 1: Specifications for pipes, fittings and the system

DIN EN 1451-1
2018-10 Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Polypropylene (PP) - Part 1: Specifications for pipes, fittings and the system

DIN EN 1453-1
2017-09 Plastics piping systems with structured-wall pipes for soil and waste discharge (low and high temperature) inside buildings - Unplasticized poly(vinyl chloride) (PVC-U) - Part 1: Specifications for pipes and the system

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DIN EN 1519-1 2000-01	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Polyethylene (PE) - Part 1: Specifications for pipes, fittings and the system
DIN EN 1566-1 1999-12	Plastics piping systems for soil and waste discharge (low and high temperature) within the building structure - Chlorinated poly(vinyl chloride) (PVC-C) - Part 1: Specifications for pipes, fittings and the system
DIN EN 1852-1 2018-03	Plastics piping systems for non-pressure underground drainage and sewerage - Polypropylene (PP) - Part 1: Specifications for pipes, fittings and the system
DIN EN 12666-1 2011-11	Plastics piping systems for non-pressure underground drainage and sewerage - Polypropylene (PP) - Part 1: Specifications for pipes, fittings and the system
DIN EN 13476-2 2018-12	Plastics piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 2: Specifications for pipes and fittings with smooth internal and external surface and the system, Type A
DIN EN 13476-3 2018-12	Plastics piping systems for non-pressure underground drainage and sewerage - Structured-wall piping systems of unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 3: Specifications for pipes and fittings with smooth internal and profiled external surface and the system, Type B
DIN EN 13598-1 2011-02	Plastics piping systems for non-pressure underground drainage and sewerage - Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 1: Specifications for ancillary fittings including shallow inspection chambers
DIN EN 13598-2 2016-09	Plastics piping systems for non-pressure underground drainage and sewerage - Unplasticized poly(vinyl chloride) (PVC-U), polypropylene (PP) and polyethylene (PE) - Part 2: Specifications for manholes and inspection chambers
DIN EN 14758-1 2012-05	Plastics piping systems for non-pressure underground drainage and sewerage - Polypropylene with mineral modifiers (PP-MD) - Part 1: Specifications for pipes, fittings and the system

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DIN EN 14830 2007-01	Thermoplastics inspection chamber and manhole bases - Test methods for buckling resistance
DIN EN 14982 2011-01	Plastics piping and ducting systems - Thermoplastics shafts or risers for inspection chambers and manholes - Determination of ring stiffness
DIN EN ISO 580 2005-05	Plastics piping and ducting systems - Injection-moulded thermoplastics fittings - Methods for visually assessing the effects of heating, clause 4: Method A
DIN EN ISO 2505 2005-08	Thermoplastics pipes - Longitudinal reversion - Test methods and parameters– Test method after Section 5.2: Oven with forced air circulation
DIN EN ISO 3126 2005-05	Plastics piping systems - Plastics components - Determination of dimensions
DIN EN ISO 3127 2018-01	Thermoplastics pipes - Determination of resistance to external blows - Round-the-clock method
DIN EN ISO 9967 2016-07	Thermoplastics pipes - Determination of creep ratio
DIN EN ISO 9969 2016-06	Thermoplastics pipes - Determination of ring stiffness
DIN EN ISO 11173 2018-02	Thermoplastics pipes - Determination of resistance to external blows - Staircase method
DIN EN ISO 13255 2018-01	Thermoplastics piping systems for soil and waste discharge inside buildings - Test method for airtightness of joints
DIN EN ISO 13968 2009-01	Plastics piping and ducting systems - Thermoplastics pipes - Determination of ring flexibility
ISO 12091 1995-12	Structured-wall thermoplastics pipes - Oven test
DIN EN ISO 13263 2018-01	Thermoplastics piping systems for non-pressure underground drainage and sewerage - Thermoplastics fittings - Test method for impact strength

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DIN EN ISO 13264 2018-01	Thermoplastics piping systems for non-pressure underground drainage and sewerage - Thermoplastics fittings - Test method for mechanical strength or flexibility of fabricated fittings
ONR 22504-1 2010-08	Internal plastics linings for concrete manhole bases - Part 1: Polypropylene (PP) linings - Requirements, tests, quality control
ONR 22504-2 2010-08	Internal plastics linings for concrete manhole bases - Part 2: Linings made of glass reinforced thermosetting plastics based on polyester resins (GRP) - Requirements, tests, quality control
German Railway Standard DBS 918 064 2013-12	German Railway Standard – Technical delivers conditions, plastics piping and plastics manholes for the drainage of railway systems
PrüfV-5.2-47: Internal test procedure 2017-08-23	Plastic seepage elements for ground laying - testing of short term - load capacity and creep

9.2 Construction products made of concrete, reinforced concrete and stoneware

DIN V 1201 2004-08	Concrete pipes and fittings, unreinforced, steel fibre and reinforced for drains and sewers - Type 1 and Type 2 - Requirements, test methods and evaluation of conformity - clause 6
DIN V 4034-1 2004-08	Prefabricated concrete manholes, unreinforced, steel fibre and reinforced for drains and sewers - Type 1 and Type 2 - Part 1: Requirements, test methods and evaluation of conformity – clause 6 <i>(withdrawn standard)</i>
DIN 4034-2 2013-05	Prefabricated concrete manholes, unreinforced, steel fibre and reinforced - Part 2: Manholes for well construction and drain construction
DIN EN 295-1 2013-05	Vitrified clay pipe systems for drains and sewers - Part 1: Requirements for pipes, fittings and joints
DIN EN 295-3 2012-03	Vitrified clay pipe systems for drains and sewers - Part 3: Test methods

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DIN EN 295-7 2013-05	Vitrified clay pipe systems for drains and sewers - Part 7: Requirements for pipes and joints for pipe jacking
DIN EN 1916 2003-04	Concrete pipes and fittings, unreinforced, steel fibre and reinforced, clause 6
DIN EN 1917 2003-04	Concrete manholes and inspection chambers, unreinforced, steel fibre and reinforced, clause 6
Quality Guidelines FBS-Qualitätsrichtlinie:1-1 2011-07	Concrete piping and reinforced steel piping and jacking pipes with circular cross-section in FBS quality for buried sewage pipes and canals – Designs, requirements and testing methods – Product testing, clause 6
Quality Guidelines FBS-Qualitätsrichtlinie:1-2 2011-07	Concrete piping and reinforced steel piping with egg-shaped cross-section in FBS quality for buried sewage pipes and canals – Designs, requirements and testing methods – Product testing; clause 6
Quality Guidelines FBS-Qualitätsrichtlinie:2-1 2011-07	Prefabricated shaft components of concrete and reinforced concrete in FBS quality for buried sewage pipes and canals – Designs, requirements and testing methods – Product testing, clause 6
ZP WN 295 2016-01	DIN CERTCO certification programme - Glazed vitrified clay piping, pipe fittings and their accessories for sewage pipes and canals - DIN EN 295, Parts 1 to 7 here: 4.9 vertical load for connecting sockets C, 4.16 measurement of pipes and fittings, 4.17 assembly, function and setting of Elastomer-tightness profile for connections
ZP 295 2007-05	DIN CERTCO certification programme – Unglazed, sleeveless vitrified clay piping, pipe fittings and their accessories for sewage pipes and canals - DIN EN 295, Parts 1 to 7 here: 5.4.1 diameter and connection dimensions, 5.6.2 air tightness (special case)

9.3 Pipe joints and elastomer seals

DIN 4060 2016-07	Joints of sewer and drain pipes with elastomeric seals - Requirements and testing on joints with elastomeric seals: Test method 4.1 Watertightness
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DIN 53505 2000-08	Testing of rubber - Shore A and Shore D hardness test (<i>withdrawn standard</i>)
DIN EN 681-1 2006-11	Elastomeric seals - Material requirements for pipe joint seals used in water and drainage applications - Part 1: Vulcanized rubber except clause 4.2.9 – Ozone resistance
DIN EN 681-2 2006-11	Elastomeric seals - Material requirements for pipe joint seals used in water and drainage applications - Part 2: Thermoplastic elastomers except clause 4.2.9 – Ozone resistance
DIN ISO 48 2016-09	Rubber, vulcanized or thermoplastic - Determination of hardness (hardness between 10 IRHD and 100 IRHD) Method M - microhardness test
DIN ISO 815-1 2016-09	Rubber, vulcanized or thermoplastic - Determination of compression set - Part 1: At ambient or elevated temperatures
DIN ISO 815-2 2016-09	Elastomere oder thermoplastische Elastomere - Bestimmung des Druckverformungsrestes - Teil 2: Bei niedrigen Temperaturen
DIN ISO 1817 2016-11	Rubber, vulcanized - Determination of the effect of liquids
DIN ISO 3384-1 2015-12	Rubber, vulcanized or thermoplastic - Determination of stress relaxation in compression - Part 1: Testing at constant temperature
DIN EN ISO 868 2003-10	Plastics and ebonite - Determination of indentation hardness by means of a durometer (Shore hardness) here: Durometer Typ A (Shore hardness A)
DIN ISO 7619-1 2012-12	Rubber, vulcanized or thermoplastic - Determination of indentation hardness - Part 1: Durometer method (Shore hardness) Scale A – Elastomere in normal hardness
DIN ISO 7619-2 2012-02	Rubber, vulcanized or thermoplastic - Determination of indentation hardness - Part 2: IRHD pocket meter method
ISO 9691 1992-11	Rubber - Recommendations for the workmanship of joint rings - Description and classification of imperfections

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DIN EN ISO 13254 2018-01	Thermoplastics piping systems for non-pressure applications - Test method for watertightness
DIN EN ISO 13257 2019-04	Thermoplastics piping systems for non-pressure applications - Test method for resistance to elevated temperature cycling
DIN EN ISO 13259 2018-09	Thermoplastics piping systems for underground non-pressure applications - Test method for leaktightness of elastomeric sealing ring type joints

9.4 Manhole covers, drainage channels, steps, fixed ladders

DIN 1212-1 2003-05	Step irons with upstand for staggered manhole steps - Part 1: Step irons to be fitted in masonry or set into concrete here: clause 3
DIN 1212-2 2003-05	Step irons with upstand for staggered manhole steps - Part 2: Step irons to be set into prefabricated concrete units here: clause 3
DIN 1212-3 2010-04	Step irons with upstand for staggered manhole steps - Part 3: Bolted-on step irons here: clause 3
DIN 19580 2010-07	Drainage channels for vehicular and pedestrian areas - Durability, mass per unit area and evaluation of conformity
DIN EN 124-1 2015-09	Gully tops and manhole tops for vehicular and pedestrian areas - Part 1: Definitions, classification, general principles of design, performance requirements and test methods except clause 7.4
DIN EN 124-2 2015-09	Gully tops and manhole tops for vehicular and pedestrian areas - Part 2: Gully tops and manhole tops made of cast iron
DIN EN 124-3 2015-09	Gully tops and manhole tops for vehicular and pedestrian areas - Part 3: Gully tops and manhole tops made of steel or aluminium alloys
DIN EN 124-4 2015-09	Gully tops and manhole tops for vehicular and pedestrian areas - Part 4: Gully tops and manhole tops made of steel reinforced concrete

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DIN EN 124-5 2015-09	Gully tops and manhole tops for vehicular and pedestrian areas - Part 5: Gully tops and manhole tops made of composite materials
DIN EN 124-6 2015-09	Gully tops and manhole tops for vehicular and pedestrian areas - Part 6: Gully tops and manhole tops made of polypropylene (PP), polyethylene (PE) or unplasticized poly(vinyl chloride) (PVC-U)
DIN EN 1433 2005-09	Drainage channels for vehicular and pedestrian areas - Classification, design and testing requirements, marking and evaluation of conformity
DIN EN 13101 2003-04	Steps for underground man entry chambers - Requirements, marking, testing and evaluation of conformity
DIN EN 14396 2004-04	Fixed ladders for manholes

10. Flexible sheets for waterproofing, coating material/-systems (Le)

10.1 Plastics, Bitumen sheets, fluid mineral substances to be applied or plastic based materials

DIN EN 1848-1 1999-12	Flexible sheets for waterproofing - Determination of length, width and straightness - Part 1: Bitumen sheets for roof waterproofing
DIN EN 1848-2 2001-09	Flexible sheets for waterproofing - Determination of length, width, straightness and flatness - Part 2: Plastic and rubber sheets for roof waterproofing
DIN EN 1849-1 2000-01	Flexible sheets for waterproofing - Determination of thickness and mass per unit area - Part 1: Bitumen sheets for roof waterproofing
DIN EN 1849-2 2010-04	Flexible sheets for waterproofing - Determination of thickness and mass per unit area - Part 2: Plastic and rubber sheets
DIN EN 1850-1 1999-12	Flexible sheets for roofing - Determination of visible defects - Part 1: Bitumen sheets for roof waterproofing

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DIN EN 1850-2 2001-09	Flexible sheets for waterproofing - Determination of visible defects - Part 2: Plastic and rubber sheets for roof waterproofing
DIN EN 12691 2018-05	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of resistance to impact
DIN EN ISO 489 1999-08	Plastics - Determination of the refractive index

10.2 Mineral materials (mineral or plastic-based)

DIN EN 1062-7 2004-08	Paints and varnishes - Coating materials and coating systems for exterior masonry and concrete - Part 7: Determination of crack bridging properties – Method A
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10.3 Plastics, coatings, injection materials

DIN 19631 2016-07	Leaching of construction products - Percolation method for the examination of the leaching behaviour of materials injected into the soil
DIN EN 1542 1999-07	Products and systems for the protection and repair of concrete structures - Test methods - Measurement of bond strength by pull-off
DIN EN 1767 1999-09	Products and systems for the protection and repair of concrete structures - Test methods - Infrared analysis
DIN CEN/TS 16637-1; DIN SPEC 18046-1 2018-12	Construction products - Assessment of release of dangerous substances - Part 1: Guidance for the determination of leaching tests and additional testing steps
DIN CEN/TS 16637-2; DIN SPEC 18046-2 2014-11	Construction products - Assessment of release of dangerous substances - Part 2: Horizontal dynamic surface leaching test

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10.4 Watertightness*

The testing areas for flexible accreditation are characterised by the measured values in the table below.

Type of test	Measurand/ test parameter	Measurement and test range	Uncertainty of measurement	Testing standard/ characteristic method*
Water-tightness	Watertightness yes/no	1 to 500 kPa	1,01	DIN EN 1928
				DIN EN 13111
				DIN EN 14891 Anhang A.7
				DIN EN 15820
				PG – FBB Teil 1 (10.2012)
				PG – FBB (E) Teil 2 (02.2016)
				PG – ÜBB (02.2016)
				PG – MDS (05.2014)
				PG – AIV-F (05.2014)
				PG – AIV-B (05.2014)
PG – AIV-P (08.2012)				
PG – FLK (06.2010)				

Characteristic testing method *

DIN EN 1928 2000-07	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of watertightness
DIN EN 13111 2010-11	Flexible sheets for waterproofing - Underlays for discontinuous roofing and walls - Determination of resistance to water penetration
DIN EN 14891 2017-05	Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives - Requirements, test methods, evaluation of conformity, classification and designation - Annex A.7: Water impermeability

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DIN EN 15820 2011-06	Polymer modified bituminous thick coatings for waterproofing - Determination of watertightness
PG-FBB Teil 1 2012-10	Seals for construction joints and dummy joint cross-sections - here: Watertightness of construction joint seals Watertightness of dummy joints Swelling pressure of swellable joint seals Behaviour of joint seals with storage of liquids
PG-FBB (E) Teil 2 2016-02	Principles of testing for the issuing of national technical approval certification for joint seals in construction elements of concrete with high water penetration resistance in the area in contact with the soil - Part 2: Seals for expansion joints
PG-ÜBB 2016-02	Building seals in the transition to building elements of concrete with high water penetration resistance – test methods: Watertightness of adhesive transitional seals, welded joints and clamped structures – test methods: Stability of adhesive transitional seals, test methods: Bonding on concrete
PG – MDS 2014-01	Principles of testing for the issuing of national technical approval certification for joint seals with mineral-based sealing masses (PG-MDS)
PG-AIV-B 2014-05	Principles of testing for the issuing of national technical approval certification for seals in connection with ceramic tiling and floor paving – Part 2: Sheet-type sealing materials (PG-AIV-B)
PG-AIV-F 2014-05	Principles of testing for the issuing of national technical approval certification for seals in connection with ceramic tiling and floor paving - Part 1: fluid based sealants PG-AIV-F
PG–AIV-P 2012-08	Principles of testing for the issuing of national technical approval certification for seals in connection with ceramic tiling and floor paving – Part 3: plate shaped sealants PG-AIV-P
PG – FLK 2010-06	Principle of testing for granting national technical approval certificates for construction structures sealants with fluid plastic substances

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11. Noise protection wall and related fixtures for influencing airborne noise propagation and noise absorbing claddings (Le)

DIN EN 1793-1 2013-04	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 1: Intrinsic characteristics of sound absorption
DIN EN 1793-2 2013-04	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 2: Intrinsic characteristics of airborne sound insulation under diffuse sound field conditions
DIN EN 1793-4 2015-05	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 4: Intrinsic characteristics - In situ values of sound diffraction
DIN EN 1736-5 2016-10	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 5: Intrinsic characteristics - In situ values of sound reflection under direct sound field conditions
DIN EN 1793-6 2013-04	Road traffic noise reducing devices - Test method for determining the acoustic performance - Part 6: Intrinsic characteristics - In-situ values of airborne sound insulation under direct sound field conditions
DIN EN 1794-1 2011-04	Road traffic noise reducing devices - Non-acoustic performance - Part 1: Mechanical performance and stability requirements Annexes A to E
DIN EN 1794-2 2011-04	Road traffic noise reducing devices - Non-acoustic performance - Part 2: General safety and environmental requirements, Annexes A to F
DIN EN 1794-3 2016-12	Road traffic noise reducing devices - Non-acoustic performance - Part 3: Reaction to fire - Burning behaviour of noise reducing devices and classification
DIN EN 14389-1 2015-07	Road traffic noise reducing devices - Procedures for assessing long term performance - Part 1: Acoustical characteristics
DIN EN 14389-2 2004-11	Road traffic noise reducing devices - Procedures for assessing long term performance - Part 2: Non-acoustic characteristics

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DIN EN 16272-1 2013-01	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 1: Intrinsic characteristics - Sound absorption in the laboratory under diffuse sound field conditions
DIN EN 16272-2 2013-01	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 2: Intrinsic characteristics - Airborne sound insulation in the laboratory under diffuse sound field conditions
DIN EN 16272-4 2016-12	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 4: Intrinsic characteristics - In situ values of sound diffraction under direct sound field conditions
DIN EN 16272-6 2014-12	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 6: Intrinsic characteristics - In situ values of airborne sound insulation under direct sound field conditions
DIN CEN/TS 16272-5 2014-09 DIN SPEC 1637 2014-09	Railway applications - Track - Noise barriers and related devices acting on airborne sound propagation - Test method for determining the acoustic performance - Part 5: Intrinsic characteristics - In situ values of sound reflection under direct sound field conditions
Guideline of the German Railway 804.5501 Deutsche Bahn AG 01.01.2013	Noise protection walls – Acoustical tests / Testing of airborne noise attenuation in noise protection walls

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12. Space enclosing components and installations (Le)

DIN 18032-3 1997-04	Sport halls - Halls for gymnastics, games and multi-purpose use - Part 3: Testing of safety against ball throwing
DIN EN 1191 2013-04	Windows and doors - Resistance to repeated opening and closing - Test method here: for self-closing revolving doors according EN 16034
DIN EN 1628 2011-09	Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Test method for the determination of resistance under static loading
DIN EN 1629 2011-09	Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Test method for the determination of resistance under dynamic loading
DIN EN 1630 2011-09	Pedestrian doorsets, windows, curtain walling, grilles and shutters - Burglar resistance - Test method for the determination of resistance to manual burglary attempts
DIN EN 60598-1 2015-10 VDE 0711-1 2015-10	Luminaires - Part 1: General requirements and tests Clause 8: Protection against electric shock clause 9: Resistance to dust, solid foreign bodies and water
DIN EN ISO 13964 2014-08	Suspended ceilings - Requirements and test methods without clause 5.5

13. Hygrothermal behaviour in the wall test rig * (Le)

The testing areas for flexible accreditation are characterised by the measured values in the table below.

Type of test	Measurand/ test parameter	Measurement and test range	Uncertainty of measurement	Testing standard/ characteristic method*
Climate change test (hygrothermal behaviour in the wall test rig)	Heat-rain cycles Heat-cold cycles	-20°C to +70°C 10-95% rel.LF 1 l/m ²	± 5K ± 10 %	DIN EN 12467
				ETAG 004 clause 5.1.3.2
				ETAG 034-1 clause 5.4.6

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Characteristic testing methods *

DIN EN 12467 2018-07	Fibre-cement flat sheets - Product specification and test methods clause 7.4.2 – Heat-rain
ETAG 004 2011-08	Guideline for European Technical Approval of external thermal insulation composite systems (ETICS) with rendering clause 5.1.3.2 - Hygrothermal behaviour of ETICS
ETAG 034-1 2012-04	Guideline for European Technical Approval of kits for external wall claddings – Part 1: Ventilated cladding kits comprising cladding components and associated fixings clause 5.4.6 Hygrothermal behaviour of VHF

14. Sound insulation of construction products, constructional elements and builds (Le)

14.1 Determination of airborne and impact sound insulation and reduction in constructional elements

DIN EN ISO 10140-2 2010-12	Acoustics - Laboratory measurement of sound insulation of building elements - Part 2: Measurement of airborne sound insulation
DIN EN ISO 10140-4 2010-12	Acoustics - Laboratory measurement of sound insulation of building elements - Part 4: Measurement procedures and requirements

14.2 Determination of dynamic stiffness

DIN EN 29052-1 1992-08	Acoustics; determination of dynamic stiffness; part 1: materials used under floating floors in dwellings
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14.3 Determination of flow resistance

DIN EN 29053 1993-05	Acoustics; materials for acoustical applications; determination of airflow resistance
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15. Emissions and immissions of noise and vibrations – module Immission control (Le)

15.1 Determination of noise (group V)

Specifications by module Immission control and DIN 45688:2014

Group V: Determination of noise			
Standard / Directive / Technical Rule		QM- document	Remark Location
Title	Description		
Technical Instruction - Noise 1968-07	General administrative specification for installations subject to approval in accordance with Section 16 of the German trade regulation act: Technical instruction concerning noise protection (TA Lärm) in conjunction with: VDI 2058 Sheet 1:1985-09 "Assessment of working noise in the vicinity", including the standards and directives named therein	QMH IV 4.2.1-10	Le
Technical Instruction - Noise 1998-08	Sixth general administrative specification for the German Federal Immission Control Act: Technical instruction concerning noise protection (TA Lärm), including the standards and directives named therein	QMH IV 4.2.1-10	Le
16. BImSchV vom 12.06.1990 (BGBl. I S. 1036)	Traffic noise control act	QMH IV 4.2.1-10	Le
18. BImSchV vom 18.07.1991 (BGBl. I S. 1790)	Sports facility noise control act	QMH IV 4.2.1-10	Le
AVwV Construction Noise 1970-08	General administrative specification for protection against construction noise – Noise immissions (AVwV Baulärm)	QMH IV 4.2.1-10	Le
Acoustik 04 1990	Guidelines concerning acoustical investigations for the planning of railway marshalling yards and trans-shipment stations	QMH IV 4.2.1-10	Le
LAI Leisure Activity Noise Guidelines 1995	Considerations for the assessment of noise resulting from leisure activities (LAI-Freizeitlärm-RL)	QMH IV 4.2.1-10	Le

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The methods described correspond to the requirements of the
 “special proof of competence in the area of immission control”
 (module Immission control):2011-09 and DIN 45688:2014-07
 Competence in the testing and technical task areas of Group V Determination of Noise
 subject to immission control legislation is hereby confirmed.

The persons named below are entitled to sign for all test types and methods described:
 Mr. Dipl.-Ing. Volker Fenske; Mr. Dipl.-Phys. Dietmar Sprinz

15.2 Determination of vibrations (Group VI)

Specifications by module Immission control and DIN 45688:2014

Group VI: Determination of vibrations			
Standard / Directive / Technical Rule		QM- document	Remark Location
Title	Description		
LAI- Vibration Guidelines 2000	Considerations for the measurement, evaluation and reduction of vibration immissions (LAI-Erschütterungs-LL)	QMH II Laboratory vol. 2.1	Le
DIN 4150-2 1999-06	Vibrations in buildings - Part 2: Effects on persons in buildings	QMH II Laboratory vol. 2.1 PrüfV-2.1.-2	Le
DIN 4150-3 1999-02	Vibration in buildings - Part 3: Effects on structures	QMH II Laboratory vol. 2.1 PrüfV-2.1.-2	Le

The methods described correspond to the requirements of the
 “special proof of competence in the area of immission control”
 (module Immission control):2011-09 and DIN 45688:2014-07
 Competence in the testing and technical task areas of Group VI Determination of vibrations
 subject to immission control legislation is hereby confirmed.

The persons named below are entitled to sign for all test types and methods described:
 Head: Mr. Dipl.-Ing Holger Busch
 Deputies: Mrs. Prof. Dr.-Ing. Elke Reuschel, Mr. Dipl.-Ing. (FH) Immanuel Wojan

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16. Fire behaviour of building materials, building components, construction products and builds (La)

16.1 Fire behaviour of building components, builds and construction products - national

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; definitions, requirements and tests
DIN 4102-5 1977-05	Fire behaviour of building materials and building components; fire barriers, barriers in lift wells and glazings resistant against fire; definitions, requirements and tests
DIN 4102-9 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
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

16.2 Fire behaviour of building components, builds and construction products - European

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 V EN V 1363-3 1999-09	Fire resistance tests - Part 3: Verification of furnace performance

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DIN EN 1365-1 Fire resistance tests for loadbearing elements - Part 1: Walls
2013-08

DIN EN 16733 Reaction to fire tests for building products - Determination of a
2016-07 building product's propensity to undergo continuous
smouldering

17. 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) (Le)

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 14190:2014 Gypsum board products from reprocessing - Definitions, requirements and test methods
1996/579/EC Circulation fixtures	3	EN 14388:2005+AC:2008 Road traffic noise reducing devices - Specifications
1997/462/EG Wood-based panels	3	EN 13986:2004+A1:2015 Wood-based panels for use in construction - Characteristics, evaluation of conformity and marking
1997/464/EC 2004/663/EC Waste water engineering products outside buildings	3	EN 1433:2002+A1:2005 Drainage channels for vehicular and pedestrian areas - Classification, design and testing requirements, marking and evaluation of conformity

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Decision / resolution of the Commission	System ¹⁾	Technical specification
1998/436/EC Roof coverings, rooflights, roof windows and ancillary products	3	EN 14509:2013 Self-supporting double skin metal faced insulating panels - Factory made products – Specifications
		EN 16153:2013 +A1:2015 Light transmitting flat multiwall polycarbonate (PC) sheets for internal and external use in roofs, walls and ceilings - Requirements and test methods
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
		EN 13964:2014 Suspended ceilings - Requirements and test
		EN 14716:2004 Stretched ceilings - Requirements and tests methods
1999/90/EC Membranes	3	EN 13859-1:2010 Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 1: Underlays for discontinuous roofing
		EN 13859-2:2010 Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 2: Underlays for walls
		EN 13970:2004+A1:2006 Flexible sheets for waterproofing - Bitumen water vapour control layers - Definitions and characteristics
		EN 13984:2013 Flexible sheets for waterproofing - Plastic and rubber vapour control layers - Definitions and characteristics
		EN 14891:2012+AC:2012 Liquid-applied water impermeable products for use beneath ceramic tiling bonded with adhesives - Requirements, test methods, evaluation of conformity, classification and designation
		EN 14909:2012 Flexible sheets for waterproofing - Plastic and rubber damp proof courses - Definitions and characteristics
		EN 14967:2006 Flexible sheets for waterproofing - Bitumen damp proof courses - Definitions and characteristics

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Decision / resolution of the Commission	System ¹⁾	Technical specification
1999/90/EC Membranes	3	EN 15814:2011+A2:2014 Polymer modified bituminous thick coatings for waterproofing - Definitions and requirements
1999/91/EC Thermal insulating 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+A2:2016 Thermal insulation products for buildings - Factory made rigid polyurethane foam (PU) products - Specification
		EN 13166:2012+A2:2016 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
		EAD 040005-00-1201 Factory-made thermal and/or acoustic insulation products made of vegetable or animal fibres

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Decision / resolution of the Commission	System ¹⁾	Technical specification
1999/91/EC Thermal insulating products	3	EAD 040012-00-1201 Thermal insulation board made of mineral material
1999/454/EC Fire stopping, fire sealing and fire protection products	3	EAD 350142-00-1106 Fire protective board, slab and mat products and kits
2000/273/EC Seven products for European Technical Approvals	3	EAD 040048-01-0502 Rubber fibre mat to be used for impact sound insulation
		EAD 040049-00-0502 Polyurethane (PU)-exhibition mat for impact sound insulation
1999/472/EC Pipes, tanks and ancillaries not in contact with water intended for human consumption	3	EAD 280016-00-0602 – Entwurf 2017-06-15²⁾ Installation Systems Supporting Technical Equipment for Buliding Services

¹⁾ System of assessment and verification of consistency of performance

²⁾ Harmonization in preparation

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 DAkks German Accreditation Body, the testing laboratory body is permitted to use new revisions of harmonised technical standards.

18. Tests of reaction to fire, of resistance to fire, of external fire performance and of noise absorption, for which the reference to a relevant harmonised technical specification is not required (point 3. Annex V, (EU) Nr. 305/2011) - (Le,La)

18.1 Reaction to fire - (La)

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

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EN ISO 1716 2018	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)
EN ISO 11925-2 2010	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
	in conjunction with:
	<i>EN 13501-1 2007 +A1 2009</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 2014</i>
	<i>Fire classification of construction products and building elements - Part 6: Classification using data from reaction to fire tests on electric cable</i>

18.2 Resistance to fire - (La)

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 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 1366-3 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

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EN 1366-6 2004	Fire resistance tests for service installations - Part 6: Raised access and hollow core floors
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 1634-3 2004	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 13381-2 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 13381-8 2013	Test methods for determining the contribution to the fire resistance of structural members - Part 8: Applied reactive protection to steel members
EN 14135 2004	Coverings - Determination of fire protection ability

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

*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

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*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*

18.3 External fire performance – (La)

CEN/TS 1187
2012

Test methods for external fire exposure to roofs

in conjunction with

*EN 13501-5
2016*

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

18.4 Noise absorption – (Le)

EN ISO 354
2003

Acoustics - Measurement of sound absorption in a reverberation room

EN ISO 10140-1
2016

Acoustics - Laboratory measurement of sound insulation of building elements - Part 1: Application rules for specific products

EN ISO 10140-3
2010

Acoustics - Laboratory measurement of sound insulation of building elements - Part 3: Measurement of impact sound insulation

The requirements for a testing laboratory in accordance with Article 43 of the Construction Product are fulfilled.

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Abbreviations used:

BAW	Bundesanstalt für Wasserbau (German Federal Waterways Engineering and Research Institute)
DAfStb	Deutscher Ausschuss für Stahlbeton (German Committee for Reinforced Concrete)
DBS	Standard of Deutsche Bahn AG
DBV	Deutscher Beton- und Bautechnik-Verein (German Concrete and Construction Technology Association)
EAD	European Assessment Document
ETAG	European Technical Approval Guideline
FBS	Fachvereinigung Betonrohre und Stahlbetonrohre e.V. (German Professional Association for Concrete Piping and Reinforced Steel Piping)
ONR	Normative documents of the Austrian Standards Institute
ÖVBB	Österreichische Vereinigung für Beton und Bautechnik (Austrian Association for Concrete and Engineering Construction)
PG-FBB	DIBt - Prüfgrundsätze - Fugenabdichtungen in Bauteilen aus Beton (FBB) mit hohem Wassereindringwiderstand gegen drückendes und nicht drückendes Wasser und gegen Bodenfeuchtigkeit (Testing principles – Construction joint seals in constructional elements of concrete with high water penetration resistance against water under pressure and in-situ water and against soil moisture)
PG-ÜBB	DIBt - Prüfgrundsätze für Bauwerksabdichtungen im Übergang auf Bauteile aus Beton (ÜBB) mit hohem Wassereindringwiderstand (Testing principles for seals in constructions in the transition from constructional elements to concrete with high water penetration resistance)
Prüf-XX-XX_VA	Internal test procedure

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