

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 1 – Structures and Construction Materials

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

mechanical, physical, hygric, thermic and chemico-physical tests on mineral construction materials such as aggregates, cements, concrete, steel fibre concrete, concrete products, bricks, mortars, plasters, screed, on load bearing walls and non-load bearing light partitions, ceiling sheathings, pipe anchors, fixtures and manholes for road surfaces, construction steel and concrete steel, stainless steel, prestressed steel, concrete steel connections, fibres for concrete, prestressed components, on concrete elements and structures with respect to durability, on concrete steel components and structures in relation to construction structures inspections, on restoration materials, construction structures sealing, on organic and inorganic construction products, on heat insulators and fibre cement products;

Testing of construction products 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)

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 25 pages.

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

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-11267-01-01 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 1 – Structures and Construction Materials

Tests in the fields:

mechanical, physical, hygric, thermic and chemico-physical tests on mineral construction materials such as aggregates, cements, concrete, steel fibre concrete, concrete products, bricks, mortars, plasters, screed, on load bearing walls and non-load bearing light partitions, ceiling sheathings, pipe anchors, fixtures and manholes for road surfaces, construction steel and concrete steel, stainless steel, prestressed steel, concrete steel connections, fibres for concrete, prestressed components, on concrete elements and structures with respect to durability, on concrete steel components and structures in relation to construction structures inspections, on restoration materials, construction structures sealing, on organic and inorganic construction products, on heat insulators and fibre cement products

Testing of construction products 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)

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.

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.

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1 Aggregates for mortar and concrete

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 933-1 2012-03	Tests for geometrical properties of aggregates - Part 1: Determination of particle size distribution - Sieving method
DIN EN 933-2 2020-09	Test for geometrical properties of aggregates - Part 2: Determination of particle size distribution; test sieves, nominal size of apertures
DIN EN 933-4 2015-01	Tests for geometrical properties of aggregates - Part 4: Determination of particle shape - Shape index
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 933-7 1998-05	Tests for geometrical properties of aggregates - Part 7: Determination of shell content; percentage of shells in coarse aggregates
DIN EN 1097-3 1998-06	Tests for mechanical and physical properties of aggregates - Part 3: Determination of loose bulk density and voids (except: Part A and Part C2)
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 (Annex G to max. 4 mm)
DIN EN 1097-7 2008-06 Corrigendum 1 2008-09	Tests for mechanical and physical properties of aggregates - Part 7: Determination of the particle density of filler - Pycnometer method
DIN EN 1367-1 2007-06	Tests for thermal and weathering properties of aggregates - Part 1: Determination of resistance to freezing and thawing

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DIN EN 12371 2010-07	Natural stone test methods - Determination of frost resistance
DIN EN 13755 2008-08	Natural stone test methods - Determination of water absorption at atmospheric pressure
DIN 52099 2013-10	Testing of aggregates - Testing with respect to purity
DIN 52102 2013-10	Test methods for aggregates - Determination of dry bulk density by the cylinder method and calculation of the ratio of density
DIN 52106 2013-12	Testing of aggregates - Test methods for the assessment of the weathering resistance

2 Concrete

2.1 Normal concrete

DIN EN 12350-1 2019-09	Testing fresh concrete - Part 1: Sampling and common apparatus
DIN EN 12350-2 2019-09	Testing fresh concrete - Part 2: Slump-test
DIN EN 12350-4 2019-09	Testing fresh concrete - Part 4: Degree of compactability
DIN EN 12350-5 2019-09	Testing fresh concrete - Part 5: Flow table test
DIN EN 12350-6 2019-09	Testing fresh concrete - Part 6: Density
DIN EN 12350-7 2019-09	Testing fresh concrete - Part 7: Air content - Pressure methods
DIN EN 12350-8 2019-09	Testing fresh concrete - Part 8: Self-compacting concrete - Slump-flow test
DIN EN 12350-9 2010-12	Testing fresh concrete - Part 9: Self-compacting concrete - V-funnel test

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DIN EN 12350-10 2010-12	Testing fresh concrete - Part 10: Self-compacting concrete - L box test
DIN EN 12350-11 2010-12	Testing fresh concrete - Part 11: Self-compacting concrete - Sieve segregation test
DIN EN 12350-12 2010-12	Testing fresh concrete - Part 12: Self-compacting concrete - J-ring test
DIN EN 12390-1 2012-12	Testing hardened concrete - Part 1: Shape, dimensions and other requirements for specimens and moulds
DIN EN 12390-2 2019-10	Testing hardened concrete - Part 2: Making and curing specimens for strength tests
DIN EN 12390-3 2019-10	Testing hardened concrete - Part 3: Compressive strength of test specimens
DIN EN 12390-5 2019-10	Testing hardened concrete - Part 5: Flexural strength of test specimens
DIN EN 12390-6 2010-09	Testing hardened concrete - Part 6: Tensile splitting strength of test specimens
DIN EN 12390-7 2021-01	Testing hardened concrete - Part 7: Density of hardened concrete
DIN EN 12390-8 2019-10	Testing hardened concrete - Part 8: Depth of penetration of water under pressure
DIN CEN/TS 12390-9 2017-05	Testing hardened concrete - Part 9: Freeze-thaw resistance - Scaling (<i>pre-standard</i>)
DIN EN 12390-13 2014-06	Testing hardened concrete - Part 13: Determination of secant modulus of elasticity in compression
CEN/TR 15177 2006-06	DIN-Technical report, Testing the freeze-thaw resistance of concrete - Internal structural damage
RILEM-Guideline CPC-7 1975	Direct tension of concrete specimens (axial tensile strength)

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2.2 Sprayed concrete

DIN EN 14488-1 2005-11	Testing sprayed concrete - Part 1: Sampling fresh and hardened concrete
DIN EN 14488-3 2006-09	Testing sprayed concrete - Part 3: Flexural strengths (first peak, ultimate and residual) of fibre reinforced beam specimen
DIN EN 14488-4 2008-08	Testing sprayed concrete - Part 4: Bond strength of cores by direct tension
DIN EN 14488-6 2006-09	Testing sprayed concrete - Part 6: Thickness of concrete on a substrate
DIN EN 14488-7 2006-08	Testing sprayed concrete - Part 7: Fibre content of fibre reinforced concrete

2.3 Fibre concrete

DIN EN 14651 2007-12	Test method for metallic fibre concrete - Measuring the flexural tensile strength (limit or proportionality (LOP), residual)
DIN EN 14721 2007-12	Test method for metallic fibre concrete - Measuring the fibre content in fresh and hardened concrete
DIN EN 14845-1 2007-09	Test methods for fibres in concrete - Part 1: Reference concretes
DIN EN 14845-2 2006-11	Test methods for fibres in concrete - Part 2: Effect on concrete
DIN 1048-5 1991-06	Testing concrete; testing of hardened concrete (specimens prepared in mould) (<i>withdrawn standard</i>)
RILEM TC 162-TDF 2000-03	Test and Design Methodes for Steel Fibre Reinforced Concrete
ÖBV Richtlinie 2015-04	Erhöhter baulicher Brandschutz für unterirdische Verkehrsbauwerke aus Beton (hier: Anhang A 4 – Ermittlung des PP-Fasergehalts am Frischbeton Anhang A.5 – Ermittlung des PP-Fasergehalts am Festbeton)

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3 Durability of concrete components and structures

DIN EN 14630 2007-01	Products and systems for the protection and repair of concrete structures - Test methods - Determination of carbonation depth in hardened concrete by the phenolphthalein method
DIN 52108 2010-05	Testing of inorganic non-metallic materials - Wear test using the grinding wheel according to Böhme - Grinding wheel method
FB1-PA003 2016-02	Location of concrete steel reinforcement using magnetic inductive method
FB1-PA010 2016-02	Test of frost thaw agent resistance of concrete using CDF-Test

4 Tests of concrete components and structures in relation to Inspections

DIN EN 12504-1 2021-01	Testing concrete in structures - Part 1: Cored specimens - Taking, examining and testing in compression
DIN EN 12504-2 2012-12	Testing concrete in structures - Part 2: Non-destructive testing - Determination of rebound number

5 Grouting mortar

DIN EN 445 2008-01	Grout for prestressing tendons - Test methods
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**6 Artificially produced mineral construction products– concrete products
(aerated concrete, light concrete, concrete blocks, ancillary components for masonry)**

DIN EN 846-2 2000-08	Methods of tests for ancillary components for masonry - Part 2: Determination of bond strength of prefabricated bed joint reinforcement in mortar joints
DIN EN 846-3 2000-08	Methods of tests for ancillary components for masonry - Part 3: Determination of shear load capacity of welds in prefabricated bed joint reinforcement
DIN EN 846-4 2005-01	Methods of test for ancillary components for masonry - Part 4: Determination of load capacity and load-deflection characteristics of straps

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DIN EN 846-5 2012-11	Methods of test for ancillary components for masonry - Part 5: Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (couplet test)
DIN EN 846-6 2012-11	Methods of test for ancillary components for masonry - Part 6: Determination of tensile and compressive load capacity and load displacement characteristics of wall ties (single end test)
DIN EN 846-7 2012-11	Methods of test for ancillary components for masonry - Part 7: Determination of shear load capacity and load displacement characteristics of shear ties and slip ties (couplet test for mortar joint connections)
DIN EN 846-8 2006-10	Methods of test for ancillary components for masonry - Part 8: Determination of load capacity and load-deflection characteristics of joist hangers
DIN EN 846-9 2016-08	Methods of test for ancillary components for masonry - Part 9: Determination of flexural resistance and shear resistance of lintels
DIN EN 846-10 2000-08	Methods of test for ancillary components for masonry - Part 10: Determination of load capacity and load deflection characteristics of brackets
DIN EN 846-11 2000-08	Methods of test for ancillary components for masonry - Part 11: Determination of dimensions and bow of lintel
DIN EN 846-14 2012-11	Methods of test for ancillary components for masonry - Part 14: Determination of the initial shear strength between the prefabricated part of a composite lintel and the masonry above it
DIN EN 1338 2003-08 Corrigendum 1 2006-11	Concrete paving blocks - Requirements and test methods (without annex G and I)
DIN EN 1339 2003-08 Corrigendum 1 2006-11	Concrete paving flags - Requirements and test methods (without annex G and I)
DIN EN 1340 2003-08 Corrigendum 1 2006-11	Concrete kerb units; Requirements and test methods (without annex G and I)

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DIN EN 1343 2013-03 Amendment A20 2014-07	Kerbs of natural stone for external paving - Requirements and test methods
DIN EN 1353 1997-02	Determination of moisture content of autoclaved aerated concrete
DIN EN 1433 2005-09	Drainage channels for vehicular and pedestrian areas - Classification, design and testing requirements, marking and evaluation of conformity here: clause 9
DIN 4281 1998-08	Concrete for prefabricated sewage units - Manufacture, requirements, testing and quality control

7 Metallic materials

7.1 Mechanical tests

DIN ISO 7801 2008-10	Metallic materials; Wire; Reverse bend test
DIN ISO 7802 2014-11	Metallic materials - Wire - Wrapping test
DIN EN ISO 6892-1 2020-06	Metallic materials - Tensile testing - Part 1: Method of test at room temperature, method B
DIN EN 10002-1 2001-12	Metallic materials - Tensile testing - Part 1: Method of testing (at ambient temperature) (<i>withdrawn standard</i>)
ASTM A 370 2019	Standard test methods and definitions for mechanical testing of steel products (<i>Testing of mechanicals properties of steel products</i>)

7.2 Reinforcing steel

DIN EN ISO 15630-1 2019-05	Steel for the reinforcement and prestressing of concrete - Test methods - Part 1: Reinforcing bars, rods and wire here: without clause 9
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DIN EN ISO 15630-2 2019-05	Steel for the reinforcement and prestressing of concrete - Test methods - Part 2: Welded fabric and lattice girder (without clause 9)
EAD 160055-00-0301	Lattice girders for the increase of punching resistance in flat slabs and column (here: Annex B6, B7 and C3)

7.3 Reinforced steel couplings

EAD 200014-01-0103	Pile Joints and Rock shoes for concrete piles (here: clause 2.1 und 2.2.1)
DIBt-Richtlinie 2007-05	Centre of Competence for Constrution (DIBt) Guideline for the national technical approvals and surveillances of mechanical concrete steel connections (here: clause 2.0, chapter 4)
DIBt-CUAP 2005-05	Couplings for standardised reinforcing bars ETA request No 03.01/02; second draft: May 2005, Kap. 4

7.4 Prestressed steel

DIN EN ISO 15630-3 2020-02	Steel for the reinforcement and prestressing of concrete - Test methods - Part 3: Prestressing steel (without clause 13)
BS 5896 2012-05	High tensile steel wire and strand for the prestressing of concrete. Specification
NEN 3868 2001-12	Voorspanstaal (Prestressing steel)
NF A 05-302 2014-12	Armatures de précontrainte - Essai de corrosion sous contrainte á l'eau distillée Spannbewehrung (<i>reinforcements - corrosion test using distilled water</i>)
NF A 35-045-1 2018-11	Produits en acier - Armatures de précontrainte - Partie 1: Prescriptions generales (<i>steel products reinforcements - Part 1: general requirements</i>) Annex A, B and C

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ASTM A1061/ A1061M 2016	Standard Test Methods for Testing Multi-Wire Steel Prestressing Strand
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7.5 Steel fibres

EN 10218-1 2012-03	Steel wire and wire products - General - Part 1: Test methods
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8. Cables

ETAG 013 2002-06	Guideline for European Technical Approval of post tensioning kits for prestressing of structures (here: Annex B)
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EAD 160004-00-0301	Post-tensioning systems for prestressing of structures (here: Annex C)
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EAD 160027-00-0301	Special filling products for post-tensioning kits Annex A (Sedimentation Test) (here: Clause 2.2.27 and 2.2.28)
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TL Seile Verkehrsblatt Nr. B 5229 edition 1994	Technical supplier specification for fully locked bridge rope, Ministry of Transport, Roadworks Dept., Transport Gazette Doc No B 5229 (according clause 3.1.5 + 5.4.1.3 and annex 2 + 9)
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TL/TP-ING part 4 section 4 TL/TP VVS 2017-02	Technical delivery conditions and technical test regulations for fully locked coil ropes (here: Chapter 5.4 and Annex C)
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FIB CEB-FIB 2019-03	Acceptance of stay cable systems using prestressing steels here: clause 6
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PTI DC.45.1-18 2018	PTI Recommendations for Stay Cable Design, Testing and Installation
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9 Wall and ceiling finishes and partitions

DIN EN 520 2009-12	Gypsum plasterboards - Definitions, requirements and test methods (here: chapter 5)
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DIN EN 13964 2014-08	Suspended ceilings - Requirements and test methods (here: chapter 5.2, Annexes F, G, H)
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DIN EN 14179-1 2016-12	Glass in building - Heat soaked thermally toughened soda lime silicate safety glass - Part 1: Definition and description (here: Annex A)
DIN EN 14509 2013-12	Self-supporting double skin metal faced insulating panels - Factory made products – Specifications (here: Annexes A, B and D)
DIN EN 15283-1 2009-12	Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 1: Gypsum boards with mat reinforcement (here: chapter 5)
DIN EN 15283-2 2009-12	Gypsum boards with fibrous reinforcement - Definitions, requirements and test methods - Part 2: Gypsum fibre boards (here: chapter 5)
ETAG 003 2013-07	Guideline for European Technical Approval of internal partition kits for use as non-loadbearing walls
EAD 210005-00-0505	Internal partition kits for use as non-loadbearing walls (here: Clause 2.2.4 - 2.2.6, Clause 2.2.8, Clause 2.2.10 – 2.2.12, Clause 2.2.15, Annexes A, B, C and E)
EAD 040083-00-0404	External thermal insulation composite systems (ETICS) with renderings (Clause 2.2.5 - 2.2.13, Clause 2.2.16, Clause 2.2.21 (without 2.2.21.3), Clause 2.2.23, Annexes G and F)

10 Piping anchorages

RAL-GZ 655 2008-04	Piping anchorages – quality control (according clause B 3.2.4, C 3.4.4, D 3.3.3, E 3.3.4)
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11 Construction waterproofing

DIN ISO 4593 2019-06	Plastics - Film and sheeting - Determination of thickness by mechanical scanning
DIN ISO 23529 2012-10	Rubber - General procedures for preparing and conditioning test pieces for physical test methods
DIN EN ISO 139 2011-10	Textiles - Standard atmospheres for conditioning and testing
DIN EN ISO 178 2019-08	Plastics - Determination of flexural properties
DIN EN ISO 527-1 2019-12	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 anisotropic fibre-reinforced plastic composites
DIN EN ISO 2062 2010-04	Textiles - Yarns from packages - Determination of single-end breaking force and elongation at break using constant rate of extension (CRE) tester
DIN EN ISO 4624 2016-08	Paints and varnishes - Pull-off test for adhesion
DIN EN ISO 4892-3 2016-10	Plastics - Methods of exposure to laboratory light sources - Part 3: Fluorescent UV lamps
DIN EN ISO 7390 2004-04	Building construction - Jointing products - Determination of resistance to flow of sealants
DIN EN ISO 8339 2005-09	Building construction - Sealants - Determination of tensile properties (Extension to break)
DIN EN ISO 8340 2005-09	Building construction - Sealants - Determination of tensile properties at maintained extension

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DIN EN ISO 10563 2017-09	Buildings and civil engineering works - Sealants - Determination of change in mass and volume
DIN EN ISO 10590 2005-10	Building construction - Sealants - Determination of tensile properties of sealants at maintained extension after immersion in water
DIN EN 495-5 2013-08	Flexible sheets for waterproofing - Determination of foldability at low temperature - Part 5: Plastic and rubber sheets for roof waterproofing
DIN EN 1107-1 1999-10	Flexible sheets for waterproofing - Determination of dimensional stability - Part 1: Bitumen sheets for roof waterproofing
DIN EN 1107-2 2001-04	Flexible sheets for waterproofing - Determination of dimensional stability - Part 2: Plastic and rubber sheets for roof waterproofing
DIN EN 1108 1999-10	Flexible sheets for waterproofing - Bitumen sheets for roof waterproofing - Determination of form stability under cyclical temperature changes
DIN EN 1109 2013-07	Flexible sheets for waterproofing - Bitumen sheets for roof waterproofing - Determination of flexibility at low temperature
DIN EN 1110 2011-03	Flexible sheets for waterproofing - Bitumen sheets for roof waterproofing - Determination of flow resistance at elevated temperature
DIN EN 1296 2001-03	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Method for artificial ageing by long term exposure to elevated temperature
DIN EN 1297 2004-12	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Method of artificial ageing by long term exposure to the combination of UV radiation, elevated temperature and water
DIN EN 1548 2007-11	Flexible sheets for waterproofing - Plastic and rubber sheets for roof waterproofing - Method for exposure to bitumen
DIN EN 1847 2010-04	Flexible sheets for waterproofing - Plastics and rubber sheets for roof waterproofing - Methods for exposure to liquid chemicals, including water
DIN EN 1848-1 1999-12	Flexible sheets for waterproofing - Determination of length, width and straightness - Part 1: Bitumen sheets for roof waterproofing

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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 2019-09	Flexible sheets for waterproofing - Determination of thickness and mass per unit area - Part 2: Plastic and rubber sheets for roof
DIN EN 1850-1 1999-12	Flexible sheets for roofing - Determination of visible defects - Part 1: Bitumen sheets for roof waterproofing
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 1928 2000-07	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of watertightness
DIN EN 12004-2 2017-05	Adhesives for tiles - Part 2: Test methods
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

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DIN EN 12691 2018-05	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of resistance to impact
DIN EN 12730 2015-06	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of resistance to static loading
DIN EN 13111 2010-11	Flexible sheets for waterproofing - Underlays for discontinuous roofing and walls - Determination of resistance to water penetration
DIN EN 13392 2001-12	Textiles - Monofilaments - Determination of linear density
DIN EN 13859-1 2014-07	Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 1: Underlays for discontinuous roofing
DIN EN 13859-2 2014-07	Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 2: Underlays for walls
DIN EN 14891 2017-05	Liquid applied water impermeable products for use beneath ceramic tiling bonded with adhesives - Requirements, test methods, assessment and verification of constancy of performance, classification and marking Annex 7 (A.7): Watertightness
DIN EN 29073-3 1992-08	Textiles; test method for nonwovens; part 3: determination of tensile strength and elongation
DIN 53377 2015-04	Testing of plastic films - Determination of dimensional stability
DIN 53504 2017-03	Testing of rubber - Determination of tensile strength at break, tensile stress at yield, elongation at break and stress values in a tensile test
EAD 030350-00-0402	Liquid applied roof waterproofing kits (without: bitumen-based materials)
Richtlinie DVS 2226-1 2000-09	Testing of fused joints on liners of polymer materials - Testing procedure, requirements
Richtlinie DVS 2226-2 1997-07	Testing of fused joints on liners of polymer materials - Lap shear test
Richtlinie DVS 2226-3 1997-07	Test of fusions on PE liners - Peeling test

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12 Restoration materials

DIN EN ISO 3219 1994-10	Plastics - Polymers/resins in the liquid state or as emulsions or dispersions - Determination of viscosity using a rotational viscometer with defined shear rate
DIN EN ISO 12572 2017-05	Hygrothermal performance of building materials and products - Determination of water vapour transmission properties – Cup method
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

13 Testing of inorganic construction materials

DIN EN 1744-1 2013-03	Tests for chemical properties of aggregates - Part 1: Chemical analysis (only clause 8, 10, 11, 12 and 17)
DIN EN 13279-2 2014-03	Gypsum binders and gypsum plasters - Part 2: Test methods

14 Testing of organic construction materials

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
DIN EN ISO 1183-1 2019-09	Plastics - Methods for determining the density of non-cellular plastics - Part 1: Immersion method, liquid pycnometer method and titration method
DIN EN ISO 2811-1 2016-08	Paints and varnishes - Determination of density - Part 1: Pycnometer method
DIN EN ISO 3251 2019-09	Paints, varnishes and plastics - Determination of non-volatile-matter content
DIN EN ISO 6427 2014-08	Plastics - Determination of matter extractable by organic solvents (conventional methods)

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DIN EN ISO 11357-3 2018-07	Plastics - Differential scanning calorimetry (DSC) - Part 3: Determination of temperature and enthalpy of melting and crystallization
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 - Part 1: General principles
DIN EN 1767 1999-09	Products and systems for the protection and repair of concrete structures - Test methods - Infrared analysis
DIN EN 12614 2005-01	Products and systems for the protection and repair of concrete structures - Test methods - Determination of glass transition temperatures of polymers

15 Testing of thermal insulating products

DIN EN ISO 16535 2019-10	Thermal insulating products for building applications - Determination of long-term water absorption by immersion
DIN EN ISO 29767 2019-11	Thermal insulating products for building applications - Determination of short-term water absorption by partial immersion
DIN EN 822 2013-05	Thermal insulating products for building applications - Determination of length and width
DIN EN 823 2013-05	Thermal insulating products for building applications - Determination of thickness
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 behavior
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)

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DIN EN 1609 2013-05	Thermal insulating products for building applications - Determination of short term water absorption by partial immersion <i>(withdrawn standard)</i>
DIN EN 12085 2013-06	Thermal insulating products for building applications - Determination of linear dimensions of test specimen
DIN EN 12087 2013-06	Thermal insulating products for building applications - Determination of long term water absorption by immersion <i>(withdrawn standard)</i>
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 - Dry and moist products with medium and low thermal resistance
DIN EN 12939 2001-02	Thermal performance of building materials and products - Determination of thermal resistance by means of guarded hot plate and heat flow meter methods - Thick products of high and medium thermal resistance

16 Mortar, plastering and floor

16.1 Masonry mortar and plastering mortars

DIN EN 196-1 2016-11	Methods of testing cement - Part 1: Determination of strength
DIN EN 196-3 2017-03	Methods of testing cement - Part 3: Determination of setting times and soundness
DIN EN 1015-1 2007-05	Methods of test for mortar for masonry - Part 1: Determination of particle size distribution (by sieve analysis)
DIN EN 1015-2 2007-05	Methods of test for mortar for masonry - Part 2: Bulk sampling of mortars and preparation of test mortars
DIN EN 1015-3 2007-05	Methods of test for mortar for masonry - Part 3: Determination of consistence of fresh mortar (by flow table)
DIN EN 1015-4 1998-12	Methods of test for mortar for masonry - Part 4: Determination of consistence of fresh mortar (by plunger penetration)

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DIN EN 1015-6 2007-05	Methods of test for mortar for masonry - Part 6: Determination of bulk density of fresh mortar
DIN EN 1015-7 1998-12	Methods of test for mortar for masonry - Part 7: Determination of air content of fresh mortar
DIN EN 1015-9 2007-05	Methods of test for mortar for masonry - Part 9: Determination of workable life and correction time of fresh mortar
DIN EN 1015-10 2007-05	Methods of test for mortar for masonry - Part 10: Determination of dry bulk density of hardened mortar
DIN EN 1015-11 2020-01	Methods of test for mortar for masonry - Part 11: Determination of flexural and compressive strength of hardened mortar
DIN EN 1015-12 2016-12	Methods of test for mortar for masonry - Part 12: Determination of adhesive strength of hardened rendering and plastering mortars on substrate
DIN EN 1015-18 2003-03	Methods of test for mortar for masonry - Part 18: Determination of water absorption coefficient due to capillary action of hardened mortar
DIN EN 1015-19 2005-01	Methods of test for mortar for masonry - Part 19: Determination of water vapour permeability of hardened rendering and plastering mortars
DIN EN 1052-1 1998-12	Methods of test for masonry - Part 1: Determination of compressive strength
DIN EN 1052-2 2018-12	Methods of test for masonry - Part 2: Determination of flexural strength
DIN EN 1052-3 2007-06	Methods of test for masonry - Part 3: Determination of initial shear strength
DIN EN 1052-4 2000-09	Methods of test for masonry - Part 4: Determination of shear strength including damp proof course
DIN 18555-4 2019-04	Testing of mortars containing mineral binders - Part 4: Determination of linear and transverse strain and of deformation characteristics of hardened masonry mortars by the static pressure test
DIN 18555-6 1987-11	Testing of mortars containing mineral binders; determination of bond strength of hardened mortar

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DIN 18555-9
2019-04 Testing of mortars containing mineral binders - Part 9: Determination of the compressive strength of hardened mortars in the bed joint

16.2 Floor screeds

DIN EN 13892-1
2003-02 Methods of test for screed materials - Part 1: Sampling, making and curing specimens for test

DIN EN 13892-2
2003-02 Methods of test for screed materials - Part 2: Determination of flexural and compressive strength

DIN EN 13892-3
2015-03 Methods of test for screed materials - Part 3: Determination of wear resistance - Böhme

DIN EN 13892-8
2003-02 Methods of test for screed materials - Part 8: Determination of bond strength

DIN 18560-1
2021-02 Floor screeds in building construction - Part 1: General requirements, testing and construction,
(here: clause 6.4)

DIN 18560-2
2009-09
Corrigendum 1
2012-05 Floor screeds in building construction - Part 2: Floor screeds and heating floor screeds on insulation layers,
(here: clause 6.2, 6.3.2, 6.3.3)

DIN 18560-3
2006-03 Floor screeds in building construction - Part 3: Bonded screed,
(here: clause 5, without 5.2.6 and 5.2.7)

DIN 18560-4
2012-06 Floor screeds - Part 4: Screeds laid on separated layer,
(here: clause 5, without 5.2.4 and 5.2.6)

DIN 18560-7
2004-04 Floor screeds - Part 7: Heavy-duty screeds (industrial screeds)
(here: clause 5, without 5.2.1)

DIN 52108
2010-05 Testing of inorganic non-metallic materials - Wear test using the grinding wheel according to Böhme - Grinding wheel method

DIN EN 12467 Fibre-cement flat sheets - Product specification and test methods
2018-07 (here: clause 7.2 – 7.4)

18 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 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
1997/464/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
1997/740/EC Masonry and related products	3	EN 845-1:2013+A1:2016 Specification for ancillary components for masonry - Part 1: Wall ties, tension straps, hangers and brackets
		EN 845-2:2013+A1:2016 Specification for ancillary components for masonry - Part 2: Lintels
		EN 845-3:2013+A1:2016 Specification for ancillary components for masonry - Part 3: Bed joint reinforcement of steel meshwork
1998/437/EC Internal and external wall and ceiling finishes	3	EN 13964:2014 Suspended ceilings - Requirements and test methods
		EN 14509:2013 Self-supporting double skin metal faced insulating panels - Factory made products
1999/90/EC Membranes	3	EN 13707:2004+A2:2009 Flexible sheets for waterproofing - Reinforced bitumen sheets for roof waterproofing - Definitions and characteristics
		EN 13859-1:2010 Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 1: Underlays for discontinuous roofing

Decision / resolution of the Commission	System ¹⁾	Technical specification
1999/90/EC Membranes	3	EN 13859-2:2010 Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 2: Underlays for walls
		EN 13956:2012 Flexible sheets for waterproofing - Plastic and rubber sheets for roof waterproofing - Definitions and characteristics
		EN 13967:2012 Flexible sheets for waterproofing - Plastic and rubber damp proof sheets including plastic and rubber basement tanking sheet - Definitions and characteristics
		EN 13969:2004+A1:2006 Flexible sheets for waterproofing - Bitumen damp proof sheets including bitumen basement tanking sheets - Definitions and characteristics
		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
1999/91/EC Thermal insulation products	3	EN 13162:2012+A1:2015 Thermal insulation products for buildings - Factory made mineral wool (MW) products
		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

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Decision / resolution of the Commission	System ¹⁾	Technical specification
1999/91/EC Thermal insulation products	3	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
1999/469/EC Products related to concrete, mortar and grout	3	EN 14889-1:2006 Fibres for concrete - Part 1: Steel fibres - Definitions, specifications and conformity
		EN 14889-2:2006 Fibres for concrete - Part 2: Polymer fibres - Definitions, specifications and conformity
1999/470/EC Construction adhesives	3	EN 12004:2007+A1:2012 Adhesives for tiles - Requirements, evaluation of conformity, classification and designation
		EN 12004-1:2007²⁾ Adhesives for tiles - Requirements, evaluation of conformity, classification and designation

¹⁾ System of assessment and verification of consistency of performance

²⁾ Harmonization in preparation (planned system: 3)

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 harmonized technical standards.

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- Translation -

Abbreviations used:

ASTM	American Society for Testing and Materials
BS	British Standard
CEB	Comité Européen du Béton
CUAP	Common Understanding of Assessment Procedure
DIBt	Deutsches Institut für Bautechnik
DVS	Deutscher Verband für Schweißen und verwandte Verfahren e.V.
EAD	European Assessment Document / Europäisches Bewertungsdokument
ETAG	European Technical Approval Guidelines / Europäische Richtlinien für technische Zulassungen
FIB	Fédération internationale du béton
FIP	Fédération Internationale de la Précontrainte
NEN	Nederlands Normalisatie-Instituut
NF	Norme Française
PA	Internal test procedure
PTI DC	Post-Tensioning Institute Document
RAL	Reichsausschuss für Lieferbedingungen und Gütesicherung beim Deutschen Normenausschuss
RILEM	Réunion Internationale des Laboratoires d'Essais et de Recherches sur les Matériaux et les Constructions
TL/TP-ING	Technische Lieferbedingungen und Technische Prüfvorschriften für Ingenieurbauten
VVS	vollverschlossene Seile