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

Karlsruher Institut für Technologie
KIT Stahl- und Leichtbau
Versuchsanstalt für Stahl, Holz und Steine
Otto-Ammann-Platz 1, 76131 Karlsruhe

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

Manual non-destructive testing (radiographic, ultrasound, penetrant and magnetic particle testing and visual inspection), mechanical-technological testing of metal materials and products, plastics and composite materials; testing of metallic and organic coatings and coated metals; selected fire behaviour testing of steel and lightweight constructions and testing of building products, building kits and building types;

Testing of construction products (system of assessment and verification of constancy of performance 3) within the scope of the Regulation (EU) No. 305/2011 laying down harmonised conditions for the marketing of construction products (Construction Products Regulation)

The accreditation certificate shall only apply in connection with the notice of accreditation of 08.10.2020 with the accreditation number D-PL-11068-01. It comprises the cover sheet, the reverse side of the cover sheet and the following annex with a total of 14 pages.

Registration number of the certificate: D-PL-11068-01-00

Berlin, 08.10.2020

Dr Heike Manke
Head of Division

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

See notes overleaf.
Deutsche Akkreditierungsstelle GmbH

Office Berlin
Spittelmarkt 10
10117 Berlin

Office Frankfurt am Main
Europa-Allee 52
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38116 Braunschweig

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-11068-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 08.10.2020
Date of issue: 08.10.2020

Holder of certificate:

Karlsruher Institut für Technologie
KIT Stahl- und Leichtbau
Versuchsanstalt für Stahl, Holz und Steine
Otto-Ammann-Platz 1, 76131 Karlsruhe

Tests in the fields:

Manual non-destructive testing (radiographic, ultrasound, penetrant and magnetic particle testing and visual inspection), mechanical-technological testing of metal materials and products, plastics and composite materials; testing of metallic and organic coatings and coated metals; selected fire behaviour testing of steel and lightweight constructions and testing of building products, building kits and building types;

Testing of construction products (system of assessment and verification of constancy of performance 3) within the scope of the Regulation (EU) No. 305/2011 laying down harmonised conditions for the marketing of construction products (Construction Products Regulation)

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods listed in this document 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 in DIN EN ISO/IEC 17025 are written in language relevant to operations of testing laboratories and operate generally in accordance with the principles of DIN EN ISO 9001.

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

Abbreviations used: see last page
1 Non-destructive testing

1.1 Radiographic testing

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<td>Non-destructive testing – Radiographic testing of metallic materials using film and X- or gamma rays – Basic rules Section 6</td>
</tr>
<tr>
<td>DIN EN ISO 10893-6 2019-06</td>
<td>Non-destructive testing of steel tubes – Part 6: Radiographic testing of the weld seam of welded steel tubes for the detection of imperfections</td>
</tr>
<tr>
<td>DIN EN ISO 17636-1 2013-05</td>
<td>Non-destructive testing of welds – Radiographic testing – Part 1: X- and gamma-ray techniques with film</td>
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<tr>
<td>DIN EN 1435 2002-09 + Corrigenda 1 2004-05</td>
<td>Non-destructive testing of welds - Radiographic testing of welded joints (withdrawn standard)</td>
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<tr>
<td>DIN EN 12681-1 2018-02</td>
<td>Founding - Radiographic testing - Part 1: Film techniques</td>
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1.2.1 Ultrasonic testing

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<tr>
<td>DIN EN ISO 16810 2014-07</td>
<td>Non-destructive testing – Ultrasonic testing – General principles</td>
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<tr>
<td>DIN EN ISO 17640 2019-02</td>
<td>Non-destructive testing of welds - Ultrasonic testing - Techniques, testing levels, and assessment Section 7-10 and annex A</td>
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<tr>
<td>DIN EN 10160 1999-09</td>
<td>Ultrasonic testing of steel flat product of thickness equal to or greater than 6 mm (reflection method)</td>
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<tr>
<td>DIN EN 10228-3 2016-10</td>
<td>Non-destructive testing of steel forgings – Part 3: Ultrasonic testing of ferritic or martensitic steel forgings</td>
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<tr>
<td>DIN EN 10308 2002-03</td>
<td>Non-destructive testing - Ultrasonic testing of steel bars</td>
</tr>
<tr>
<td>DIN EN 12680-1 2003-06</td>
<td>Founding - Ultrasonic examination - Part 1: Steel castings for general purposes</td>
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1.2.2 Penetrant testing

DIN EN ISO 10893-4 2011-07
Non-destructive testing of steel tubes - Part 4: Liquid penetrant inspection of seamless and welded steel tubes for the detection of surface imperfections

DIN EN 571-1 1997-03
Non-destructive testing - Penetrant testing - Part 1: General principles (withdrawn standard)

DIN EN 1371-1 2012-02
Founding - Liquid penetrant testing - Part 1: Sand, gravity die and low pressure die castings

DIN EN 1371-2 2015-04
Founding - Liquid penetrant testing - Part 2: Investment casting

DIN EN 10228-2 2016-10
Non-destructive testing of steel forgings - Part 2: Penetrant testing

1.2.3 Magnetic particle testing

DIN EN ISO 9934-1 2017-03
Non-destructive testing - Magnetic particle testing - Part 1: General principles
Section 7-10

DIN EN ISO 10893-5 2011-07
Non-destructive testing of steel tubes - Part 5: Magnetic particle inspection of seamless and welded ferromagnetic steel tubes for the detection of surface imperfections

DIN EN ISO 17638 2017-03
Non-destructive testing of welds - Magnetic particle testing

DIN EN 1369 2013-01
Founding - Magnetic particle testing

DIN EN 10228-1 2016-10
Non-destructive testing of steel forgings - Part 1: Magnetic particle inspection

1.2.4 Visual inspection

DIN EN ISO 17637 2017-04
Non-destructive testing of welds - Visual testing of fusion-welded joints
DIN EN 13018
2016-06
Non-destructive testing - Visual testing - General principles

2 Mechanical-technological Testing

DIN EN ISO 148-1
2017-05
Metallic materials - Charpy pendulum impact test - Part 1: Test method

DIN EN ISO 179-1
2010-11
Plastics - Determination of Charpy impact properties - Part 1: Non-instrumented impact test

DIN EN ISO 898-1
2013-05
Mechanical properties of fasteners made of carbon steel and alloy steel - Part 1: Bolts, screws and studs with specified property classes - Coarse thread and fine pitch thread
Section 9.2, 9.3, 9.6, 9.9, 9.13

DIN EN ISO 2702
2011-08
Fasteners - Heat-treated self-tapping screws – Mechanical properties
Section 6.2.1: Screw-in test
Section 6.2.2: testing of the torsional strength

DIN EN ISO 3506-1
2010-04
Mechanical properties of corrosion-resistant stainless steel fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 1: Bolts, screws and studs Part 1: Bolts
Section 7.2.2: tensile strength
Section 7.2.3: 0.2%-proof stress
Section 7.2.4: elongation at fracture
Section 7.2.5: fracture torque
Section 7.2.6 angular tensile test on screws from martensitic steel
Section 7.2.7: hardness HB, HRC, or HV

DIN EN ISO 3506-2
2010-04
Mechanical properties of corrosion-resistant stainless steel fasteners - Mechanical properties of corrosion-resistant stainless steel fasteners - Part 2: Nuts
Section 7.1: hardness, HB, HRC or HV
Section 7.2: test force

DIN EN ISO 3506-3
2010-04
Mechanical properties of corrosion-resistant stainless steel fasteners - Part 3: Set screws and similar fasteners not under tensile stress
Section 6: Test Methods
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<td>Mechanical properties of corrosion-resistant stainless steel fasteners – Part 4: Tapping screws Section 6: Test Methods</td>
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<td>Destructive tests on welds in metallic materials - Transverse tensile test</td>
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<td>Destructive tests on welds in metallic materials - Bend tests</td>
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<td>Metallic materials - Tensile testing - Part 1: Method of test at room temperature – procedure B</td>
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<td>Metallic materials - Bend test</td>
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<td>DIN EN ISO 9015-1</td>
<td>Destructive tests on welds in metallic materials - Hardness testing - Part 1: Hardness test on arc welded joints</td>
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<td>DIN EN ISO 9015-2</td>
<td>Destructive tests on welds in metallic materials - Hardness testing - Part 2: Microhardness testing of welded joints</td>
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<td>Destructive tests on welds in metallic materials - Fracture test</td>
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<td>DIN EN ISO 9018</td>
<td>Destructive tests on welds in metallic materials - Tensile test on cruciform and lapped joints</td>
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<td>Drilling screws with tapping screw thread - Mechanical and functional properties Section 4.2.1: Drilling - and screw-in test Section 4.2.3: Torsional strength test</td>
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<td>Welding - Arc stud welding of metallic materials Section 11: Investigation and test</td>
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<td>Testing of metallic materials - Compression test at room temperature</td>
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DIBt Guidelines of 01.08.1999

Principles for verification of compliance for fastening elements in lightweight metal constructions section 2: blind rivet
Section 2.1 Dimensional Testing
Section 2.3 Application and Functional Testing section: 3 screws
Section 3.1 Verification of Dimensions and Manufacturer's Symbol
Section 3.3.1 Testing of Thread Moulding Torque
Section 3.4.1 Testing of Drilling and Thread Moulding
Section 3.7 Testing of Tension Load Resistance section 4 bolts
Section 4.1 Dimensional Testing

SEP 1390
1996-07

Weld bead bend test

3 Macroscopic and Microscopic Investigations

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

DIN EN 1321
1996-12
Destructive tests of welds in metallic materials - Macroscopic and microscopic examination of welds
(withdrawn standard)

4 Testing of Coatings
4.1 Measurement of coating thickness

DIN EN ISO 1460
1995-01
Metallic coatings - Hot dip galvanized coatings on ferrous materials - Gravimetric determination of the mass per unit area

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 13523-1
2017-05
Coil coated metals - Test methods - Part 1: Film thickness

4.2 Mechanical testing

DIN EN ISO 2409
2013-06
Paints and varnishes - Cross-cut test
DIN EN 10346  Continuously hot-dip coated steel flat products for cold forming - 2015-10  Technical delivery conditions  Section 8.5.5 Coating Mass

DIN EN 13523-6  Coil coated metals - Test methods - Part 6: Adhesion after 2002-10  indentation (cupping test)

DIN EN 13523-7  Coil coated metals - Test methods - Part 7: Resistance to cracking 2014-08  on bending (T-bend test)

4.3 Testing in artificial atmospheres


DIN EN ISO 6988  Metallic and other non-organic coatings - Sulphur dioxide test with 1997-03  general condensation of moisture

DIN EN ISO 9227  Corrosion tests in artificial atmospheres - Salt spray tests 2017-07

DIN EN 13523-8  Coil coated metals - Test methods - Part 8: Resistance to salt spray 2017-10  (fog)

DIN EN 13523-13  Coil coated metals – Test methods – Part 13: Resistance to 2014-08  accelerated ageing by the use of heat

DIN EN 13523-23  Coil coated metals – Test methods – Part 23: Resistance to humid 2015-09  atmospheres containing sulphur dioxide

DIN EN 13523-26  Coil coated metals - Test methods - Part 26: Resistance to 2014-08  condensation of water

DIN 50018  Testing in a saturated atmosphere in the presence of sulphur 2013-05  dioxide

Valid from: 08.10.2020
Date of issue: 08.10.2020
4.4 Other tests

CUAP 03.02/18 Thin Walled Steel Flat Products Predominately for Roofing and Cladding with Organic Coilcoating System - Testing according to section 2.4.8 to 2.4.17

5 Timber products and fasteners

DIN EN 408 Timber structures - Structural timber and glued laminated timber - Determination of some physical and mechanical properties

2012-10

Section 5 Determination of dimensions of test pieces
Section 6 Determination of moisture content of test pieces
Section 7 Determination of density of test pieces
Section 8 Determination of local modulus of elasticity in bending
Section 10 Determination of global modulus of elasticity in bending
Section 11 Determination of the shear modulus according to section 11.2 Shear field test method
Section 12 Determination of modulus of elasticity in tension parallel to the grain
Section 13 Determination of tension strength parallel to the grain
Section 14 Determination of modulus of elasticity in compression parallel to the grain
Section 15 Determination of compression strength parallel to grain
Section 16 Determination of tension an compression strength perpendicular to the grain
Section 17 Determination of modulus of elasticity perpendicular to the grain
Section 18 Determination of shear strength parallel to the grain
Section 19 Bending strength parallel to grain

DIN EN 409 Timber structures - Test methods - Determination of the yield moment of dowel type fasteners

2009-08

DIN EN 1382 Timber structures - Test methods - Withdrawal capacity of timber fasteners

2016-07

DIN EN 1383 Timber structures - Test methods - Pull through resistance of timber fasteners

2016-07

DIN EN 13183-1  Moisture content of a piece of sawn timber - Part 1: Determination by oven dry method
2002-07 + Corrigenda 1 2003-12

DIN EN 14358  Timber structures - Calculation and verification of characteristic values
2016-11

DIN EN 15737  Timber structures - Test methods - Torsional resistance of driving in screws
2009-12

6 Reaction to fire tests

DIN EN ISO 11925-2 Reaction to fire tests – Ignitability of products subjected to direct impingement of flame – Part 2: Single-flame source test
2011-02

In conjunction with:

DIN EN 13501-01 Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests
2019-05

DIN 4102-1 Fire behaviour of building materials and building components — Part 1: Building materials, terminology, requirements and tests (B2)
1998-05

7 Testing of Building Products, Building Types, Building Parts and Building Structures in accordance with European Norms and Rules

7.1 Testing of building products and building types

ETAG 006 Guideline for European technical approval of systems of mechanically fastened flexible roof waterproofing membranes in accordance with Annex D of the change version draft in conjunction with DIN EN 12691:2006-06-00 and ISO 179-1:2010-11-00, except for the unwinding test
2000-03 + draft of change of 05.01.2007

EAD 030351-00-0402 Systems of mechanically fastened flexible roof waterproofing sheets – here tests according table 7 except for the unwinding test

Valid from: 08.10.2020
Date of issue: 08.10.2020
DIN EN 14509 2013-12  
Self-supporting double skin metal faced insulating panels – Factory made products – Specifications  
- Annex A.1: Cross panel tensile test  
- Annex A.2: Compressive strength and modulus of the core material  
- Annex A.3: Shear test on the core material  
- Annex A.3.5: Calculations and results - short-term loading  
- Annex A.3.6: Test procedures, calculations and results - long term loading  
- Annex A.4: Test to determine the shear properties of a complete panel  
- Annex A.5: Test to determine the bending moment capacity of a simply supported panel  
- Annex A.6: Determination of the creep coefficient ($\phi_t$)  
- Annex A.7: Interaction between bending moment and support force  
- Annex A.8: Determination of apparent core density and mass of panel  
- Annex A.9: Test for resistance to point loads and repeated loads  
- Annex A.15: Support reaction capacity at the end of a panel  
- Annex B.2: Test DUR1 - Annex B.3: Test DUR2  
- Annex B.5: Adhesive bond between faces and prefabricated core material (wedge test)  
- Annex B.6: Repeated loading test  
- Annex C.1.2: Fire test EN ISO 11925-2 (ignitability test)  
- Annex C.4: Determination of the amount and thickness of the adhesive layer  
- Annex D.2: Dimensional tolerances

DIN EN 1382 2016-07  
Timber structures - Test methods - Withdrawal capacity of timber fasteners

7.2 Testing of building parts and building structures

DIN EN 14782 2006-03  
Self-supporting metal sheet for roofing, external cladding and internal lining – Product specification and requirements  
Section 4.3.2: Resistance of roofing products to concentrated forces
CUAP 03.02/14
Cable net systems –
Chapter 2.4.1: Tension resistance of stainless steel wire ropes for static load
Chapter 2.4.2: Modulus of elasticity of stainless steel wire ropes for static loads
Chapter 2.4.3: Slipping resistance of clamp for static loads
Chapter 2.4.4: Tension resistance of shackles for static loads
Chapter 2.4.5 Safety of horizontal cable net systems against impact loads
Chapter 2.4.6: Safety of vertical cable net systems against impact loads

CUAP 06.02/02
Tension Rod System
Section 4.1: Determination of characteristic values of tension resistance by tension test

CUAP 06.02/03
Point Fastener – Testing of load bearing capacity
Section 2.4.1.1 Methods of verification

CUAP 06.02/07
Fastening screws for metal members and sheeting
Chapter 2.4.1: Shear resistance of the connections
Chapter 2.4.2: Tension resistance of the connections
Measurement of the geometry in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Section 3.1
Shear fracture testing in accordance with Table 3 in conjunction with ECCS publication no. 42, Section B.3.4.2
Shear fracture testing in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Section 3.7
Bolt penetration behaviour and torsion fracture in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Sections 3.3.1, 3.3.2, 3.4.1 and 3.4.2
Hydrogen embrittlement in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Section 3.6
Ductility (bolt head impact testing) in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Section 3.5 and DIN EN ISO 898-1

CUAP 06.02/09
Prefabricated steel and stainless steel wire ropes with end connectors
Chapter 2.4.1: Tension resistance
Chapter 2.4.2: Modulus of elasticity
CUAP 06.02/12  Fastening Screws for Sandwich Panels
Chapter 2.4.1: Shear resistance of the connections
Chapter 2.4.2: Tension resistance of the connections
Chapter 2.4.3: Design resistance in case of combined tension and shear forces
Chapter 2.4.4: Check of bending capacity in case of thermal expansion (bending test)
Measurement of the geometry in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Section 3.1
Shear fracture testing in accordance with Table 3 in conjunction with ECCS publication no. 42, Section B.3.4.2
Shear fracture testing in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Section 3.7
Bolt penetration behaviour and torsion fracture in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Sections 3.3.1, 3.3.2, 3.4.1 and 3.4.2
Hydrogen embrittlement in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Section 3.6
Ductility (bolt head impact testing) in accordance with Table 3 in conjunction with the DIBt Guideline of 01.08.1999, Section 3.5 and DIN EN ISO 898-1

CUAP 06.02/13  Blind rivets for metal members and sheeting
Chapter 2.4.1: Shear resistance of the connections
Chapter 2.4.2: Tension resistance of the connections
Chapter 2.4.3: Shear resistance of blind rivet
Chapter 2.4.4: Tension resistance of blind rivet
Chapter 2.4.5: Design resistance in case of combined tension and shear forces
Measurement of the geometry in accordance with Table 4 in conjunction with the DIBt Guideline of 01.08.1999, Section 2.1

CUAP 03.02/16  Roof and Wall Systems with Hidden Fastenings
Chapter 2.4.1: Mechanical resistance and stability, safety in use
Chapter 2.4.3: Corrosion protection of elements made of metal

EAD 331072-00-0601-2017-10  Anchor Devices for Fastening Personal Fall Protection Systems to Concrete Structures
Chapter 2.2.4: Static load
Chapter 2.2.5: Dynamic loading
Chapter 2.2.6: Check of deformation capacity in case of constraining forces
Chapter 2.2.7: Durability
Annex to the accreditation certificate D-PL-11068-01-00

ECCS publication no. 124
The Testing of Connections with Mechanical Fasteners in Steel Sheeting and Sections
Chapter 3: Test Procedures

CIB Report publication
Preliminary European Recommendations for testing and design of fastenings for sandwich panels
Chapter 2: Testing of fastenings used to fix the panels to the frames of buildings
Chapter 3: Testing of fastenings installed to a face layer
Chapter 4: Additional tests

320/ECCS publication no. 127

8 Testing of construction products (system of assessment and verification of constancy of performance 3) within the scope of the Regulation (EU) No. 305/2011 laying down harmonised conditions for the marketing of construction products (Construction Products Regulation)

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<th>Technical Specification</th>
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1) System of assessment and verification of consistency of performance

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

Without prior approval by the DAkkS German Accreditation Body, the testing laboratory body is permitted to use new revisions of harmonised technical specifications

Abbreviations used:

CIB International Council for Research and Innovation in Building and Construction
CUAP Common Understanding Assessment Procedure
EAD European Assessment Document
ECCS European Convention for Constructional Steelwork
ETAG European Technical Approval Guideline
SEP Stahl-Eisen-Prüfblatt
(Steel-Iron Test Sheet)

Valid from: 08.10.2020
Date of issue: 08.10.2020