

Accreditation



The Deutsche Akkreditierungsstelle attests with this **Accreditation Certificate** that the testing laboratory

Forschungsinstitut für Wärmeschutz e. V. München Lochhamer Schlag 4, 82166 Gräfelfing

meets the minimum requirements according to DIN EN ISO/IEC 17025:2018 for the conformity assessment listed in the annex to this certificate. This includes additional existing legal and normative requirements, including those in relevant sectoral schemes.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

This accreditation was issued in accordance with Art. 5 Para. 1 Sentence 2 of Regulation (EC) 765/2008, after an accreditation procedure was carried out in compliance with the minimum requirements of DIN EN ISO/IEC 17011 and on the basis of a review and decision of the appointed accreditation committees.

This accreditation certificate only applies in connection with the notices of 19.12.2022 with accreditation number D-PL-14116-01.

It consists of this cover sheet, the reverse side of the cover sheet and the following annex with a total of 16 pages.

Registration number of the accreditation certificate: D-PL-14116-01-00

Berlin, 19.12.2022

Dipl.-Ing. Evelyn Körner Head of Technical Unit Translation issued: 19.12.2022

Dipl.-Ing. Evelyn Körner Head of Technical Unit

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 can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH (www.dakks.de).

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

Deutsche Akkreditierungsstelle GmbH

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The Deutsche Akkreditierungsstelle GmbH (DAkkS) is the entrusted national accreditation body of the Federal Republic of Germany according to § 8 section 1 AkkStelleG in conjunction with § 1 section 1 AkkStelleGBV. DAkkS is designated as the national accreditation authority by Germany according to Art. 4 Para. 4 of Regulation (EC) 765/2008 and clause 4.7 of DIN EN ISO/IEC 17000.

Pursuant to Art. 11 section 2 of Regulation (EC) 765/2008, the accreditation certificate shall be recognised as equivalent by the national authorities within the scope of this Regulation as well as by the WTO member states that have committed themselves in bilateral or multilateral mutual agreements to recognise the certificates of accreditation bodies that are members of ILAC or IAF as equivalent.

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 Co-operation (ILAC).

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

Annex to the Accreditation Certificate D-PL-14116-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 19.12.2022 Date of issue: 19.12.2022

Holder of accreditation certificate:

Forschungsinstitut für Wärmeschutz e. V. München Lochhamer Schlag 4, 82166 Gräfelfing

The testing laboratory meets the minimal requirements of DIN EN ISO/IEC 17025:2018 and, if applicable, additional legal and normative requirements, including those in relevant sectoral schemes, in order to carry out the conformity assessment activities listed below.

The management system requirements of DIN EN ISO/IEC 17025 are written in the language relevant to the operations of testing laboratories and confirm generally with the principles of DIN EN ISO 9001.

Tests in the fields:

Tests at thermal insulation materials, building materials, underlays and construction units: determination of the thermal conductivity and of the service temperature; tests of reaction to fire; tests of the mechanically-technological, physical and selected chemical properties as well as sampling of thermal insulation materials on behalf of certification bodies

Testing of flexible sheets for waterproofing and thermal insulation 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)

Tests of reaction to fire of construction products, for which the reference to a relevant harmonised technical specification is not required (chapter 3. Annex V, (EU) No 305/2011)

This certificate annex is only valid together with the written accreditation certificate and reflects the status as indicated by the date of issue. The current status of any given scope of accreditation can be found in the directory of accredited bodies maintained by Deutsche Akkreditierungsstelle GmbH at https://www.dakks.de.

Abbreviations used: see last page



Within the scope of accreditation marked with * 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 listed testing methods are exemplary. The testing laboratory maintains a current list of all testing methods within the flexible scope of accreditation.

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1	deto test sam	ts at thermal insulation materials, building materials, underlays and construction units: ermination of the thermal conductivity and of the service temperature; tests of reaction to fire; s of the mechanically-technological, physical and selectd chemical properties as well as upling of thermal insulation materials Probenahme von Wärmedämmstoffen on behalf of ification bodies		
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3	Tests of reaction to fire of construction products, for which the reference to a relevant harmonise technical specification is not required (chapter 3. Annex V, (EU) No 305/2011)			



Tests at thermal insulation materials, building materials, underlays and construction units: determination of the thermal conductivity and of the service temperature; tests of reaction to fire; tests of the mechanically-technological, physical and selected chemical properties as well as sampling of thermal insulation materials on behalf of certification bodies

1.1 Tests of thermal conductivity *

EN ISO 8497 1996	Thermal insulation - Determination of steady-state thermal transmission properties of thermal insulation for circular pipes
ISO 8301 AMD 1 2010-08	Thermal insulation - Determination of steady-state thermal resistance and related properties - Heat flow meter apparatus; Amendment 1
ISO 8302 1991-08	Thermal insulation; determination of steady-state thermal resistance and related properties; guarded hot plate apparatus
EN 12664 2001	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
EN 12667 2001	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
EN 12939 2000	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
DIN 52612-3 1984-06	Testing of Thermal Insulating Materials; Determination of Thermal Conductivity by the Guarded Hot Plate Apparatus; Thermal Resistance of Laminated Materials for Use in Building Practice (withdrawn standard)
DIN 52613 1977-01	Thermal Insulation Testings; Determination of Thermal Conductivity by the Tube Method (withdrawn standard)

Valid from: 19.12.2022 Date of issue: 19.12.2022

ASTM C 177

2019

Apparatus

Standard Test Method for Steady-State Heat Flux Measurements and Thermal Transmission Properties by Means of the Guarded-Hot-Plate



ASTM C 518 Standard Test Method for Steady-State Heat Thermal Transmission

2017 Properties by Means of the Heat Flow Meter Apparatus

ASTM C 335/C335M Standard Test Method for Steady-State Heat Transfer Properties of

2017 Horizontal Pipe Insulation

1.2 Tests of reaction to fire *

EN 16733 Reaction to fire tests for building products - Determination of a

2016-07 building product's propensity to undergo continuous smouldering

DIN 4102-1 Fire behavior of building materials and building components - Part 1:

1998-05 Building materials; concepts, requirements and tests

(here: Paragraph 6.2 - Building material class B2 and Paragraph 6.3 -

Building material class B3)

1.3 Tests of the service temperature *

ISO 8142 Thermal insulation; bonded preformed man-made mineral fibre pipe

1990-03 sections; specification

EN 14706 Thermal insulating products for building equipment and industrial

2012 installations - Determination of maximum service temperature

EN 14707 Thermal insulating products for building equipment and industrial

2012 installations - Determination of maximum service temperature for

preformed pipe insulation

DIN 52271 Testing of mineral fibre insulating materials; Behaviour at elevated

1981-06 temperatures

(withdrawn standard)



1.4 Tests of dimensions and bulk density as mechanically-technological characteristics.	teristics *
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ISO 23766 Thermal insulating products for industrial installations - Determination

2022 of the coefficient of linear thermal expansion at sub-ambient

temperatures

Method B

EN ISO 4590 Rigid cellular plastics - Determination of the volume percentage of

2016 open cells and of closed cells

EN ISO 9053-1 Acoustics - Determination of airflow resistance - Part 1: Static airflow

2018 method

EN ISO 16535 Thermal insulating products for building applications - Determination

2019 of long term water absorption by immersion

EN ISO 16536 Thermal insulating products for building applications - Determination

2019 of long term water absorption by diffusion

EN ISO 29767 Thermal insulating products for building applications - Determination

2019 of short term water absorption by partial immersion

EN 822 Thermal insulating products for building applications - Determination

2013 of length and width

EN 823 Thermal insulating products for building applications - Determination

2013 of thickness

EN 824 Thermal insulating products for building applications - Determination

2013 of squareness

EN 825 Thermal insulating products for building applications - Determination

2013 of flatness

EN 826 Thermal insulating products for building applications - Determination

2013 of compression behavior

EN 1602 Thermal insulating products for building applications - Determination

2013 of the apparent density

EN 1603 Thermal insulating products for building applications - Determination

2013 of dimensional stability under constant normal laboratory conditions

(23 °C/ 50 % relative humidity)



EN 1604 2013	Thermal insulating products for building applications - Determination of dimensional stability under specified temperature and humidity conditions
EN 1605 2013	Thermal insulating products for building applications - Determination of deformation under specified compressive load and temperature conditions
EN 1606 2013	Thermal insulating products for building applications - Determination of compressive creep
EN 1607 2013	Thermal insulating products for building applications - Determination of tensile strength perpendicular to faces
EN 1608 2013	Thermal insulating products for building applications - Determination of tensile strength parallel to faces
EN 1609 2013	Thermal insulating products for building applications - Determination of short term water absorption by partial immersion (withdrawn standard)
EN 12085 2013	Thermal insulating products for building applications - Determination of linear dimensions of test specimen
EN 12087 2013	Thermal insulating products for building applications - Determination of long term water absorption by immersion (withdrawn standard)
EN 12088 2013	Thermal insulating products for building applications - Determination of long term water absorption by diffusion (withdrawn standard)
EN 12089 2013	Thermal insulating products for building applications - Determination of bending behavior
EN 12090 2013	Thermal insulating products for building applications - Determination of shear behavior
EN 12091 2013	Thermal insulating products for building applications - Determination of freeze-thaw resistance
EN 12114 2000	Thermal performances of buildings - Air permeability of building components and building elements - Laboratory test method



EN 12430 2013	Thermal insulating products for building applications - Determination of behaviour under point load		
EN 12431 2013	Thermal insulating products for building applications - Determination of thickness for floating floor insulating products		
EN 13467 2018	Thermal insulating products for building equipment and industrial installations - Determination of dimensions, squareness and linearity of preformed pipe insulation		
EN 13470 2001	Thermal insulating products for building equipment and industrial installations - Determination of the apparent density of preformed pipe insulation		
EN 13471 2001	Thermal insulating products for building equipment and industrial installations - Determination of the coefficient of thermal expansion		
EN 13472 2012	Thermal insulating products for building equipment and industrial installations - Determination of short term water absorption by partial immersion of preformed pipe insulation		
EN 13820 2003-12	Thermal insulating materials for building applications - Determination of organic content		
EN 17140 2020	Thermal insulation products for buildings - Factory-made vacuum insulation panels (VIP) – Specification chapter 5.2.6.2 Thermal resistance of the ventilated VIP under ambient pressure due to damage annex D Measurement of p1/2 of core materials annex E Barrier performance of the envelope annex F Determination of desiccant service life time annex G Measurement of inner presure		
EN 29052-1 1991	Acoustics; determination of dynamic stiffness; part 1: materials used under floating floors in dwellings		
EN 29053 1993	Acoustics; materials for acoustical applications; determination of airflow resistance (withdrawn standard)		
DIN 18159-1 1991-12	Cellular plastics as in-situ cellular plastics in building; in-situ polyurethane (PUR) foam for thermal insulation; application, properties, execution, testing (withdrawn standard)		



DIN 53433

1983-07

DIN 18159-2 1978-06	Cellular Plastics as in-situ Foam in Building; In-situ Foam Produced from Urea-formaldehyde (UF) Resin for Thermal Insulation; Application, Properties, Execution, Testing
DIN 52273 1993-05	Testing of mineral wool insulating materials; determination of annealing loss (withdrawn standard)
DIN 52275-1 1977-01	Testing of mineral fibrous insulating materials; determination of linear dimensions and bulk density, plain products (withdrawn standard)
DIN 52275-2 1978-08	Testing of mineral fibrous insulating materials; determination of linear dimensions and bulk density, casings
DIN 53421 1984-06	Testing of rigid cellular plastics; compression test (withdrawn standard)
DIN 53424 1978-12	Testing of Rigid Cellular Materials; Determination of Dimensional Stability at Elevated Temperatures with Flexural Load and with Compressive Load (withdrawn standard)
DIN 53431 1977-08	Testing of rigid cellular plastics; determination of dimensional stability (withdrawn standard)

1.5 Tests of chemical behavior *

EN ISO 10304-1 Water quality - Determination of dissolved anions by liquid

water immersion (withdrawn standard)

2009 chromatography of ions - Part 1: Determination of bromide, chloride,

fluoride, nitrate, nitrite, phosphate and sulfate

(Limitation to the determination of the dissolved anions chloride)

Testing of rigid cellular plastics; determination of water absorption by

EN 13468 Thermal insulating products for building equipment and industrial 2001

installations - Determination of trace quantities of water soluble

chloride, fluoride, silicate, and sodium ions and pH

(Limitation to the determination of the chloride ions and the pH value)



1.6 Tests of water vapour transmission properties *

EN ISO 12570 Hygrothermal performance of building materials and products -

2000+A1:2013+A2:2018 Determination of moisture content by drying at elevated temperature

EN ISO 12571 Hygrothermal performance of building materials and products -

Determination of hygroscopic sorption properties 2013

EN ISO 12572 Hygrothermal performance of building materials and products -

2016 Determination of water vapour transmission properties

EN 1931 Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets 2000

for roof waterproofing - Determination of water vapour transmission

properties

EN 12086 Thermal insulating products for building applications - Determination

of water vapour transmission properties 2013

EN 13469 Thermal insulating products for building equipment and industrial 2012 installations - Determination of water vapour transmission properties

of preformed pipe insulation

DIN 52615 Testing of thermal insulating materials; determination of water vapour

1987-11 (moisture) permeability of construction and insulating materials

(withdrawn standard)

ASTM E 96/E 96M Standard Test Methods for Water Vapour Transmission of

2016 Materials

1.7 Tests of underlays *

EN 1107-1 Flexible sheets for waterproofing - Determination of dimensional

1999 stability - Part 1: Bitumen sheets for roof waterproofing

EN 1107-2 Flexible sheets for waterproofing - Determination of dimensional

stability - Part 2: Plastic and rubber sheets for roof waterproofing 2001

EN 1109 Flexible sheets for waterproofing - Bitumen sheets for roof

2013 waterproofing - Determination of flexibility at low temperature

EN 1296 Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets

2000 for roof waterprofing - Method for artificial ageing by long term

exposure to elevated temperature



EN 1297 2004	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
EN 1848-1 1999	Flexible sheets for waterproofing - Determination of length, width and straightness - Part 1: Bitumen sheets for roof waterproofing
EN 1848-2 2019	Flexible sheets for waterproofing - Determination of length, width, straightness and flatness - Part 2: Plastic and rubber sheets for roof waterproofing
EN 1849-1 1999	Flexible sheets for waterproofing - Determination of thickness and mass per unit area - Part 1: Bitumen sheets for roof waterproofing
EN 1849-2 2009	Flexible sheets for waterproofing - Determination of thickness and mass per unit area - Part 2: Plastic and rubber sheets
EN 1928 2000	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Determination of water tightness
EN 12310-1 1999	Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing; determination of resistance to tearing (nail shank)
EN 12311-1 1999	Flexible sheets for waterproofing - Part 1: Bitumen sheets for roof waterproofing; Determination of tensile properties
EN 13111 2010	Flexible sheets for waterproofing - Underlays for discontinuous roofing and walls - Determination of resistance to water penetration
EN 13416 2001	Flexible sheets for waterproofing - Bitumen, plastic and rubber sheets for roof waterproofing - Rules for sampling
EN 13859-1 2014	Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 1: Underlays for discontinuous roofing
EN 13859-2 2014	Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 2: Underlays for walls

1.8 Sampling

va 8-(3a) Sampling of thermal insulation materials - withdrawal on behalf of EUCEB and GGM



Testing of flexible sheets for waterproofing and thermal insulation 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)

Decision / resolution of the commission	System 1)	Technical specification
1999/90/EC Membranes – Roof underlays (in buildings)	3	EN 13859-1:2010 Flexible sheets for waterproofing - Definitions and characteristics of underlays - Part 1: Underlays for discontinuous roofing
1999/90/EC Membranes – Water vapour control layers (in buildings)	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 13984:2013 Flexible sheets for waterproofing - Plastic and rubber vapour control layers - Definitions and characteristics
1999/91/EC Thermal insulating products (factory-made products and products intended to be formed in-situ)	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



Decision / resolution of the commission	System 1)	Technical specification
	3	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
		EN 14303:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made mineral wool (MW) products - Specification
1999/91/EC Thermal insulating products (factory-made products and products intended to be		EN 14304:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made flexible elastomeric foam (FEF) products - Specification
formed in-situ)		EN 14305:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made cellular glass (CG) products - Specification
		EN 14306:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made calcium silicate (CS) products - Specification
		EN 14307:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made extruded polystyrene foam (XPS) products - Specification
		EN 14308:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made rigid polyurethane foam (PUR) and polyisocyanurate foam (PIR) products - Specification



Decision / resolution of the commission	System 1)	Technical specification
	3	EN 14309:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made products of expanded polystyrene (EPS) - Specification
		EN 14313:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made polyethylene foam (PEF) products - Specification
		EN 14314:2009 + A1:2013 Thermal insulation products for building equipment and industrial installations - Factory made phenolic foam (PF) products - Specification
1999/91/EC		EN 14315-1:2013 Thermal insulating products for buildings - In-situ formed sprayed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products - Part 1: Specification for the rigid foam spray system before installation
Fhermal insulating products factory-made products and products intended to be formed in-situ)		EN 14316-1:2004 Thermal insulation products for buildings - In-situ thermal insulation formed from expanded perlite (EP) products - Part 1: Specification for bonded and loose-fill products before installation
		EN 14317-1:2004 Thermal insulation products for buildings - In-situ thermal insulation formed from exfoliated vermiculite (EV) products - Part 1: Specification for bonded and loose-fill products before installation
		EN 14318-1:2013 Thermal insulating products for buildings - In-situ formed dispensed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products - Part 1: Specification for the rigid foam dispensed system before installation
		EN 14319-1:2013 Thermal insulating products for building equipment and industrial installations - In-situ formed dispensed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products - Part 1: Specification for the rigid foam dispensed system before installation



Decision / resolution of the commission	System 1)	Technical specification
	3	EN 14320-1:2013 Thermal insulating products for building equipment and industrial installations - In-situ formed sprayed rigid polyurethane (PUR) and polyisocyanurate (PIR) foam products - Part 1: Specification for the rigid foam spray system before installation
		EN 14933:2007 Thermal insulation and light weigth fill products for civil engineering applications - Factory made products of expanded polystyrene (EPS) - Specification
1000/01/56		EN 14934:2007 Thermal insulation and light weight fill products for civil engineering applications - Factory made products of extruded polystyrene foam (XPS) - Specification
1999/91/EC Thermal insulating products (factory-made products and products intended to be formed in-situ)		EN 15501:2013 Thermal insulation products for building equipment and industrial installations - Factory made expanded perlite (EP) and exfoliated vermiculite (EV) products - Specification
		EN 15599-1:2010 Thermal insulation products for building equipment and industrial installations - In-situ thermal insulation formed from expanded perlite (EP) products - Part 1: Specification for bonded and loose-fill products before installation
		EN 15600-1:2010
		Thermal insulation products for building equipment and industrial installations - In-situ thermal insulation formed from exfoliated vermiculite (EV) products - Part 1: Specification for bonded and loose-fill products before installation
		ETA-98/0009 Insulation panels and insulation felts

¹⁾ of assessment and verification of constancy of performance

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.

The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use harmonized technical standards with different issue dates.



3 Tests of reaction to fire of construction products, for which the reference to a relevant harmonised technical specification is not required (chapter 3. Annex V, (EU) No 305/2011)

Reaction to fire*

EN ISO 1182 Reaction to fire tests for products - Non-combustibility test

2010

2010

EN ISO 1716 Reaction to fire tests for products - Determination of the gross

2018 heat of combustion (calorific value)

EN ISO 11925-2 Reaction to fire tests - Ignitability of products subjected to direct

impingement of flame - Part 2: Single-flame source test

(here: Euro-class E) 1)

In connection with:

EN 13501-1 Fire classification of construction products

2018 and building elements - Part 1:

Classification using data from reaction to

fire tests

¹⁾ Testing methods within the standard, which cannot be executed by the holder of the certificate, are described in the list of subcontractors.



Abbreviations used:

ASTM American Society for Testing and Materials

EN European Standards

EUCEB European Certification Board for Mineral Wool Products

ETA European technical approval

GGM Gütegemeinschaft Mineralwolle e.V.
ISO International Standardization Organization

va- In house method of the CAB