

# Deutsche Akkreditierungsstelle

## Annex to the Partial Accreditation Certificate D-PL-17152-01-01 according to DIN EN ISO/IEC 17025:2018

**Valid from:** 23.02.2023

**Date of issue:** 23.02.2023

This annex is a part of the accreditation certificate D-PL-17152-01-00.

Holder of partial accreditation certificate:

**TFI Aachen GmbH**  
**Charlottenburger Allee 41, 52068 Aachen**

The testing laboratory meets the requirements of DIN EN ISO/IEC 17025:2018 to carry out the conformity assessment activities listed in this annex. The testing laboratory meets additional legal and normative requirements, if applicable, including those in relevant sectoral schemes, provided that these are explicitly confirmed 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.

**Physical-technological tests on floor coverings and floor systems, installation materials, textiles, foams and latices; determination (sampling and analysis) of organic air constituents in indoor measurements and test chamber tests; acoustic and thermal tests on building products, building components and products of interior decoration;**

**Testing of construction products (system 3 of assessment and verification of constancy of performance) 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 acoustic performance and of emissions of dangerous substances, for which the reference to a relevant harmonised technical specification is not required (point 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>.*

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**The testing laboratory is permitted, without being required to inform and obtain prior approval from DAkkS, to use standards or equivalent testing methods (without internal test procedures) listed here with different issue dates.**

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

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

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**1 Physical-technological tests of floor coverings and floor systems, flooring products, textiles, foams and latices**

**1.1 Burning behaviour**

ISO 7176-16 2012	Wheelchairs Part 16: Resistance to ignition of postural support devices <i>(withdrawn standard)</i>
ISO 8191-1 1987	Furniture; Assessment of the ignitability of upholstered furniture; Part 1: Ignition source: smouldering cigarette
ISO 8191-2 1988	Furniture; assessment of ignitability of upholstered furniture; Part 2: Ignition source: match-flame equivalent
DIN EN ISO 9239-1 2010-11	Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source
DIN EN ISO 11925-2 2020-07	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test
DIN EN 1021-1 2014-10	Furniture - Assessment of the ignitability of upholstered furniture - Part 1: Ignition source smouldering cigarette
DIN EN 1021-2 2014-10	Furniture - Assessment of the ignitability of upholstered furniture - Part 2: Ignition source match flame equivalent
DIN 4102-1 1998-05	Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests <i>(here only: Chapter 6.2, Building material class B2, page 10 ff. of standard)</i>
ASTM E648 2019 ae1	Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source

**1.2 Flooring tests**

ISO 1763 2020	Carpets; Determination of number of tufts and/or loops per unit length and per unit area
ISO 1765 1986	Machine-made textile floor coverings; Determination of thickness

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ISO 1766 1999	Textile floor coverings - Determination of thickness of pile above the substrate
ISO 2551 2020	Textile floor coverings and textile floor coverings in tile form - Determination of dimensional changes due to the effects of varied water and heat conditions and distortion out of plane
ISO 3415 1986	Textile floor coverings - Determination of thickness loss after brief, moderate static loading
DIN EN ISO 4918 2021-06	Resilient, textile and laminate floor coverings - Castor chair test
ISO 8543 2020	Textile floor coverings - Methods for determination of mass
DIN EN ISO 9405 2017-09	Textile floor coverings - Assessment of changes in appearance
ISO 10361 2015	Textile floor coverings - Production of changes in appearance by means of Vettermann drum and hexapod tumbler tester
DIN EN ISO 12951 2020-10	Textile floor coverings - Determination of mass loss, fibre bind and stair nosing appearance change using the Lisson Tretrad machine
DIN EN ISO 23997 2012-04	Resilient floor coverings - Determination of dimensional stability and curling after exposure to heat
DIN EN ISO 23999 2022-02	Resilient floor coverings - Determination of thickness of layers
DIN EN ISO 24340 2012-04	Resilient and textile floor coverings - Determination of length, width and straightness of sheet
DIN EN ISO 24341 2012-04	Resilient and laminate floor coverings - Determination of indentation and residual indentation - Part 1: Residual indentation
DIN EN ISO 24342 2019-03	Resilient floor coverings - Determination of dimensional stability and curling after exposure to heat
DIN EN ISO 24343-1 2012-04	Resilient floor coverings - Determination of overall thickness
DIN EN ISO 24346 2012-04	Textile floor coverings - Determination of resistance to damage at cut edges using the modified Vettermann drum test

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DIN EN ISO 10833 2019-09	Resilient and textile floor-coverings - Determination of side length, edge straightness and squareness of tiles
DIN EN ISO 4918 2021-06	Resilient, textile and laminate floor coverings - Castor chair test
DIN EN 984 2002-04	Textile floor coverings - Determination of the mass per unit area of the use surface of needed floor coverings
DIN EN 985 2001-12	Textile floor coverings - Castor chair test (Tests A-C)
DIN EN 986 2006-03	Textile floor coverings - Tiles - Determination of dimensional changes due to the effects of varied water and heat conditions and distortion out of plane
DIN EN 994 2012-03	Textile floor coverings - Determination of the side length, squareness and straightness of tiles <i>(withdrawn standard – - replaced by DIN EN ISO 24342:2019-03)</i>
DIN EN 1269 2020-01	Textile floor coverings - Assessment of impregnations in needed floor coverings by means of a soiling test
DIN EN 1471 1996-12 + Amendment 1 2003-06	Textile floor coverings - Assessment of changes in appearance <i>(withdrawn standard – - replaced by DIN EN ISO 9405:2015-02)</i>
DIN EN 1814 2005-11	Textile floor coverings - Determination of resistance to damage at cut edges using the modified Vettermann drum test <i>(withdrawn standard – replaced by DIN EN ISO 10833:2019-09 )</i>
DIN EN 13893 2003-02	Resilient, laminate and textile floor coverings - Measurement of dynamic coefficient of friction on dry floor surfaces

**1.3 Electrostatic tests**

ISO 6356 2012	Textile and laminate floor coverings - Assessment of static electrical propensity - Walking test
ISO 10965 2011	Textile floor coverings - Determination of electrical resistance

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- DIN EN 1081  
2021-01                      Resilient, laminate and modular multilayer floor coverings -  
Determination of the electrical resistance
- DIN EN 1815  
2016-12                      Resilient and laminate floor coverings - Assessment of static electrical  
propensity

**1.4                      Colour fastness tests**

- DIN EN ISO 105-B02  
2014-11                      Textiles - Tests for colour fastness - Part B02: Colour fastness to  
artificial light: Xenon arc fading lamp test  
(here only: *Method 1 - 3*)
- DIN EN ISO 105-E01  
2013-06                      Textiles - Tests for colour fastness - Part E01: Colour fastness to water
- DIN EN ISO 105-X12  
2016-11                      Textiles - Tests for colour fastness - Part X12: Colour fastness to  
rubbing

**2                      Determination (sampling and analysis) of organic air constituents in indoor  
measurements and test chamber tests**

Type of test	Parameter	Measuring range	Testing methods (characteristic)
Emissions VOC by means of GC-MS and HPLC-system	Toluene equivalent concentration	Substance specific and toluene equivalent	DIN ISO 16000-3:2013-01 DIN ISO 16000-6:2012-11 DIN EN ISO 16000-9:2008-04 DIN EN ISO 16017-1:2001-10 DIN EN 16516:2020-10
	Substance-specific concentration		
	TVOC		
	Total SVOC		
	R-value		
	Total VOC without NIK value		
	Total carcinogens, Formaldehyde		
Total VVOC			

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DIN EN ISO 16000-11 2006-06	Indoor air - Part 11: Determination of the emission of volatile organic compounds from building products and furnishing - Sampling, storage of samples and preparation of test specimens
DIN ISO 16000-28 2012-12	Indoor air - Part 28: Determination of odour emissions from building products using test chambers <i>(withdrawn standard)</i>
ISO 7150-1 1984-06	Water quality; Determination of ammonium; Part 1 : Manual spectrometric method <i>Here: Application for the determination of ammonium nitrogen on sample solutions according to DIN EN 16516:2020-10 taken from the test chambers air.</i>

**3 Acoustic investigations on building products and components (building acoustics) \***

Type of test	Measure/ test parameter	Measuring range	Testing methods <i>(characteristic)</i>
Acoustical absorption	Sound pressure level over time	10 dB – 137 dB (50 Hz – 5000 Hz)	DIN EN ISO 354; ASTM C 423; DIN EN ISO 11654
Impact sound insulation		10 dB – 137 dB (50 Hz – 5000 Hz)	DIN EN ISO 10140-3; DIN EN ISO 717-2
Airborne sound insulation		10 dB – 137 dB (50 Hz – 5000 Hz)	DIN EN ISO 10140-2; DIN EN ISO 717-1
Walking sound		10 dB – 137 dB (50 Hz – 5000 Hz)	DIN EN 16205

**4 Thermal investigations on construction products and components \***

Type of test	Measure/ test parameter	Measuring range	Testing methods <i>(characteristic)</i>
Thermal resistance	Heat output	0,1 m <sup>2</sup> K/W (0,02 m <sup>2</sup> K/W) - 0,5 m <sup>2</sup> K/W	DIN EN ISO 12664
		0,5 m <sup>2</sup> K/W – 7,5 m <sup>2</sup> K/W	DIN EN ISO 12667

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**5 Testing of construction products (system 3 of assessment and verification of constancy of performance) 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 <sup>1)</sup>	Technical specification
<b>1997/808/EC</b> Floorings	3	<b>EN 13813:2002</b> Screed material and floor screeds - Screed materials - Properties and requirements
		<b>EN 14041:2004+AC:2006</b> Resilient, textile and laminate floor coverings - Essential characteristics
		<b>EN 14904:2006</b> Surfaces for sports areas - Indoor surfaces for multi-sports use - Specification
		<b>EN 14342:2013</b> Wood flooring and parquet — Characteristics, evaluation of conformity and marking
<b>1998/437/EC</b> Internal and external wall and ceiling finishes	3	<b>EN 15102:2007+A1:2011</b> Decorative wallcoverings - Roll and panel form

<sup>1)</sup> System of assessment and verification of consistency 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.*

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



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

**6.1 Reaction to fire**

EN ISO 9239-1  
2010 Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source

EN ISO 11925-2  
2010 Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test

**in conjunction with:**

*EN 13501-1  
2019*

*Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests*

**6.2 Acoustic performance**

EN ISO 10140-1  
2021 Acoustics - Laboratory measurement of sound insulation of building elements - Part 1: Application rules for specific products

EN ISO 10140-3  
2010+A1:2015 Acoustics - Laboratory measurement of sound insulation of building elements - Part 3: Measurement of impact sound insulation

EN ISO 354  
2003 Acoustics - Measurement of sound absorption in a reverberation room

**6.3 Emission of dangerous substances**

EN 16516  
2017+A1 2020 Construction products: Assessment of release of dangerous substances - Determination of emissions into indoor air

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

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**Abbreviation used:**

ASTM	American Society for Testing and Materials
CEN	European Committee for Standardization
DIN	German Institute for Standardisation
EC	European Commission
EN	European Standard
ISO	International Organization for Standardisation

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