

Deutsche Akkreditierungsstelle

Annex to the Partial Accreditation Certificate D-PL-20357-01-01 according to DIN EN ISO/IEC 17025:2018

Valid from: 05.04.2024

Date of issue: 05.04.2024

This annex is a part of the accreditation certificate D-PL-20357-01-00.

Holder of partial accreditation certificate:

**Brandhaus Rhein Main GmbH & Co. KG
Am Holzweg 6, 65510 Hünstetten-Görsroth**

with the location

**Brandhaus Rhein Main GmbH & Co. KG
Am Holzweg 6, 65510 Hünstetten-Görsroth**

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 they conform to the principles of DIN EN ISO 9001.

Fire behaviour of building materials and structural elements, materials, textiles, plastics, furniture and construction products (incl. combustability, flammability, flame propagation, melting behaviour and heat development);

Fire behaviour and preventive fire protection of building materials and components in railway vehicles, motor vehicles and ships

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.

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

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

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

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1 Testing of fire behaviour of building materials and structural elements, materials, textiles, plastics, furniture and construction products (incl. combustability, flammability, flame propagation, melting behaviour and heat development)

DIN EN ISO 4589-2 2017-11	Plastics - Determination of burning behaviour by oxygen index - Part 2: Ambient-temperature test
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 597-1 2016-03	Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 1: Ignition source smouldering cigarette
DIN EN 597-2 2016-03	Furniture - Assessment of the ignitability of mattresses and upholstered bed bases - Part 2: Ignition source: match flame equivalent
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 - B2-test in small fire cabinet (edge, surface)
DIN 53438-2 1984-06	Testing of combustible materials; response to ignition by a small flame; edge ignition

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DIN 53438-3 1984-06	Testing of combustible materials; response to ignition by a small flame; surface ignition
DIN 54341 1988-01	Testing of seats in railways for public traffic; determination of burning behaviour with a paper pillow ignition source <i>(withdrawn standard)</i>
DIN 66084 2021-02	Classification of burning behaviour of upholstered compounds
	DIN EN ISO 11925-2 in conjunction with:
	<i>DIN EN 13501-1 2019-05</i>
	<i>Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests</i>

2 Fire behaviour and preventive fire protection of building materials and components

2.1 Railway vehicles

ISO 5658-2 2006-09 + AMD 1 2011-11	Reaction to fire tests - Spread of flame - Part 2: Lateral spread on building and transport products in vertical configuration
ISO 5660-1 2015-03 + AMD 1 2019-08	Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 1: Heat release rate (cone calorimeter method) and smoke production rate (dynamic measurement)
DIN EN ISO 5659-2 2017-11	Plastics - Smoke generation - Part 2: Determination of optical density by a single-chamber test
DIN EN 45545-2 2016-02	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components - Appendix C – Test methods for the determination of toxic gases of components for rail vehicles (flue gas components – FTIR) <i>(withdrawn standard)</i>
DIN EN 17084 2020-10	Railway applications - Fire protection on railway vehicles - Toxicity test of materials and components <u>here</u> : section 5 - Procedure 1 – Smoke chamber

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in conjunction with:

*DIN EN 45545-2
2016-02*

*Railway applications - Fire protection on
railway vehicles - Part 2: Requirements for
fire behaviour of materials and components
(withdrawn standard)*

*DIN EN 45545-2
2020-10*

*Railway applications - Fire protection on
railway vehicles - Part 2: Requirements for
fire behaviour of materials and components*

2.2 Motor vehicles

DIN 75200 1980-09	Determination of burning behaviour of interior materials in motor vehicles
ECE-R 118.04 Appendix 6 2021-09	Test to determine the horizontal burning rate of materials
ECE-R 118.04 Appendix 7 2021-09	Test to determine the melting behaviour of materials
ECE-R 118.04 Appendix 8 2021-09	Test to determine the vertical burning rate of materials
ECE-R 118.04 Appendix 9 2021-09	Test to determine the capability of materials to repel fuel or lubricant
ISO 3795 1989-10	Road vehicles, and tractors and machinery for agriculture and forestry - Determination of burning behaviour of interior materials
CMVSS 302 2014-12	Flammability of Interior Materials
FMVSS 302 2017-10	Test to determine the horizontal burning rate of materials
RL EG 95/28 Appendix IV 1995-10	Test to determine the horizontal burning rate of materials
RL EG 95/28 Appendix V 1995-10	Test to determine the melting behaviour of materials
RL EG 95/28 Appendix VI 1995-10	Test to determine the vertical burning rate of materials

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2.3 Ships

IMO FTP Code 2010 Part 2 2012-09	Material testing on smoke density and toxicity
IMO FTP Code 2010 Part 5 2012-09	Fire tests for surface flammability for linings, coatings and floor covers
IMO FTP Code 2010 Part 7 2012-09	Fire test for vertically supported textiles and films
IMO FTP Code 2010 Part 8 2012-09	Fire tests for upholstered furniture
IMO FTP Code 2010 Part 9 2012-09	Fire tests for bedding components

Abbreviations used:

AMD	Amendment
CMVSS	Canada Motor Vehicle Safety Standard
DIN	Deutsches Institut für Normung e.V. (German Institute for Standardization)
ECE	Economic Commission for Europe
EN	European Standard
FMVSS	Federal Motor Vehicles Safety Standard
FTP	Fire Test Procedures
IMO	International Maritime Organization
ISO	International Organization for Standardization

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