

# Deutsche Akkreditierungsstelle GmbH

## Annex to the Accreditation Certificate D-PL-20357-01-00 according to DIN EN ISO/IEC 17025:2018

Valid from: 25.02.2021

Date of issue: 25.02.2021

Holder of certificate:

**Brandhaus Rhein-Main GmbH & Co. KG**  
**Industriepark Griesheim, Gebäude 3211**  
**Stroofstraße 27, 65933 Frankfurt**

Tests in the fields:

**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. 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>*

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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
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 2003-07	Classification of burning behaviour of upholstered compounds
DIN 66084 2021-02	Classification of burning behaviour of upholstered compounds

**chapter1 in conjunction with:**

*DIN EN 13501-1  
2019-05*

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

**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 5659-2  
2012-12

Plastics - Smoke generation - Part 2: Determination of optical density by a single-chamber test

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 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)  
*(withdrawn standard)*

DIN EN 17084  
2020-10

Railway applications - Fire protection on railway vehicles - Toxicity test of materials and components

**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*

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**2.2 Motor vehicles**

DIN 75200 1980-09	Determination of burning behaviour of interior materials in motor vehicles
ECE 118-02 Appendix 6 2018-10	Test to determine the horizontal burning rate of materials
ECE 118-02 Appendix 7 2018-10	Test to determine the melting behaviour of materials
ECE 118-02 Appendix 8 2018-10	Test to determine the vertical burning rate of materials
ECE 118-02 Appendix 9 2018-10	Test to determine the capability of materials to repel fuel or lubricant
FMVSS 302 1991-10	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

**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

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IMO FTP Code 2010                      Fire tests for upholstered furniture  
Part 8  
2012-09

IMO FTP Code 2010                      Fire tests for bedding components  
Part 9  
2012-09

**Abbreviations used:**

AMD	Amendment
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
RL	Guideline (Richtlinie)