

Deutsche Akkreditierungsstelle GmbH

Annex to the Accreditation Certificate D-PL-11035-03-00 according to DIN EN ISO/IEC 17025:2005

Valid from: 24.04.2020

Date of issue: 24.04.2020

Holder of certificate:

DMT GmbH & Co. KG
Prüfstelle für Brandschutz

at the locations:

Tremoniastraße 13, 44137 Dortmund
Hermann-Kemper-Straße 12a, 49762 Lathen

Tests in the fields:

Burning behavior of building materials and elements in mining (conveyor goodness), of petroleum and related products, of roofings, building materials, materials and components (incl. plastics) of rail vehicle construction (national and European), of plastics, furniture and components in shipbuilding according to IMO, of interior systems in automotive engineering, of personal protective equipment (PPE), of plastics, textiles and combustible materials, of mattresses and upholstered furnitures; fire resistance tests and continuous function tests on components, windows and doors and facade constructions; fire resistance tests on fire protection closures in rail vehicle constructions and components in shipbuilding; mechanical tests on gates, doors and smoke barriers; fire protection testing of cable systems with functional integrity; tests of battery systems on resistance against exposure to fire;

Tests on fire behavior of construction products, that do not require a declaration of a relevant harmonized technical specification (number 3, annex V, (EU) No. 305/2011)

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

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

Abbreviations used: see last page

*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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The tests are performed at the respectively marked sites.

Location of the laboratory Dortmund D;

Location of the laboratory Lathen L

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1 Site Dortmund (D)

1.1 Ignitability

DIN EN ISO 12952-1 2011-01	Textiles - Assessment of the ignitability of bedding items - Part 1: Ignition source: smouldering cigarette
DIN EN ISO 12952-2 2011-01	Textiles - Assessment of the ignitability of bedding items - Part 2: Ignition source: match-flame equivalent
DIN EN ISO 20823 2003-10 EN ISO 20823 2003 ISO 20823 2003-08	Petroleum and related products - Determination of the flammability characteristics of fluids in contact with hot surfaces – Manifold ignition 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 EN 1554 2012-10 EN 1554 2012	Conveyor belts - Drum friction testing
AS 1334.11 1988	Methods of testing conveyor and elevator belting - Determination of ignitability and maximum surface temperature of belting subjected to friction

1.2 Reaction to fire

ISO 3795 1989-10	Road vehicles, and tractors and machinery for agriculture and forestry - Determination of burning behaviour of interior materials
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<p>ISO 5658-2 2006-09 + AMD 1 2011-11</p>	<p>Reaction to fire tests - Spread of flame - Part 2: Lateral spread on building and transport products in vertical configuration</p>
<p>ISO 6722 2006-08</p>	<p>Road vehicles - 60 V and 600 v single-core cables - Dimensions, test methods and requirements section 12 Resistance to flame propagation <i>(withdrawn standard)</i></p>
<p>ISO 6722-1 2011-10</p>	<p>Road vehicles - 60 V and 600 V single-core cables - Part 2: Dimensions, test methods and requirements for copper conductor cables section 5.22 Resistance to flame propagation</p>
<p>ISO 6722-2 2013-12</p>	<p>Road vehicles - 60 V and 600 V single-core cables - Part 2: Dimensions, test methods and requirements for aluminium conductor cables section 5.22 Resistance to flame propagation</p>
<p>ISO 9705-1 2016-02</p>	<p>Reaction to fire tests - Room corner test for wall and ceiling lining products - Part 1: Test method for a small room configuration</p>
<p>ISO 14572 2011-10</p>	<p>Road vehicles - Round, sheathed, 60 V and 600 V screened and unscreened single- or multi-core cables – Test methods and requirements for basic- and high-performance cables section 5.21 Resistance to flame propagation</p>
<p>DIN EN 16989 2018-08</p>	<p>Railway applications - Fire protection on railway vehicles - Fire behaviour test for a complete seat</p>
<p>DIN EN ISO 340 2013-10 EN ISO 340 2013 ISO 340 2013-04</p>	<p>Conveyor belts - Laboratory scale flammability characteristics - Requirements and test method</p>
<p>DIN EN ISO 6941 2004-05</p>	<p>Textile fabrics - Burning behaviour - Determination of ease of ignition of vertically oriented specimens</p>
<p>DIN EN ISO 9239-1 2010-11</p>	<p>Reaction to fire tests for floorings - Part 1: Determination of the burning behaviour using a radiant heat source</p>

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DIN EN ISO 20238 2019-05	Conveyor belts - Drum friction testing
ISO 15029-2 2018-04	Petroleum and related products - Determination of spray ignition characteristics of fire-resistant fluids - Part 2: Spray test - Stabilised flame heat release spray method
DIN EN 12881-1 2015-10 EN 12881-1 2014	Conveyor belts - Fire simulation flammability testing - Part 1: Propane burner tests
DIN EN 12881-2 2009-10 EN 12881-2 2008	Conveyor belts - Fire simulation flammability testing - Part 2: Large scale fire test
DIN EN 13823 2015-02	Reaction to fire tests for building products - Building products excluding floorings exposed to the thermal attack by a single burning item
DIN EN 16989 2018-08	Railway applications - Fire protection on railway vehicles - Fire behavior test for a complete seat
DIN EN 45545-2 2016-02	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components
DIN EN 60695-11 VDE 0471-11-10 2014-10	Fire hazard testing - Part 11-10: Test flames - 50 W horizontal and vertical flame test methods
DIN 4102-1 1998-05	Fire behaviour of building materials and building components - Part 1: Building materials; concepts, requirements and tests
DIN 4102-15 1990-05	Fire behaviour of building materials and elements Part 15: "Brandschacht" section 7 – Setting conditions and "Brandschacht" tests
DIN 4102-16 2015-09	Fire behaviour of building materials and building components - Part 16: "Brandschacht" tests
DIN 22118 1991-08	Conveyor belts with textile plies for use in coal mining; fire testing (<i>withdrawn standard</i>)

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DIN 53438-1 1984-06	Testing of combustible materials; response to ignition by a small flame; general data
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
DIN 54837 2007-12	Testing of materials, small components and component sections for rail vehicles - Determination of burning behaviour using a gas burner (<i>withdrawn standard</i>)
DIN 5510-2 2009-05	Preventive fire protection in railway vehicles - Part 2: Fire behaviour and fire side effects of materials and parts - Classification, requirements and test methods (Annexes A, B, C and D, except D.3) (<i>withdrawn standard</i>)
DIN 75200 1980-09	Determination of burning behaviour of interior materials in motor vehicles
DIN CEN/TS 45545-2 2009-07	Railway applications - Fire protection on railway vehicles - Part 2: Requirements for fire behaviour of materials and components (<i>withdrawn standard</i>)
EU Directive 95/28/EG 1995-10	Directive 95/28/EG of the European Parliament and of the council of 24 October 1995 relating to the burning behavior of materials used in the interior construction of certain categories of motor vehicle, here: Annex IV Test to determine the horizontal burning rate of materials Annex VI Test to determine the vertical burning rate of materials
ECE-R 118 - Rev. 1 / UN Regulation No. 118 - Rev. 1 2012-07	Uniform technical prescriptions concerning the burning behavior and/or the capability to repel fuel or lubricant of materials used in the construction of certain categories of motor vehicles

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IMO 2010 FTP Code Part 5 /IMO-Resolution MSC. 307(88) 2010-12	Test for surface flammability (Test for surface materials and primary deck coverings)
IMO 2010 FTP Code Part 7 /IMO-Resolution MSC. 307(88) 2010-12	Test for vertically supported textiles and films
IMO 2010 FTP Code Part 8 /IMO-Resolution MSC. 307(88) 2010-12	Test for upholstered furniture
IMO 2010 FTP Code Part 9 /IMO-Resolution MSC. 307(88) 2010-12	Test for bedding components
IMO 2010 FTP Code Part 10, Appendix 1 /IMO-Resolution MSC.307(88) 2010-12	Testing for fire-restricting materials for high-speed craft Appendix 1 – Brandp – Full-scale room test for surface materials on bulkheads, wall and ceiling linings, including their supporting structure, of high-speed craft
AS 1334.10 1994	Methods of testing conveyor and elevator belting - Determination of ignitability and flame propagation characteristics of conveyor belting
AS 1334.12 1996-11	Methods of testing conveyor and elevator belting - Determination of combustion propagation characteristics of conveyor belting
AS 4606 2012	Grade S fire resistant and antistatic requirements for conveyor belting and conveyor accessories
FMVSS 302 2014-01	Standard Nor. 302; Flammability of interior material
Technical Standard Doc. No. 302 CMVSS 302 2007	Flammability of interior material

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1.3 Flame persistence

DIN EN ISO 14935
1998-1
EN ISO 14935
1998
ISO 14935
1998-05

Petroleum and related products - Determination of wick flame persistence of fire-resistant fluids

DIN EN ISO 15029-1
2002-10
EN ISO 15029-1
1999
ISO 15029-1
1999-12

Petroleum and related products - Determination of spray ignition characteristics of fire-resistant fluids - Part 1: Spray flame persistence; Hollow-cone nozzle method

1.4 Toxicity

E DIN EN 17084
2017-02

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

IMO 2010 FTP Code
Part 2
IMO-Resolution
MSC. 307(88)
2010-12

Smoke and Toxicity test

1.5 Oxygen index

DIN EN ISO 4589-2
2017-08

Plastics - Determination of burning behaviour by oxygen index - Part 2: Ambient-temperature test

DIN 22117
1988-02

Conveyor belts for coalmining; determination of the oxygen index

1.6 Smoke development behaviour

DIN EN ISO 5659-2
2017-11

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

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1.7 Heat release

DIN EN ISO 1716 2018-10	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)
ISO 5660-1 2015-03	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)
ISO 5660-2 2002-12	Reaction-to-fire tests - Heat release, smoke production and mass loss rate - Part 2: Smoke production rate (dynamic measurement) <i>(withdrawn standard)</i>
IMO 2010 FTP Code - Part 10, Appendix 2 / IMO-Resolution MSC. 307(88) 2010-12	Fire Test Procedures for Heat Release, Smoke Emission and Mass Loss Rate for Materials used for furniture and other Components of High-Speed Craft

1.8 Non-combustibility

IMO 2010 FTP Code Part 1 /IMO-Resolution MSC. 307(88) 2010-12	Non-combustibility test
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1.9 Fire-resistance

ISO 834-1 1999-09 AND 1 2012-01	Fire-resistance tests - Elements of building construction - Part 1: General requirements section 9 – testing
EN 1363-1 2012	Fire resistance tests - Part 1: General Requirements
EN 1363-2 1999	Fire resistance tests - Part 2: Alternative and additional procedures

EN 1363-1 and EN 1363-2 in conjunction with:

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	<i>DIN EN 13501-2 2016-12</i>	<i>Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services</i>
DIN EN 1366-11 2018-07	Fire resistance tests for service installations - Part 11: Fire protective systems for cable systems and associated components	
DIN EN 45545-3 2013-08	Railway applications - Fire protection on railway vehicles - Part 3: Fire resistance requirements for fire barriers	
DIN CEN/TS 45545-3 2009-01	Railway applications - Fire protection on railway vehicles - Part 3: Fire resistance requirements for fire barriers	
DIN 4102-8 2003-10	Fire behaviour of building materials and components - Part 8: Small scale test furnace	
IMO 2010 FTP Code Part 3 /IMO-Resolution MSC. 307(88) 2010-12	Test for „A“, „B“ and „F“ class divisions	
IMO FTP Code Part 11 /IMO-Resolution MSC. 307(88) 2010-12	Test for fire-resisting divisions of high-speed craft Except for: Load bearing fire-resisting divisions	

1.10 Circuit integrity maintenance of electric cable systems

DIN 4102-12 1998-11	Fire behaviour of building materials and building components - Part 12: Circuit integrity maintenance of electric cable systems - requirements and testing
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1.11 Fire Behaviour of Building Materials and Building Components

DIN 4102-2 1977-09	Fire behaviour of Building Materials and Building Components - Building Components; Definitions, Requirements and Tests
DIN 4102-7 1998-07	Fire behaviour of building materials and building components - Part 7: Roofing; definitions, requirements and testing

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DIN V 4102-23
2009-08

Fire behaviour of building materials and building components -
Part 23: Roofs - Application rules for test results for roofs tested to *DIN V ENV 1187 (here: test method 1), and DIN 4102-7 (withdrawn standard)*

DIN SPEC 4102-23
2018-07

Fire behaviour of building materials and building components -
Part 23: Roofs - Application rules for test results for roofs tested to DIN CEN/TS 1187, test method 1, and DIN 4102-7

1.12 Fire resistance of battery systems

ECE-R 100 - Rev. 2 /
UN Regulation No. 100 -
Rev. 2
2013-07

Uniform provisions concerning the approval of vehicles with regard to specific requirements for the electric power train - Annex 8E Fire resistance
Annex 8E

1.13 Special tests on protective equipment

DIN EN 137
2007-01

Respiratory protective devices - Self-contained open-circuit compressed air breathing apparatus with full face mask - Requirements, testing, marking
(here: *sections 6.11 and 7.4.13*)

1.14 Electrical resistance

DIN EN ISO 284
2013-04
EN ISO 284
2012

Conveyor belts - Electrical conductivity - Specification and test method

AS 1334.9
1982

Methods of testing conveyor and elevator belting Determination of electrical resistance of conveyor belting

1.15 Spontaneous ignition behaviour

DIN EN 15188
2007-11
EN 15188
2007

Determination of the spontaneous ignition behaviour of dust accumulations

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2 Site Lathen (L)

2.1 Fire resistance

EN 1363-1
2012 Fire resistance tests - Part 1: General Requirements

EN 1363-2
1999 Fire resistance tests - Part 2: Alternative and additional procedures

EN 1363-1 an EN 1363-2 in conjunction with:

*DIN EN 13501-2
2016-12 Fire classification of construction
products and building elements -
Part 2: Classification using data
from fire resistance tests,
excluding ventilation services*

DIN EN 45545-3
2013-08 Railway applications - Fire protection on railway vehicles - Part 3: Fire
resistance requirements for fire barriers

DIN 4102-2
1977-09 Fire Behaviour of Building Materials and Building Components -
Building Components; Definitions, Requirements and Tests

AS 1530.4
2014 Methods for fire tests on building materials, components and
structures, Fire-resistance tests for elements of construction
(except sections 4, 5, 6, 9, 10, 11, 12)

BS 476-20
1987 Fire tests on building materials and structures. Method for
determination of the fire resistance of elements of construction
(general principles)

BS 476-22
1987 Fire tests on building materials and structures. Methods for
determination of the fire resistance of non-loadbearing elements of
construction

UIC 564-2
Section 4
1991-01 Regulations relating to fire protection and firefighting measures in
passenger carrying railway vehicles or assimilated vehicles used on
international services - Section 4: Fire prevention - Special regulations

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IMO 2010 FTP Code
Part 3 /IMO-Resolution
MSC. 307(88)
2010-12

Test for „A“, „B“ and „F“ class divisions

IMO 2010 FTP Code
Part 4 /IMO-Resolution
MSC. 307(88)
2010-12

Test for fire door control systems

IMO 2010FTP Code
Part 11 /IMO-Resolution
MSC. 307(88)
2010-12

Test for fire-resisting divisions of high-speed craft
(Except for: *Load bearing fire-resisting divisions*)

2.2 Smoke control characteristics

DIN 18095-2
1991-03

Smoke control doors - type testing for durability and leakage

DIN 18095-3
1999-06

Smoke control shutters - Part 3: Application of test results, here:

5.2 Test of density

5.2.2.1 operating test

5.2.2.2 determination of length of gap, clear opening area
and gaps between solid parts

5.2.2.4 measurement of deformation

EAD 020029-00-1102

Internal pedestrian fire resisting and/or smoke control single or double
leaf doorsets made of steel, here:

2.2.1 Reaction to fire components

2.2.2 Resistance to fire

2.2.3 Smoke control

2.2.4 Self-closing

2.2.5 Ability to release

2.2.6 Durability of ability to release

2.2.7 Durability of self-closing against degradation (cycling
testing)

2.2.8 Durability of self-closing against ageing (corrosion)

Annex A Extended application fire resistance

Annex B Extended application smoke control

Annex C Extended application permanent function

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EAD 350022-01-1107 Kit for closure system for conveyor systems, here:
 2.2.1 Resistance to fire
 2.2.2 Mechanical durability of self-closing systems
 2.2.3 Reaction to fire
 Annex A Deviations and additions concerning fire resistance test
 Annex B Additional provisions for testing mechanical durability of self-closing

in conjunction with:

*DIN EN 13501-2
 2016-12*

Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services

2.3 Durability of performance and mechanical aspects

DIN EN 1191 Windows and doors - Resistance to repeated opening and closing -
 2013-04 Test method
 EN 1191
 2012

DIN EN 12605 Industrial, commercial and garage doors and gates - Mechanical
 2000-08 aspects - Test methods
 EN 12605 5.1.1 Evidence of operability of the door
 2000 5.1.2 Evidence of activities against unintentional disengagement or derailment
 5.1.4 Evidence of activities against uncontrolled movements of vertically operating doors
 5.1.5 Evidence of forces required for manual operation
 5.1.6 Evidence of force and velocity for self-closing doors
 5.2 Test of durability
(withdrawn standard)

DIN 4102-18 Fire behaviour of building materials and components; fire barriers,
 1991-03 verification of automatic closure (continuous performance test)

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ETAG 003
2013-07

Guideline for European Technical Approval for internal partition kits
for use as non-loadbearing walls, here:

- 5.2.1 Reaction to fire
- 5.2.2 Resistance to fire

in conjunction with:

DIN EN 13501-2
2016-12

*Fire classification of construction
products and building elements - Part
2: Classification using data from fire
resistance tests, excluding ventilation
services*

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3 Tests on burning behavior of construction products, that do not require a declaration of a relevant harmonized technical specification (number 3, annex V, (EU) No. 305/2011)

Reaction to fire

EN ISO 1182 2010	Reaction to fire tests for products - Non-combustibility test	D
EN ISO 1716 2018	Reaction to fire tests for products - Determination of the gross heat of combustion (calorific value)	D
EN ISO 11925-2 2010	Reaction to fire tests - Ignitability of products subjected to direct impingement of flame - Part 2: Single-flame source test	D

in conjunction with

<i>EN 13501-1 2018</i>	<i>Fire classification of construction products and building elements - Part 1: Classification using data from reaction to fire tests</i>
<i>EN 13501-6 2018</i>	<i>Fire classification of construction products and building elements - Part 6: Classification using data from reaction to fire tests on electric cables</i>

Resistance to fire

EN 1364-1 2015	Fire resistance tests for non-loadbearing elements - Part 1: Walls	D, L
EN 1364-2 2018	Fire resistance tests on non-loadbearing elements - Part 2: Ceilings	D
EN 1364-3 2014	Fire resistance tests for non-loadbearing elements - Part 3: Curtain walling - Full configuration (complete assembly)	L
EN 1364-4 2014	Fire resistance tests for non-loadbearing elements - Part 4: Curtain walling - Part configuration	L
EN 1366-7 2004	Fire resistance tests for service installations - Part 7: Conveyor systems and their closures	L

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EN 1634-1 2014+ A1: 2018	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 1: Fire resistance test for door and shutter assemblies and openable windows	L
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EN 1634-3 2004	Fire resistance and smoke control tests for door and shutter assemblies, openable windows and elements of building hardware - Part 3: Smoke control test for door and shutter assemblies	L
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in conjunction with:

<i>EN 13501-2 2016</i>	<i>Fire classification of construction products and building elements - Part 2: Classification using data from fire resistance tests, excluding ventilation services</i>
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External fire performance

CEN/TS 1187 2012-01	Test methods for external fire exposure to roofs (here: test method 1)	D
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in conjunction with:

<i>EN 13501-5 2016</i>	<i>Fire classification of construction products and building elements - Part 5: Classification using data from external fire exposure to roofs tests</i>
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The requirements for a testing laboratory are be fulfilled according to article 43 of the Construction Products Regulation.

-Translation-

Abbreviations used:

AS	Australian Standard
CMVSS	Canada Transport - Motor Vehicle Safety Standard
IMO FTP	International Maritime Organization - Fire Test Procedures
FMVSS	Federal Motor Vehicle Safety Standard
UCI	Union Internationale des Chemins de Fer (International Union of Railways; based in Paris)

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