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Materialprüfungsamt Nordrhein-Westfalen
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Report on the classification of fire behaviour

No. 230010360-3

from 01.02.2016

Client

Ludwig Leitermann GmbH & Co KG Chipboard finishing
Theodor-Heuss-Strasse 5 - 7

64732 Bad König
GERMANY

Order

Classification of fire behaviour according to DIN EN 13501-1

Order date:

25.09.2015

Designation of the construction product to be classified:

Composite element (VBE), version 001 (DBS coating)

This report determines the classification of the above-mentioned construction product in accordance with the procedure specified in DIN EN 13501-1 "Fire classification of construction products and building elements - Part 1: Classification using the results of reaction to fire tests of construction products; German version EN 13501-1:2007+A1:2009", edition 2010.

1. Description of the building product

Chipboard with direct coating on both sides (DBS). Layer thickness of the

coating: approx. 0.1 mm

Core board: SPANO chipboard in accordance with general building authority approval Z- 56.275-3558.

Total thickness: approx. 12.2 mm to approx. 22.2 mm

Surface weight with total thickness approx. 12.2 mm: approx. 9.5 kg/m²
Surface weight with total thickness approx. 22.2 mm: approx. 15.9 kg/m²

Colour of the coating: any

2. Test reports and test results on which the classification is based

2.1 Test reports

Name of the laboratory	Client	Number of the Test report	Test procedure
MPA NRW	Ludwig Leitermann GmbH & Co KG, chipboard finishing Theodor-Heuss-Straße 5 - 7 64732 Bad König GERMANY	230010360-1 from 01.02.2016	**DIN EN 13823**
MPA NRW	Ludwig Leitermann GmbH & Co KG, chipboard finishing Theodor-Heuss-Straße 5 - 7 64732 Bad König GERMANY	230010360-2 from 01.02.2016	**DIN EN ISO 11925-2**

2.2 Test results

Test procedure	Number of attempts	Parameters	Test results	
			Continuous parameters Mean values	Discrete parameters
DIN EN 13823	3*	FIGRA $_{0.2}$ (W/s)	179,7	–
		FIGRA $_{0.4}$ (W/s)	104.3	–
		THR_{600s} (MJ)	5,9	–
		LFS< Outer edge	–	Yes
		SMOGRA (m^2/s)	14,3	–
		TSP_{600s} (m^2)	115,7	–
		Burning drop (s)	0	–

* A total of 6 test specimens were tested in different variants. For details of the test procedure, see test report.

Test procedure	Number of attempts	Parameters	Test results	
			Continuous parameters Mean values	Discrete parameters
DIN EN ISO 11925-2	24 x K and 8 x F	$F_S \leq 150$ mm	–	Yes
		Burning drop-off	–	No

Note: K= Tested with edge flaming, F= Tested with surface flaming

3. Classification and direct area of application

3.1 Reference

The classification was carried out in accordance with sections 11. and 14.1 of the standard DIN EN 13501-1: 2010.

3.2 Classification

The tested material is classified with regard to its fire behaviour as: **C** The additional classification with regard to smoke development is: **s2**

The additional classification in relation to burning droplets is: **d0**

This gives the fire behaviour classification of the tested material:

Fire behaviour	Smoking development	Burning dripping
C	**s2**	**d0**

i.e. ***C - s2, d0***

3.3 Application area of the product

The classification only applies to the product described in section 1, arranged at a distance of at least 80 mm from the same or other flat products.

4. Restrictions

This classification report does not replace type approval or product certification. Erwitte,

01.02.2016

Dipl.-Ing. Rademacher Head of the test centre

Materialprüfungsamt MPA NRW 34 Nordrhein-Westfalen

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