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Divize CSI - Centrum stavebního inženýrství

Fire Technical Laboratory

**AUTHORIZED
BODY**

**NOTIFIED
BODY**

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH ČSN EN 13501-1:2019

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Product name: Deko FireSafe – E111/FS/MAT HPL
Deko FireSafe Melamin white 0,60 mm +
Gypsum Fibre Board Knauf 18 mm A1

**Classification
report No.:** PK-24-235

Issue number: 1/2

Date of issue: 9th December 2024

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1. DETAILS OF CLASSIFIED PRODUCT

Nature and end use application:

The product *Deko FireSafe – E111/FS/MAT HPL Deko FireSafe Melamin white 0,60 mm + Gypsum Fibre Board Knauf 18 mm A1* is defined as a type of gypsum-fibre board with HPL coating.

Description:

The product *Deko FireSafe – E111/FS/MAT HPL Deko FireSafe Melamin white 0,60 mm + Gypsum Fibre Board Knauf 18 mm A1* is fully described in the test reports in support of the classification listed in clause 2.

2. TEST REPORTS AND TEST RESULTS IN SUPPORT OF THIS CLASSIFICATION

Test reports

Name of laboratory	Name of sponsor	Test report ref. no.	Test method
MPA Desden GmbH	Dekodur GmbH & Co. KG	20151295/02.1	EN ISO 1716
MPA Desden GmbH	Dekodur GmbH & Co. KG	20160322/03 20151295/03.1	EN 13823:2015
ITC, a.s., Divize CSI, AZL 1007.4	DI Dekodur GmbH & Co KG	20/P299-1	ČSN EN 13823+A1

Measured values and results of tests

Test method	Parameter	Number of test	Results	
			Continuous parameter mean (m)	Compliance parameters
EN ISO 1716	PCS (MJ/kg) ⁽¹⁾	3	1,446	≤ 3,0 (A2)
	PCS (MJ/kg) ⁽²⁾		1,100	≤ 3,0 (A2)
	PCS (MJ/kg) ⁽³⁾		2,183	≤ 3,0 (A2)
	PCS (MJ/m ²) ⁽⁴⁾		3,088	≤ 4,0 (A2)
	PCS (MJ/m ²) ⁽⁵⁾		0	≤ 4,0 (A2)
EN 13823:2015 ⁽⁶⁾	FIGRA _{0,2 MJ} (W/s)	8	5	≤ 120 (A2)
	LFS < edge		yes	yes (A2)
	THR _{600 s} (MJ)	8	0,6	≤ 7,5 (A2)
	SMOGRA (m ² /s ²)		7	≤ 30 (s1)
	TSP _{600 s} (m ²)	8	43	≤ 50 (s1)
	Flaming droplets / particles	8	no	no (d0)
ČSN EN 13823+A1 ⁽⁷⁾	FIGRA _{0,2 MJ} (W/s)	1	44,5	≤ 120 (A2)
	LFS < edge		yes	yes (A2)
	THR _{600 s} (MJ)	1	1,9	≤ 7,5 (A2)
	SMOGRA (m ² /s ²)		0	≤ 30 (s1)
	TSP _{600 s} (m ²)	1	16,8	≤ 50 (s1)
	Flaming droplets / particles	1	no	no (d0)

(1): for the product as whole – both-sided coating with HPL 0,6 mm

(2): Gypsumfibre Board Knauf 18 mm A1 – substantial component

- (3): Kernlage "PN20882" – substantial component
 (4): HPL (Melaminharz + Dekorpappier), thickness 0,6 mm – external non substantial component
 (5): adhesive W&W A1 – internal non substantial component
 (6): HPL Dekodur Fire Safe tested on the calcium silicate board and on the gypsum board
 (7): HPL Dekodur Fire Safe tested on the Gypsumfibre Board Knauf 18 mm A1

3. Classification and direct field of application

Reference and direct field of application

This classification has been carried out in accordance with the clause 11.7, 13.9.2. and 13.10.1 of ČSN EN 13501-1:2019.

Classification

The product *Deko FireSafe – E111/FS/MAT HPL Deko FireSafe Melamin white 0,60 mm + Gypsum Fibre Board Knauf 18 mm A1*, in relation to its reaction to fire behaviour is classified:

A2

The additional classification in relation to smoke production is:

s1

The additional classification in relation to flaming droplets/particles is:

d0

The format of the reaction to fire classification for *Deko FireSafe – E111/FS/MAT HPL Deko FireSafe Melamin white 0,60 mm + Gypsum Fibre Board Knauf 18 mm A1* is:

Fire behaviour		Smoke production			Flaming droplets	
A2	-	s	1	,	d	0

Reaction to fire classification: A2-s1, d0

Field of application

This classification is also valid for the following product parameters:

- Total thickness \geq 19 mm
- Maximum thickness of coating HPL Dekodur Fire Safe: 0,6 mm
- Colour of coating: without limitation

This classification is valid for the following end use conditions:

- Product fixed to a supporting metal frame without the use of a substrate, or mechanically fixed to a substrate of reaction to fire class A1 or A2-s1, d0.

4. LIMITATIONS

Restrictions

This classification report is valid, provided that the technical specifications of the product will not be changed.

Warning

This document does not represent type approval or certification of the product.

Prepared:



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Reviewed:



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