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**Divize CSI - Centrum stavebního inženýrství**

**Fire Technical Laboratory**

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

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**Product name:** Deko FireSafe – A341/FS/GLA HPL  
Deko FireSafe Aluminium 0,60 mm +  
Gypsum Fibre Board Knauf 18 mm A1

**Classification  
report No.:** PK-24-236

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## 1. DETAILS OF CLASSIFIED PRODUCT

### Nature and end use application:

The product *Deko FireSafe – A341/FS/GLA HPL Deko FireSafe Aluminium 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 – A341/FS/GLA HPL Deko FireSafe Aluminium 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/P301-1	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) <sup>(1)</sup>	3	1,310	≤ 3,0 (A2)
	PCS (MJ/kg) <sup>(2)</sup>		1,100	≤ 3,0 (A2)
	PCS (MJ/kg) <sup>(3)</sup>		2,183	≤ 3,0 (A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(4)</sup>		0	≤ 4,0 (A2)
	PCS (MJ/m <sup>2</sup> ) <sup>(5)</sup>		0	≤ 4,0 (A2)
EN 13823:2015 <sup>(6)</sup>	FIGRA <sub>0,2 MJ</sub> (W/s)	8	5	≤ 120 (A2)
	LFS < edge		yes	yes (A2)
	THR <sub>600 s</sub> (MJ)	8	0,6	≤ 7,5 (A2)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )		7	≤ 30 (s1)
TSP <sub>600 s</sub> (m <sup>2</sup> )	8	43	≤ 50 (s1)	
Flaming droplets / particles	8	no	no (d0)	
ČSN EN 13823+A1 <sup>(7)</sup>	FIGRA <sub>0,2 MJ</sub> (W/s)	1	0	≤ 120 (A2)
	LFS < edge		yes	yes (A2)
	THR <sub>600 s</sub> (MJ)		0,7	≤ 7,5 (A2)
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	1	0	≤ 30 (s1)
	TSP <sub>600 s</sub> (m <sup>2</sup> )	1	13,3	≤ 50 (s1)
Flaming droplets / particles	1	no	no (d0)	

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

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

(3): Kernlage “PN20882” – substantial component

- (4): Aluminium foil, thickness 0,6 mm – external non substantial component
- (5): adhesive W&W A1 – internal non substantial component
- (6): HPL Dekodur FireSafe tested on the calcium silicate board and on the gypsum board
- (7): HPL Deko FireSafe Aluminium 0,60 mm 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 – A341/FS/GLA HPL Deko FireSafe Aluminium 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 – A341/FS/GLA HPL Deko FireSafe Aluminium 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
- Thickness of coating HPL Dekodur FireSafe Aluminium: without limitation
- 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

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##### 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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