Instytut Techniki Budowlanej
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egzemplarz archiwalny

REACTION TO FIRE CLASSIFICATION REPORT IN ACCORDANCE WITH PN-EN 13501-1+A1:2010

Contract no. 01267/17/Z00NZP

Sponsor:	[redacted]
Prepared by:	**Building Research Institute; 1, Filtrowa str. 00-611 Warszawa, Poland**
Product name:	**Finishing material with trade name SMART STONE for ceilings, internal and external walls**
Classification report No.:	**1267/17/Z00NZP**
Issue number:	**1 (version in English) Copy for ITB**
Date of issue:	**14.07.2017**

This classification report consists of three pages and may only be used or reproduced in its entirety.

1. Introduction

This classification report defines the classification assigned to finishing material with trade names SMART STONE in accordance with the procedures given in PN-EN 13501-1+A1:2010.

2. Details of classified product

2.1 General

The product is defined as finishing material for ceilings, internal and external walls.

2.2 Product description

The product, is described below.

Product description: Finishing material with trade name SMART STONE. Material consist marble powder, quartz sand, white cement, nonwoven material (fiber glass) The thickness of material is 2,5 – 3,5 cm. Surface mass of product 2,5 – 3,5 kg/m^2

3. Test reports & test results in support of classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test report no.	Test method
Fire Testing Laboratory of ITB	[redacted]	LZP01-1267/17/Z00NZP	PN-EN ISO 11925-2:2010
		LZP02-1267/17/Z00NZP	PN-EN 13823+A1:2014

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter – mean (m)	Compliance with parameters
PN-EN ISO 11925-2 Surface and edge on front and rear side of product exposure exposure time 30 s Material with trade name SMART STONE	F_s ≤150 mm	6	(–)	Y
	Flaming Droplets/particles		(–)	N
PN-EN 13823 Material with trade name SMART STONE	$FIGRA_{0,2MJ}$	3	19,9	(–)
	$FIGRA_{0,4MJ}$		19,9	(–)
	LFS < edge		(–)	T
	THR_{600s} [MJ]		0,7	(–)
	SMOGRA [m^2/s^2]		0,7	(–)
	TSP_{600s} [m^2]		39,1	(–)
	Flaming Droplets/particles		(–)	N

(–): do not concern
Y: Yes
N: No

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with PN-EN 13501-1+A1:2010.

4.2 Classification

The products, material SMART STONE described in point 2 this classification report, in relation to its reaction to fire behaviour are classified:

B

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 construction products excluding floorings and linear pipe thermal insulation products is:

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

i.e.: B-s1,d0

Reaction to fire classification: B-s1,d0

4.3 Field of application

This classification is valid for the following product parameters:

- Material SMART STONE described in point 2 this classification report.

This classification is valid for the following substrates, fixing and air gaps:

- substrates with fire classifications A1 and A2,
- without gaps.

5 Limitations

This classification given remains valid as long as:

- test method remains unchanged,
- product standard or technical approval remains unchanged,
- constructional or material modifications do not exceed limits of the field of application defined in 4.3.

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

SIGNED

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APPROVED

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