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Reaction to fire classification report of product Formica Solid Surface, FSS

1 Introduction

This classification report defines the classification assigned to the product Formica Solid Surface, FSS, in accordance with the procedure given in EN 13501-1.

2 Details of classified product

2.1 General

The product Formica Solid Surface, FSS, is defined as a panel product.

2.2 Product description

According to the client:
Panel called "Formica Solid Surface, FSS", consisting of ATH (aluminiumtrihydrate), unsaturated polyester resin, MMA (methylmetacrylate), fumed silica, pigments, hardener, promoter and air release (some patterns). The product has a nominal density of 1780 kg/m³ and a nominal thickness of 12.6 mm.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Test method
SP	Formica Ltd	P701109	EN 13823 EN ISO 11925-2

SP Technical Research Institute of Sweden

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3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance parameter
EN ISO 11925-2				
Edge flame attack		6		
30 s exposure	$F_s \leq 150$ mm		(-)	Yes
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
Surface flame attack				
30 s exposure	$F_s \leq 150$ mm		(-)	Yes
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823				
	$FIGRA_{0,2MJ}$ (W/s)	3	46	(-)
	$FIGRA_{0,4MJ}$ (W/s)		46	(-)
	$LFS < \text{edge}$		(-)	Yes
	THR_{600s} (MJ)		4.5	(-)
	$SMOGRA$, (m^2/s^2)		3	(-)
	TSP_{600s} , (m^2)*		22	(-)
	Flaming droplets/particles		(-)	No flaming droplets/particles

* The smoke measurement procedure according to EN 13823 and GNB-CPD position paper from SH02 - Measurement of Smoke on the SBI - Discrepancy in the output from the two burners - NB-CPD/SH02/07/047 - from the group of notified bodies has been used.

(-) : not applicable

4 Classification and field of application

4.1 Reference and direct field of application

This classification has been carried out in accordance with clause 10 and 13 of EN 13501-1:2002.

4.2 Classification

The product called "Formica Solid Surface, FSS" in relation to its reaction to fire behaviour is classified:

B

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification for construction products excluding floorings is:

Fire Behaviour		Smoke Production				Flaming Droplets	
B	-	s	1	,	d	0	

Reaction to fire classification: *B-s1,d0*

4.3 Field of application:

This classification is valid for the following end use conditions:

Substrates

- Gypsum plasterboard (paper faced) and any end use substrate of Euroclasses A1 or A2 at least 6 mm thick, having a density $\geq 700 \text{ kg/m}^3$.

Fixings

- Adhesive based on silicon, nominal amount 250 g/m^2 .

Joints

- Vertical joints

This classification is also valid for the following product parameters:

Nominal thickness: 12.6 mm.

Nominal density: 1780 kg/m^3 .

The sample was delivered by the client. SP Fire Technology was not involved in the sampling procedure.

5 Limitations

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

**SP Sveriges Tekniska Forskningsinstitut
Fire Technology - Materials Reaction to Fire**


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