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Date Reference 2014-08-27 4P04737-1

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Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product "Formica ColorCore" in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product "Formica ColorCore" is defined as a compact laminate panel. Its classification is valid for linings.

According to the owner of this classification report, this product complies with the European product specification EN 438-7:2005.

2.2 Product description

According to information provided by the client, the product has the following composition:

Product called "Formica ColorCore" consisting of a calcium silicate core (Promarine 600 calcium silicate) with BTS laminate glued on its both sides. The laminate is composed by paper and melamine resin.

The core has a nominal density of 600 kg/m^3 , a nominal area weight of 9 kg/m^2 and a nominal thickness of approximately 12 mm. The laminate has a nominal density of 1450 kg/m³, a nominal area weight of 1.9 kg/m^2 and a nominal thickness of approximately 1.3 mm. The laminates have been produced under high pressure (pressure $> 50 \text{ kg/cm}^2$) and high temperature (temperature $> 120 ^{\circ}\text{C}$).



3 Test reports & test results in support of classification

3.1 Test report

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
SP Fire Research	Formica Limited	4P04737	EN 13823 and
			EN ISO 11925-2

3.2 Test results

Test method	Parameter	Number of tests	Results	sults	
			Continuous parameter mean (m)	Compliance with parameters	
EN ISO 11925-2		20	0.00		
Edge/Surface flame attack**					
30 s exposure	$Fs \le 150 \text{ mm}$		(-)	Compliant	
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper	
EN 13823		3			
	$FIGRA_{0,2MJ}$ (W/s)		153	Compliant	
	$FIGRA_{0,4MJ}$ (W/s)		137	Compliant	
	LFS < edge		(-)	Compliant	
	THR_{600s} , (MJ)		3.7	Compliant	
	$SMOGRA$, (m^2/s^2)		27	Compliant	
	TSP_{600s} , (m ²)		136	Compliant	
	Flaming droplets/particles		(-)	No flaming droplets/particles	

^{**:} as required to the end use application of the product

(-): 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 11 and 15 of EN 13501-1:2007+A1:2009.

4.2 Classification

The product called "Formica Colorcore" in relation to its reaction to fire behaviour is classified:

C

The additional classification in relation to smoke production is:

s2

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

d0

The format of the reaction to fire classification for construction products excluding floorings and linear pipe thermal insulation product is:

Fire Behaviour		Smoke Production		Flaming Droplets		
С	-	s	2	,	d	0

Reaction to fire classification: C-s2,d0

4.3 Field of application:

This classification is valid for the following product parameters:

Nominal thickness of core:12 mm approximately.

Nominal thickness of laminate: 1.3 mm approximately.

This classification is valid for the following end use conditions:

- Mechanically fixed with centre fixings distance up to 800 mm to wood based or all other types of frames (e.g. aluminium, steel frames).
- Vertical joints
- Mounting with a wood frame (or other type of frames e.g aluminium, steel frames) to create a nominal cavity of 30 mm.
- For all greater thickness of the same type of panel.



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 Technical Research Institute of Sweden Fire Research - Fire Dynamics

Performed by

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