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Reaction to fire classification report of “RE-Board”

1. Introduction

This classification report defines the classification assigned to the product called “RE-Board” in accordance with the procedure given in EN 13501-1:2007.

2 Details of classified product

2.1 General

The product is defined as fibre board with surface material of al-foil and thin decorative paper used as wall panel.

2.2 Product description

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

Wall panels called “RE-board”, consisting of the following:

- Core of 15 mm thick corrugated fibreboard.
- Surface material of 80 g paper plus 30 µm al-foil on both sides of core.

The total product has a nominal thickness of 16 mm. The product is produced by Design Force AB in a plant in Norrköping, Sweden.

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	Design Force AB	P802415	EN 13823
SP	Design Force AB	P802415	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 with parameters
EN ISO 11925-2		6		
Edge flame attack				
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
Surface flame attack		6		
30 s exposure	$F_s \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		3		
	$FIGRA_{0,2MJ}$ (W/s)		198	-
	$LFS < \text{edge}$		(-)	Compliant
	THR_{600s} , (MJ)		11.6	-
	$SMOGRA$, (m^2/s^2)		4	-
	TSP_{600s} , (m^2)		28	-
	Flaming droplets/particles		(-)	No flaming droplets/particles

(-) : 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.

4.2 Classification

The product called “RE-board” in relation to its reaction to fire behaviour is classified:

C

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 and linear pipe thermal insulation product is:

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

i.e. A1 to F (as applicable) – s1, 2 or 3 (as applicable), d0, 1 or 2 (as applicable)

Reaction to fire classification: C-s1,d0

4.3 Field of application:

This classification is valid for the following end use conditions:

Mounting

- Freestanding.

This classification is also valid for the following product parameters:

Thickness:

- Nominal total product thickness, 16 mm.
- Nominal al-foil thickness, 30 µm.

Area weight:

- Nominal area weight of decorative paper (surface material) 80 g/m².

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
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