REPORT
issued by an Accredited Testing Laboratory

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Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product Teknos FR Facade in accordance with the procedure given in EN 13501-1:2007.

This classification report replace SP classification report PX18030-2, dated February 15, 2012.

2 Details of classified product

2.1 General

The product, Teknos FR Facade is defined as a facade system consisting of spruce applied with a paint system consisting of a fire retarding primer, Teknosafe 2407 overlaid by a waterborne acrylic industrial system.

2.2 Product description

The product, Teknos FR Facade is fully described below.

According to the client: Facade system called "Teknos FR Facade" consisting of planed wooden panel boards (Spruce) factory spray-painted with 250 g/m^2 (wet) primer with fire retarding agent (Teknosafe 2407) and overlaid by a 60 g/m^2 (wet) waterborne acrylic industrial system (Teknos). The painted product has a nominal thickness of 18 mm.

3 Test reports & test results in support of classification

3.1 Test reports

This classification is based on the test reports listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited Test method
SP	Teknos A/S	PX05884-01	EN ISO 11925-2
SP	Teknos A/S	PX18030	EN 13823

3.2 Test results

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN ISO 11925-2		6		
Edge/Surface flame attack				
30 s exposure	$Fs \leq 150$ mm		(-)	Compliant
Flaming droplets/particles	Ignition of filter paper		(-)	No ignition of filter paper
EN 13823		3		
	$FIGRA_{0,2MJ}$ (W/s)		67	Compliant
	$LFS <$ edge		(-)	Compliant
	THR_{600s}, (MJ)		5.3	Compliant
	$SMOGRA$, (m^2/s^2)		4.7	Compliant
	TSP_{600s}, (m^2)		44	Compliant
	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 "Teknos FR Facade" 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 and linear pipe thermal insulation product is:

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

i.e. ***A1*** *to* ***F*** *(as applicable)* **–** **s*1, 2 or 3*** *(as applicable)*, **d*0, 1 or 2*** *(as applicable)*

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

4.3 Field of application:

This classification is valid for the following product parameters:

Planed wooden panel boards (Spruce).

Nominal thickness: 18 mm.

Paint system consisting of the following layers, applied on spruce.

Primer (Teknosafe 2407): nominal amount, 250 g/m^2 (wet)

Coating (Teknos waterborne acrylic industrial system): nominal amount, 60 g/m^2 (wet)

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 12 mm thick, having a density ≥ 525 kg/m^3.

Fixings

- Mechanically fixed.

Void

- System of wood battens creating a void.

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.

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