

Teknos Norge A/S
Industriveien 28
N-3430 Spikkestad
Norge

Reaction to fire classification report

1 Introduction

This classification report defines the classification assigned to the product “Teknos FR Panel Opaque” in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product “Teknos FR Panel Opaque” is defined as an FR-painted wooden particle board system.

According to the owner of this classification report, this product complies with the European product specification EN 13986.

2.2 Product description

According to the client:

Coated wooden particle board system called “Teknos FR Panel Opaque”, consisting of a core of “Forestia Chipboard”, nominal thickness 12 mm and nominal density 700 kg/m³. The facing of the product is coated with a base FR-paint called “Teknosafe 2457”, nominal area weight of 200 g/m² and a second layer of FR-paint called “Teknosafe 2407”, nominal area weight of 100 g/m². All nominal area weights are wet weights.

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	Accredited test method
SP	Teknos Norge A/S	6P04865	EN 13823 and 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		12		
Edge/Surface flame attack**				
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)		21	Compliant
	$FIGRA_{0,4MJ}$ (W/s)		21	Compliant
	$LFS < \text{edge}$		(-)	Compliant
	THR_{600s} , (MJ)		3	Compliant
	$SMOGRA$, (m^2/s^2)		1	Compliant
	TSP_{600s} , (m^2)		47	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 “Teknos FR Panel Opaque” 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	

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

4.3 Field of application:

This classification is valid for the following product parameters:

Forestia Chipboard:

Nominal thickness: 12 mm.

Nominal density: 700 kg/m³.

FR-Paint Teknosafe 2457:

Nominal area weight: 200 g/m².

FR-Paint Teknosafe 2407:

Nominal area weight: 100 g/m².

This classification is valid for the following end use conditions:

Substrates

- Wood based substrates at least 10 mm thick and any end use substrate of Euroclasses A1 or A2-s1,d0 at least 6 mm thick, having a density $\geq 510 \text{ kg/m}^3$

Fixings

- Mechanically fixed.

Joints

- Horizontal and vertical joints.

The sample was collected by an official from SP Fire Research. It is not known to SP Fire Research if the product received is representative of the mean production characteristics.

5 Limitations

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

SP Technical Research Institute of Sweden
Safety - Fire Research, Fire Dynamics

Performed by

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