

Burnblock ApS
Kongens Nytorv 15
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Danmark

Reaction to fire classification report

1 Introduction

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

2 Details of classified product

2.1 General

The product "Spruce profile" is defined as a solid wood panel. Its classification is valid for the end use as surface lining.

According to the owner of this classification report, this product complies with the European product specification EN 14915.

2.2 Product description

The product, "Spruce profile", is fully described below and in the test report provided in support of classification listed in Clause 3.1.

According to the client:

Wood panel called "Spruce profile", consisting of flame retardant spruce wood. The nominal amount of added flame retardant (Burnblock 11 %) is 35 - 39 kg/m³. The product has a nominal density of 450 kg/m³, a nominal thickness of 21 mm and a nominal width of 120 mm. The fire retardant is applied to the panels in a vacuum-pressure impregnation process.

3 Test reports

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	Burnblock ApS	3P07054-1	EN 13823(SBI)

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3.2 Test results

The protocol on fire testing and classification of GNB-CPD position paper NB-CPD/SH02/12/096 (issued 21 December 2012), from the Group of Notified Bodies for the Construction Products Directive, has been applied in the process of testing. According to section 5.1, testing in accordance with EN ISO 11925-2 was not performed. According to section 5.1.5, test results are applicable to greater thicknesses, but not to lesser.

Test method	Parameter	Number of tests	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN 13823		3		
	<i>FIGRA</i> _{0,2MJ} (W/s)		67	Compliant
	<i>FIGRA</i> _{0,4MJ} (W/s)		50	Compliant
	<i>LFS</i> < edge		(-)	Compliant
	<i>THR</i> _{600s} (MJ)		4.2	Compliant
	<i>SMOGRA</i> , (m ² /s ²)		1.3	Compliant
	<i>TSP</i> _{600s} (m ²)		45	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+A1:2009.

4.2 Classification

The product called “Spruce profile” in relation to its reaction to fire behaviour are 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:

Wood species: Spruce.

Nominal thickness: ≥ 21 mm.

Nominal density: 450 kg/m^3 .

Fire retardant: Burnblock (11%), $35 - 39 \text{ kg/m}^3$.

This classification is valid for the following end use conditions:

Substrates

- Any end use substrate of Euroclasses A1 or A2-s1,d0 at least 9 mm thick, having a density $\geq 652 \text{ kg/m}^3$.

Fixings

- Mechanically fixed against the substrate.

Void

- No 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.

SP Technical Research Institute of Sweden

Fire Technology - Fire Dynamics

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