

Burnblock ApS  
Wilders Plads 8A  
DK-1401 Copenhagen K  
Danmark

## Reaction to fire classification report

### 1 Introduction

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

### 2 Details of classified product

#### 2.1 General

The product “FR Oak” is defined as 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 EN13986.

#### 2.2 Product description

The product, “FR Oak”, is fully described below and in the test report provided in support of classification listed in Clause 3.1.

According to the client:

Fire retardant solid oak panel called “FR Oak”. The product has a nominal density of 500 – 750 kg/m<sup>3</sup> and a nominal thickness of 20 mm. The dry uptake of Burnblock fire retardant is 16 kg/m<sup>3</sup>.

The fire retardant is applied to the panel 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	5P06680	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> <sub>0,2MJ</sub> (W/s)		75	Compliant
	<i>FIGRA</i> <sub>0,4MJ</sub> (W/s)		67	Compliant
	<i>LFS</i> < edge		(-)	Compliant
	<i>THR</i> <sub>600s</sub> , (MJ)		5.2	Compliant
	<i>SMOGRA</i> , (m <sup>2</sup> /s <sup>2</sup> )		0.4	Compliant
	<i>TSP</i> <sub>600s</sub> , (m <sup>2</sup> )		35	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 “FR Oak” 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>B</b>	-	<b>s</b>	<b>1</b>	,	<b>d</b>	<b>0</b>	

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

**4.3 Field of application:**

This classification is valid for the following product parameters:

Wood species: Oak.

Nominal thickness:  $\geq 20$  mm..

Nominal density: 500 – 750 kg/m<sup>3</sup>.

Fire retardant: Burnblock, dry uptake 16 kg/m<sup>3</sup>.

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  $\geq 652$  kg/m<sup>3</sup>.

Joints

- Horizontal and vertical joints.

Fixings

- Mechanically fixed against the substrate.

Void

- No void.

The sample was delivered by the client. SP Fire Research 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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