

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 "LVL" in accordance with the procedure given in EN 13501-1:2007+A1:2009.

2 Details of classified product

2.1 General

The product "LVL" is defined as a laminated veneer lumber. Its classification is valid for the end use as a cladding or as a support for cladding elements.

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

2.2 Product description

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

Laminated veneer lumber called "LVL", consisting of several layers of spruce and pine veneer treated with Burnblock fire retardant. The nominal dry amount of added fire retardant is 35 kg/m³. The product has a nominal thickness of 27 mm and a nominal density of 550 – 600 kg/m³.

The fire retardant is applied to the plywood in a vacuum-pressure impregnation process or individual soaking of each veneer prior to gluing.

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 client	Test report ref no	Accredited test method
SP	Burnblock ApS	4P05147	EN 13823(SBI)

SP Technical Research Institute of Sweden

*Postal address*SP
Box 857
SE-501 15 BORÅS
Sweden*Office location*Västeråsen
Brinellgatan 4
SE-504 62 BORÅS*Phone / Fax / E-mail*+46 10 516 50 00
+46 33 13 55 02
info@sp.se

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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)		68	Compliant
	<i>FIGRA</i> _{0,4MJ} (W/s)		42	Compliant
	<i>LFS</i> < edge		(-)	Compliant
	<i>THR</i> _{600s} , (MJ)		3.8	Compliant
	<i>SMOGRA</i> , (m ² /s ²)		1.8	Compliant
	<i>TSP</i> _{600s} , (m ²)		48	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 “LVL” 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:

Wood species: Pine and spruce.

Nominal thickness: ≥ 27 mm.

Nominal density: 550 – 600 kg/m³.

Fire retardant: Burnblock, nominal dry uptake 35 kg/m³.

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 ≥ 652 kg/m³.

Fixings

- Mechanically fixed.

Joints

- Horizontal and vertical joints.

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 Research - Fire Dynamics**

Performed by



Anna Bergstrand

Examined by



Per Thureson