



# REPORT

issued by an Accredited Testing Laboratory

Contact person  
**Torben Ronstad**  
Fire Research  
+46 10 516 58 35  
Torben.Ronstad@sp.se

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2015-03-31

Reference  
4P07750-6

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

## Classification of fire resistance in accordance with EN 13501-2:2007 + A1:2009

**Sponsor:** Burnblock ApS  
Wilders Plads 8A  
DK-1401 Copenhagen K  
Denmark

**Prepared by:** SP Technical Research Institute of Sweden  
Box 857  
SE-501 15 Borås  
Sweden

**Product name:** Spruce profile

**Classification report No:** 4P07750-6

**Date of issue:** Mars 31, 2015

This classification report consists of four pages and two appendix and may only be used or reproduced in its entirety.

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### 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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## 1 Introduction

This classification report defines the resistance to fire classification assigned to element “Spruce profile” in accordance with the procedures given in EN 13501-2:2007+A1:2009.

## 2 Details of classified product

### 2.1 General

The element “Spruce profile” is defined as a covering without an air gap (a cavity) behind it.

The function of the element is to provide protection for the material behind the covering in respect of the fire performance characteristic K, as described in clauses 5.2.9 and 7.6.4 of EN 13501-2:2007+A1:2009.

### 2.2 Description

The covering element consists of boards of wood treated with fire-retardant liquid. The boards are made of spruce and have the width 95 mm, thickness 12 mm and length 2900 mm. The boards are rebated for joining.

The boards are treated with fire retardant designated Burnblock, in accordance with appendix 2.

The boards are mounted to the substrate with decking screws on the centre distance 600 mm. Two screws are mounted in each attachment point.

The joints between the short ends of the boards are flat without any rebate.

Included components:

<i>Component</i>	<i>Designation</i>	<i>Manufacturer/Supplier</i>
Boards	Spruce profile	Burnblock ApS
Decking screw	Trallskruv 4,2x41 A4	V/S/B Västsvenska Byggskruv AB

The construction of the element can be seen from the sponsor's drawings and specifications in appendix 1. In case that the sponsor's drawings and specifications fail to correspond with the construction SP has crossed details or altered the drawings and specifications.

### 3 Test reports and test results in support of the classification

#### 3.1 Test reports

<i>Name of laboratory</i>	<i>Name of sponsor</i>	<i>Report ref. no</i>	<i>Accredited test method</i>
SP Technical Research Institute of Sweden	Burnblock ApS Wilders Plads 8A DK-1401 Copenhagen K Denmark	4P07750-3, dated Mars 31, 2015	EN 14135:2004

#### 3.2 Test result

<b>Test method:</b>	EN 14135:2004
<b>Test and date:</b>	4P07750-3, dated Mars 31, 2015
<b>Parameter:</b>	<b>Result:</b>
<b>Collapse of the covering or parts of it:</b>	None
<b>Thermal insulation:</b>	
- max. average temperature rise	71 °C
- maximum temperature rise	82 °C
<b>Burnt material, charred material, melted material or shrunk material at any point of the substrate:</b>	None

### 4 Classification and field of application

#### 4.1 Reference of classification

This classification has been carried out in accordance with Clause 7 of EN 13501-2:2007 + A1:2009.

## 4.2 Classification

**Fire resistance classification: K<sub>1</sub> 10**  
**Fire resistance classification: K<sub>2</sub> 10**

## 4.3 Field of application

This classification is valid for the following end use applications:

### *Substrate:*

- The element can be used on substrates having a density of at least 300 kg/m<sup>3</sup> for a covering designated K<sub>1</sub> 10.
- The element can be used on all substrates for a covering designated K<sub>2</sub> 10.

### *Fixings:*

- The element can be used with the same fixing method but a closer spacing between the fixings than the tested specimen.

### *Air gap:*

- No air gap behind the covering is allowed.

### *Orientation of the covering:*

- The element can be used for horizontal, vertical and sloped application.

## 5 Limitations

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

### **SP Technical Research Institute of Sweden** **Fire Research - Fire Resistance**

Performed by

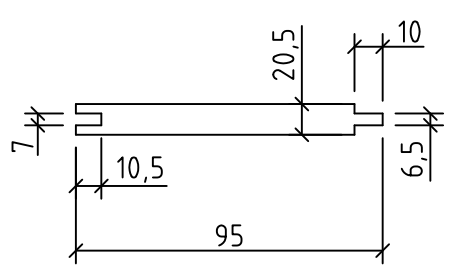
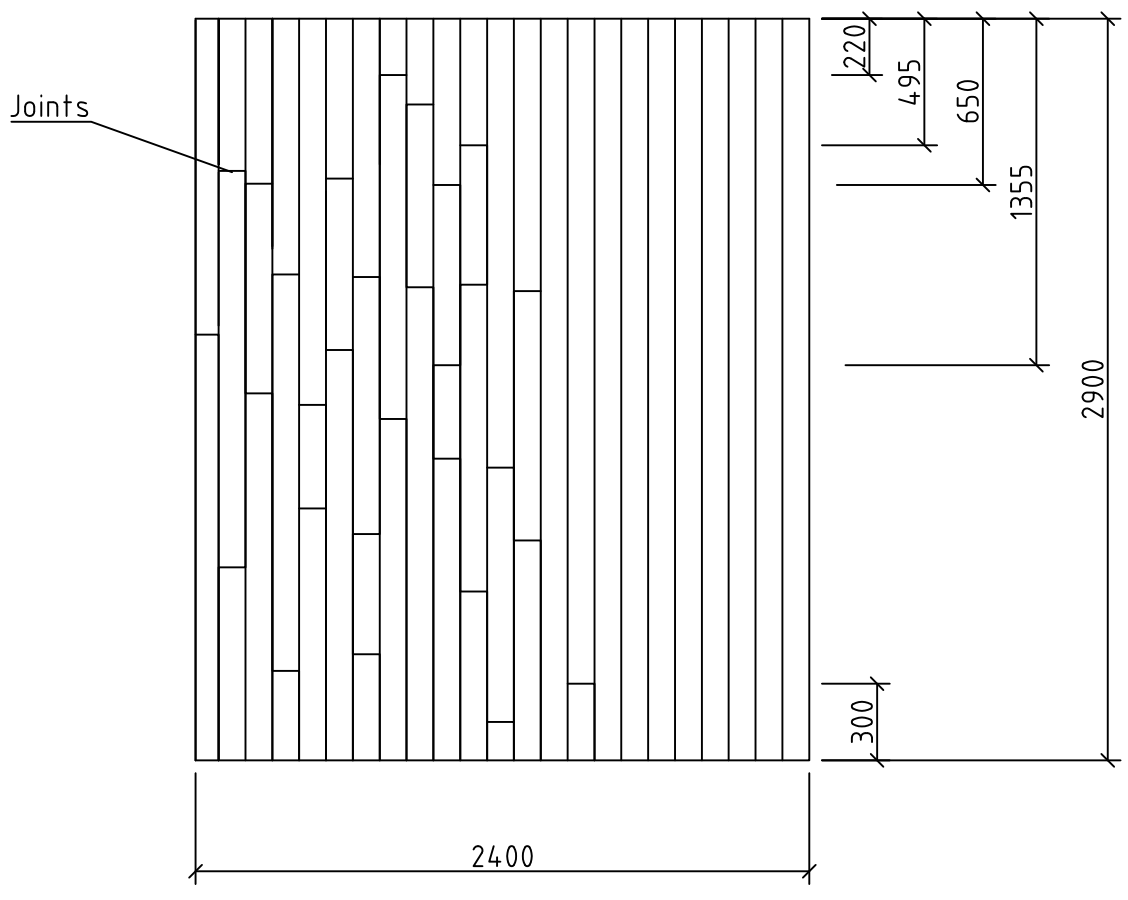
Examined by


Torben Ronstad

Patrik Johansson

**Appendices:** 2 (one page per appendix)

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	REF: 4P07750-6
	APP: 2

**Client:**

**BURNBLOCK**

Wilders Plads 8A  
 DK-1401 Copenhagen K  
 Phone: (+45) 7023 2053



**According to the client:**

~~Product called "FR Birch Plywood", consisting of several layers of Burnblock flame retardant pine veneer.  
 The nominal dry amount of added flame retardant (Burnblock) min. 32kg/m<sup>3</sup>.  
 The product has a nominal thickness of min 12 mm and a nominal density of 700 – 750 kg/m<sup>3</sup>.~~

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

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~~Product called "FR Pine Plywood", consisting of several layers of Burnblock flame retardant pine veneer. The nominal dry amount of added flame retardant (Burnblock) min. 47kg/m<sup>3</sup>.  
 The product has a nominal thickness of min 12 mm and a nominal density of 450 – 500 kg/m<sup>3</sup>.~~

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

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Wood panel Called "Spruce profile" consisting of flame retardant spruce wood. The nominal amount of added flame retardant Burnblock min. 35 kg/m<sup>3</sup>. The product has a nominal density of 450 kg/m<sup>3</sup>, a nominal thickness of 21 mm and a nominal width of 120 mm.

The fire retardant is applied to the panel in a vacuum-pressure impregnation process.