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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: FR Pine Plywood

Classification report No: 4P07750-4

Date of issue: Mars 30, 2015

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

Appendices 2 (one page per appendix)

1 Introduction

This classification report defines the resistance to fire classification assigned to element “FR Pine Plywood” in accordance with the procedures given in EN 13501-2:2007+A1:2009 (E).

2 Details of classified product

2.1 General

The element “FR Pine Plywood” is defined as several layers of Burnblock flame retardant pine veneer, 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 element consists of tongued and grooved boards of plywood consisting of 5 layers of Burnblock flame retardant pine veneer. The plywood is made of pine and has the width 1200 mm, thickness 15 mm and length 2400 mm.

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

The boards are attached to the substrate with 41 mm long decking screws. The centre distance between the screws is approximately 150 mm.

Included components:

Component	*Designation*	*Manufacturer*
Plywood with dimensions (width x thickness x length) 1200 x15 x 2400 mm	FR Pine Plywood	Burnblock ApS
Flame retardant impregnation	Burnblock	Burn block Apes
Decking screws	Trallskruv 4,2x41 A4	V/S/B Västsvenska Byggskruv AB

A description of the construction and components of the element “FR Pine Plywood” is also described in appendices 1 - 2. 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

Name of laboratory	*Name of sponsor*	*Test and date*	*Accredited test method*
SP Technical Research Institute of Sweden	Burnblock ApS Wilders Plads 8A DK-1401 Copenhagen K Denmark	4P07750-1, dated Mars 25 , 2015	EN 14135:2004

3.2 Test result

Test method:	EN 14135:2004
Test and date:	4P07750-1, dated Mars 25, 2015
Parameter:	**Result:**
Collapse of the covering or parts of it:	None
Thermal insulation: - average temperature	69°C
- maximum temperature	77°C
Burnt material, charred material, melted material or shrunk material at any point of the substrate and at any point of the unexposed side of the covering:	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 (E).

4.2 Classification

Fire resistance classification: K_1 10

Fire resistance classification: K_2 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^3 for a covering designated K_1 10.
- The element can be used on all substrates for a covering designated K_2 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

Signed by: Torben Ronstad
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Examined by

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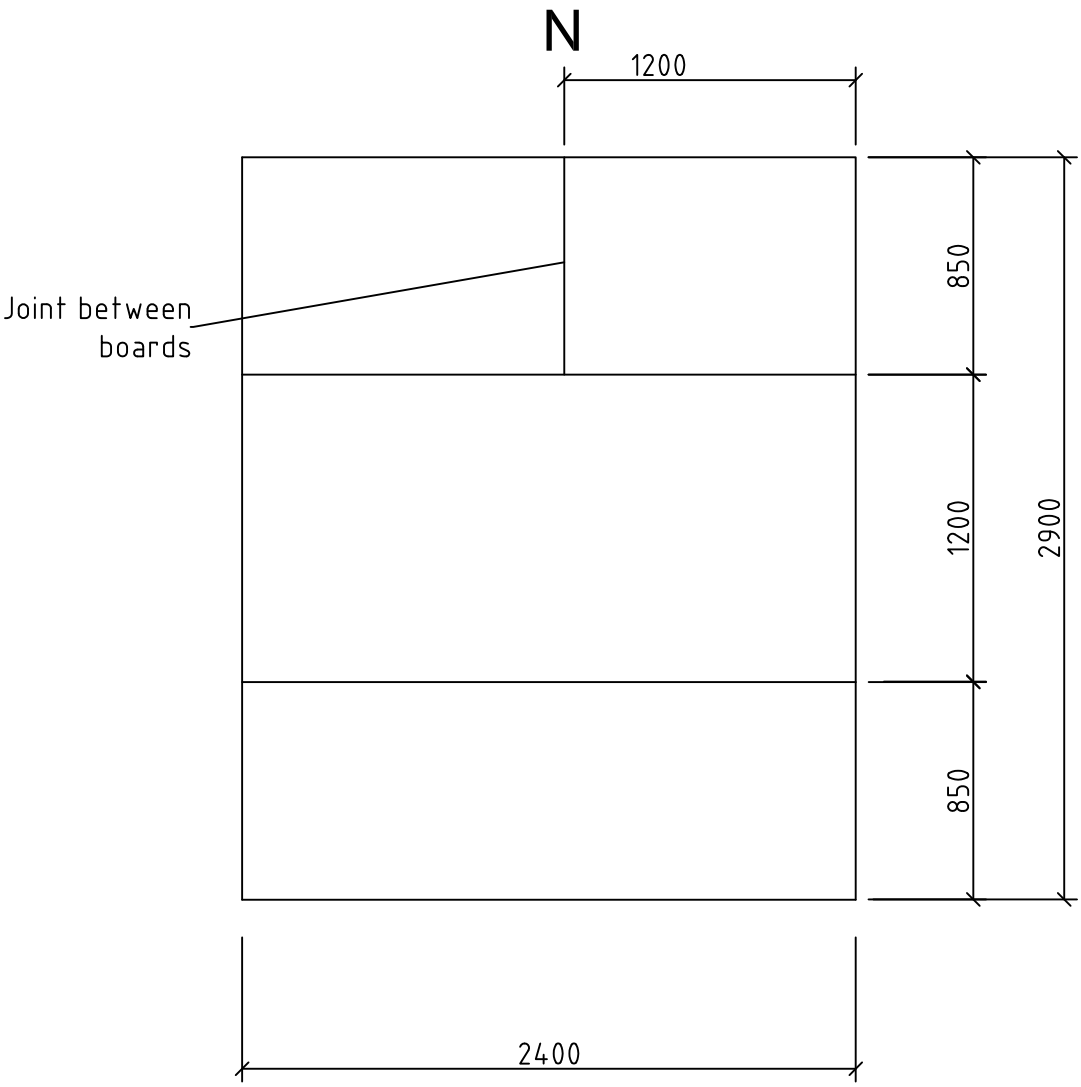
Appendices 2 (one page per appendix)

Test setup

Test specimen

Appendix No: 1	
Report No: 4P07750-4	
Date: 2015-01-06	Rev. Date:
Scale: 1:30	Sign: AT



Client:

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

REF: 4P07750-4

APP: 2

BURNBLOCK® NATURAL & NON-TOXIC FIRE RETARDANT

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/m3.
The product has a nominal thickness of min 12 mm and a nominal density of 700 – 750 kg/m3.

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/m3.
The product has a nominal thickness of min 12 mm and a nominal density of 450 – 500 kg/m3.

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/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 panal in a vacuum-pressure impregnation process.