

Reaction to Fire Classification Report

Thermo Pine Pinus Sylvestris



Client: Burnblock ApS
File no.: PCA10648A
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Pages: 5 **Encl.:** 2
Ref: MPA / JAG

Client information

Client: Burnblock ApS
Address: Wilders Plads 15C
DK-1403 Copenhagen
Denmark

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1. Introduction

This classification report defines the classification assigned to the product group "Thermo Pine Pinus Sylvestris" in accordance with the procedures given in EN 13501-1:2018.

2. Details of classified product

2.1 General

The product "Thermo Pine Pinus Sylvestris" is defined as a solid wood panel according to product standard:

EN 14915:2013 Solid wood paneling and cladding – Characteristics, evaluation of conformity and marking

2.2 Product description

The product "Thermo Pine Pinus Sylvestris" is thermally treated regular pine wood panels impregnated with Burnblock.

The following information was given by the client:

Description of the wood material:

- Thermo Pine Pinus Sylvestris.
- solid.
- moisture content 3.34%.
- dimension: L=151.5 cm W=10 cm T=1.5 cm.
- density: 431.8 kg/m³.

Description of the treatment:

- pre-treatment: 20 min at 0,1 bar.
- application method: Pressure 40 min at 12 bar.
- retention of Burnblock (PRO 100573)= 50.4 kg/m³.

Description of sorting of Pine Pinus Sylvestris for WTT process:

- sorting class A: Best sorting class of pine wood in regard to knots.

Product was impregnated by Teknologisk Institut and Finotrol Oy (NB No. 2412) sampled panels for test by random selection of the total batch. See sampling report in enclosure 1-2.

3. Reports and results in support of this classification

3.1 Reports

Name of laboratory	Name of client	Report ref. No	Test method Field of application rules	Date
DBI	Burnblock ApS	PFA11473D	EN 13823 EN ISO 11925-2	2020-03-27 2020-05-11

3.2 Results

Test methods	Parameter	Number of tests ^a	Results	
			Continuous parameter mean (m)	Compliance with parameters
EN 13823	FIGRA _{0.2 MJ} (W/s)	3	102	(-)
	FIGRA _{0.4 MJ} (W/s)	3	75	(-)
	THR _{600s} (MJ)	3	3.0	(-)
	SMOGR _A (m ² /s ²)	3	1*	(-)
	TSP _{600s} (m ²)	3	34*	(-)
	LFS < edge	3	(-)	Y
	FDP _{f≤10s}	3	(-)	Y
	FDP _{f>10s}	3	(-)	Y
EN ISO 11925-2				
Surface flame attack, 30 s exposure	F _s ≤ 150 mm within 60 s.	6	(-)	Y
	No ignition of filter paper	6	(-)	Y
Edge flame attack, 30 s exposure	F _s ≤ 150 mm within 60 s.	6	(-)	Y
	No ignition of filter paper	6	(-)	Y
a Not for extended application Y "Compliant" (-) not applicable *Based on test on new conditioned calcium silicate board and calculated using the procedure of EN 13823 Annex A.6.1.2 Note				

4. Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with clause 11.6, 11.9 and 11.10 of EN 13501-1:2018.

4.2 Classification

The product "Thermo Pine Pinus Sylvestris" in relation to its reaction to fire behavior is classified: B

The additional classification in relation to smoke production is: s1

The additional classification in relation to flaming droplets/particles is: d0

Reaction to fire classification:

B-s1,d0

4.3 Field of application

The classification is valid for the following end use conditions:

- any substrates of classes A1 and A2-s1,d0 of at least 12 mm thickness and with a density equal to or greater than 525 kg/m³.
- with the product fixed mechanically to the substrate.
- with a ventilated or non-ventilated air gap.
- with no air gap.
- with horizontal and vertical joints.
- with the panels mounted horizontally.

According APPROVED GUIDANCE NB-CPR/SH02/19/832r2 of 14 January 2020 and EN 13501-1:

The classification is also valid for the following product parameters:

- with a nominal retention level of 50.4 kg/m³ Burnblock in the panel.
- with a nominal thickness of the panel equal to 15 mm.
- for square cut panels.
- for best sorting class of pine in regard to knots.

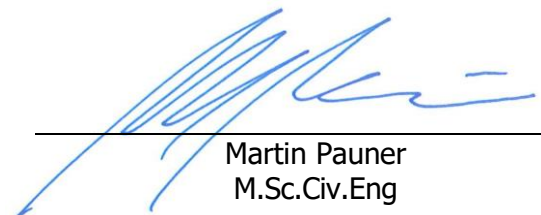
For nominal thicknesses larger than 15 mm the reaction to fire class is B-s2,d0.

5. Limitations

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



Jeppe Ankjær
B.Eng. Architectural Engineering



Martin Pauner
M.Sc.Civ.Eng

Burnblock ApS
Wilders Plads 15C
DK-1403 Copenhagen K
Denmark