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CLASSIFICATION OF REACTION TO FIRE

IN ACCORDANCE WITH EN 13501-1:2018

Sponsor:	Oy Puucomp Ab Asemakatu 12 FI-64100 Kristiinankaupunki, Finland
Prepared by:	Eurofins Expert Services Oy Kivimiehentie 4, Espoo FI-02150 Espoo, Finland
Notified Body No:	0809
Product:	PuuComp ArborLine massive
Classification report No:	EUFI29-19002792-T3
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This classification report consists of five pages and may be used or reproduced in its entirety.

1 Introduction

This classification report defines the classification assigned to the product PuuComp Arborline massive in accordance with the procedures given in EN 13501-1:2018.

2 Details of classified product

2.1 General

The product PuuComp Arborline massive is defined as Wood batten structure.

2.2 Product description

The product PuuComp Arborline massive is described below.

Manufacturer: Oy Puucomp Ab
Product description: Wood battens in vertical and horizontal direction on acoustic felt
Structure of product:
- Water solvent fire retardant treated hardwood battens (fire retardant: HR Prof, 600 g/m^2)
- Acoustic felt (thickness 0,15 mm, weight about 210 g/m^2, A2-s1, d0)
- Impregnated plywood studs (60 mm x 15 mm, product name: Paged FR Birch, B-s1, d0)
- Air gap 15 mm
- Calcium silicate board (thickness 12 mm)

Wood species of battens: Oak (thickness 37 mm, width 27 mm, density 450…720 kg/m^3)

3 Test reports and test results in support of classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test report	Test methods and date
Eurofins Expert Services Oy	Oy Puucomp Ab	EUFI29-19002792-T1	EN 13823 4 November 2019
Eurofins Expert Services Oy	Oy Puucomp Ab	EUFI29-19002792-T2	EN ISO 11925-2 4 November 2019

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3.2 Test results

Test method	Parameter	Number of tests	Continuous parameter mean (m)	Compliance with parameters
EN 13823	$FIGRA_{0,2\ MJ}$ (W/s)	3[1]	110	Compliant
	$FIGRA_{0,4\ MJ}$ (W/s)	3[1]	103	Compliant
	THR_{600s} (MJ)	3[1]	7,8	Compliant
	LFS edge	3[1]	-	Compliant
	SMOGRA (m^2/s^2)	3[1]	1	Compliant
	TSP_{600s} (m^2)	3[1]	38	Compliant
	Flaming droplets / particles	3[1]	-	Compliant
EN 13823	$FIGRA_{0,2\ MJ}$ (W/s)	1[2]	83	Compliant
	$FIGRA_{0,4\ MJ}$ (W/s)	1[2]	80	Compliant
	THR_{600s} (MJ)	1[2]	7,9	Compliant
	LFS edge	1[2]	-	Compliant
	SMOGRA (m^2/s^2)	1[2]	2	Compliant
	TSP_{600s} (m^2)	1[2]	29	Compliant
	Flaming droplets / particles	1[2]	-	Compliant
EN ISO 11925-2 Surface and edge exposure Exposure time 30 s	Flame spread ≤ 150 mm	12[3]	-	Compliant
Flaming droplets/particles	Ignition of the filter paper	12[3]	-	Compliant
EN ISO 11925-2 Surface exposure Exposure time 30 s	Flame spread ≤ 150 mm	6[4]	-	Compliant
Flaming droplets/particles	Ignition of the filter paper	6[4]	-	Compliant

1) Wood battens in vertical direction
2) Wood battens in horizontal direction
3) Wood battens
4) Acoustic felt on plywood

4 Classification and field of application

4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2018.

4.2 Classification

The product PuuComp ArborLine massive in relation to their reaction to fire behaviour are classified:

C

The additional classification in relation to smoke production is:

s1

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

d0

The format of the reaction to fire classification is:

Fire behaviour		Smoke production			Flaming droplets	
C	-	s	1	,	d	0

i.e.: C-s1, d0

4.3 Field of application

This classification is valid for the following product parameters:

- fire retardant wood battens (thickness 37 mm, width 27 mm, fire retardant HR Prof, 600 g/m^2)
- spacing between the wood battens 75 mm
- impregnated plywood studs (thickness 15 mm, product name: Paged FR Birch, B-s1, d0)
- with an air gap of 15 mm between the wood battens and a substrate of classes A1 and A2-s1, d0 with density of at least 652,5 kg/m^3.
- with or without vertical or horizontal butt joint
- mechanically fixed with screws to substrate and plywood studs

5 Limitations

This classification report does not represent type approval or certification of the products.

Espoo, 4 November 2019

Matti Lanu   *Tatu Waltari*
Business Segment Manager   *Expert*

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