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## **Expert Services**

### CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH EN 13501-1:2018

Sponsor:	Oy Puucomp Ab Asemakatu 12 FI-64100 Kristiinankaupunki, Finland			
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Notified Body No:	0809			
Product:	PuuComp ArborLine massive			
Classification report No:	EUFI29-19002792-T3			
Date of issue:	4 November 2019			

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#### **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<sup>2</sup>)
- Acoustic felt (thickness 0,15 mm, weight about 210 g/m<sup>2</sup>, 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<sup>3</sup>)

#### 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 <sub>0,2 MJ</sub> (W/s)	<b>3</b> <sup>1)</sup>	110	Compliant	
	FIGRA <sub>0,4 MJ</sub> (W/s)	3 <sup>1)</sup>	103	Compliant	
	THR <sub>600s</sub> (MJ)	3 <sup>1)</sup>	7,8	Compliant	
	LFS edge	3 <sup>1)</sup>	-	Compliant	
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3 <sup>1)</sup>	1	Compliant	
	TSP <sub>600s</sub> (m <sup>2</sup> )	3 <sup>1)</sup>	38	Compliant	
	Flaming droplets / particles	31)	-	Compliant	
EN 13823	FIGRA <sub>0,2 MJ</sub> (W/s)	<b>1</b> <sup>2)</sup>	83	Compliant	
	FIGRA <sub>0,4 MJ</sub> (W/s)	<b>1</b> <sup>2)</sup>	80	Compliant	
	THR <sub>600s</sub> (MJ)	<b>1</b> <sup>2)</sup>	7,9	Compliant	
	LFS edge	1 <sup>2)</sup>	-	Compliant	
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	1 <sup>2)</sup>	2	Compliant	
	TSP <sub>600s</sub> (m <sup>2</sup> )	<b>1</b> <sup>2)</sup>	29	Compliant	
	Flaming droplets / particles	<b>1</b> <sup>2)</sup>	-	Compliant	
EN ISO 11925-2					
Surface and edge exposure	Flame spread ≤ 150 mm	12 <sup>3)</sup>	-	Compliant	
Exposure time 30 s					
Flaming droplets/particles	Ignition of the filter paper	12 <sup>3)</sup>	-	Compliant	
EN ISO 11925-2					
Surface exposure	Flame spread	6 <sup>4)</sup>	-	Compliant	
Exposure time 30 s	≤ 150 mm				
Flaming droplets/particles	Ignition of the filter paper	6 <sup>4)</sup>	-	Compliant	

1) Wood battens in vertical direction

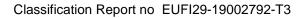
2) Wood battens in horizontal direction

3) Wood battens

4) Acoustic felt on plywood



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#### 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:

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	
С	-	S	1	7	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<sup>2</sup>)
- 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<sup>3</sup>.
- with or without vertical or horizontal butt joint
- mechanically fixed with screws to substrate and plywood studs



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#### **5** Limitations

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

Espoo, 4 November 2019

Matti Lanu Business Segment Manager Tatu Waltari Expert

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