

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

**Sponsor:** Oy Puucomp Ab  
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**Notified Body No:** 0809

**Products:**

**Classification report No:** EUFI33-23000872-T3

**Date of issue:** 19 June 2023

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 A2** in accordance with the procedures given in EN 13501-1:2018.

## 2 Details of classified product

### 2.1 General

The product **Puucomp Arborline A2** is defined as fiber gypsum battens covered with birch veneer vertically and horizontally direction with acoustic felt.

### 2.2 Product description

The product **Puucomp Arborline A2** described below.

Product name: **Puucomp ArborLine A2**

Manufacturer: Oy Puucomp Ab

Product description: Fiber gypsum battens covered with birch veneer vertically and horizontally direction with acoustic felt.

Structure of product:

- Species of battens: Fiber gypsum battens covered with birch veneer (thickness 38 mm, width 28 mm, density 1100...1250 kg/m<sup>3</sup>, thickness of veneer 0,6 mm)
- Lacquer: Uvinol Sealer HB (base coat, 15 g/m<sup>2</sup>), Uvinol Clear 10 (top coat, 10 g/m<sup>2</sup>)
- Adhesive: GripPro Light Adhesive A014 + GripPro Light hardener H014 (180...220 g/m<sup>2</sup>)
- Acoustic felt: Acoustic nonwoven PW210 (thickness 0,15 mm, weight about 210 g/m<sup>2</sup>, A2-s1, d0)
- Fire retardant treated plywood studs: Paged FR Birch (60 mm x 15 mm, B-s1, d0)

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

### 3.1 Test reports

Name of laboratory	Name of sponsor	Test report	Test method and date
Eurofins Expert Services Oy	Oy Puucomp Ab	EUFI33-23000872-T1	EN 13823 19 June 2023
Eurofins Expert Services Oy	Oy Puucomp Ab	EUFI33-23000872-T2	EN ISO 11925-2 19 June 2023

3.2 Test results

Test method	Parameter	Number of tests	Continuous parameter mean (m)	Compliance parameters
<b>EN 13823</b>	FIGRA <sub>0,2 MJ</sub> (W/s)	3 <sup>(1)</sup> + 1 <sup>(2)</sup>	10 <sup>(1)</sup> + 7 <sup>(2)</sup>	Compliant
	FIGRA <sub>0,4 MJ</sub> (W/s)	3 <sup>(1)</sup> + 1 <sup>(2)</sup>	10 <sup>(1)</sup> + 7 <sup>(2)</sup>	Compliant
	THR <sub>600s</sub> (MJ)	3 <sup>(1)</sup> + 1 <sup>(2)</sup>	1,7 <sup>(1)</sup> + 1,3 <sup>(2)</sup>	Compliant
	LFS edge	3 <sup>(1)</sup> + 1 <sup>(2)</sup>	-	Compliant
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3 <sup>(1)</sup> + 1 <sup>(2)</sup>	0 <sup>(1)</sup> + 0 <sup>(2)</sup>	Compliant
	TSP <sub>600s</sub> (m <sup>2</sup> )	3 <sup>(1)</sup> + 1 <sup>(2)</sup>	16 <sup>(1)</sup> + 14 <sup>(2)</sup>	Compliant
	Flaming droplets / particles	3 <sup>(1)</sup> + 1 <sup>(2)</sup>	-	Compliant
<b>EN ISO 11925-2</b> Surface, edge and edge exposure specimen turned at 90° round its vertical axis Exposure time 30 s Flaming droplets/particles	Flame spread ≤ 150 mm	34	-	Compliant
	Ignition of the filter paper	-	-	Compliant

- 1) Wood battens in vertical direction with air cap (15 mm) to the substrate (calcium silicate board, 11 ± 2 mm, density 870 ± 50 kg/m<sup>3</sup>)  
 2) Wood battens in horizontal direction with air cap (15 mm) to the substrate (calcium silicate board, 11 ± 2 mm, density 870 ± 50 kg/m<sup>3</sup>)

**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 A2 in relation to reaction to fire behaviour are classified:

B

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	
B	-	s	1	,	d	0

i.e.: B-s1, d0

**4.3 Field of application**

This classification is valid for the following product parameters:

- Fiber gypsum battens covered with birch veneer (thickness 38 mm, width 28 mm, density 1100...1250 kg/m<sup>3</sup>, thickness of veneer 0,6 mm)
- Lacquer: Uvinol Sealer HB (base coat, 15 g/m<sup>2</sup>), Uvinol Clear 10 (top coat, 10 g/m<sup>2</sup>)
- spacing between the wood battens 20 ± 2 mm
- fire retardant treated plywood studs (thickness 15 mm, product name: Paged FR Birch, B-s1, d0)
- Adhesive: GripPro Light Adhesive A014 + GripPro Light hardener H014 (180...220 g/m<sup>2</sup>)
- Acoustic felt: Acoustic nonwoven PW210 (thickness 0,15 mm, weight about 210 g/m<sup>2</sup>, A2-s1, d0)

This classification is valid for the following end use application:

- 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 (870 ± 50) kg/m<sup>3</sup>.
- with or without vertical or horizontal 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, 19 June 2023**

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DISTRIBUTION

Customer, electronically approved