



**CLASSIFICATION OF REACTION TO FIRE  
IN ACCORDANCE WITH EN 13501-1:2007+A1:2009**

**Sponsor:** Oy Puucomp Ab  
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FI-64100 Kristiinankaupunki, Finland

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**Notified Body No:** 0809

**Product:** Puucomp interior panel A2

**Classification report No:** VTT-S-7213-13

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This classification report consists of four pages and may be used or reproduced in its entirety.



## 1 Introduction

This classification report defines the classification assigned to the product Puucomp interior panel A2 in accordance with the procedures given in EN 13501-1:2007+A1:2009.

## 2 Details of classified product

### 2.1 General

The product Puucomp interior panel A2 is defined as a fibre cement flat sheet.

### 2.2 Product description

The product Puucomp interior panel A2 is described below:

Product description: veneered fibre gypsum board  
 Manufacturer: Oy Puucomp Ab, Kristiinankaupunki  
 Thickness of the product: 12,5 mm  
 Surface: veneered surface, 0,3 mm, 590 kg/m<sup>3</sup>, 177 g/m<sup>2</sup>  
 Surface treatment of veneer:  
 Base lacquer: Beckry Seal UL 1142, 22 g/m<sup>2</sup>  
 Surface lacquer: Beckry Clear 25 UM1178-0025, 10 g/m<sup>2</sup>  
 Adhesive: Joints Fireadhesive FR, 1,6 g/cm<sup>3</sup>, 140...150 g/m<sup>2</sup>  
 Thickness of fibre gypsum board: 12 mm  
 Density of fibre gypsum board: about 1100...1250 kg/m<sup>3</sup>  
 Area weight of fibre gypsum board: 13,2...15,0 kg/m<sup>2</sup>  
 Organic content of fibre gypsum board: 15...20 %  
 Type of fibre: cellulose  
 Type of joint: open or closed  
 Joint profile: aluminium (see Appendix 1)

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

### 3.1 Test reports

Name of laboratory	Name of sponsor	Test reports	Test methods and date
VTT Expert Services Ltd	Oy Puucomp Ab	VTT-S-4615-13	EN ISO 1716:2010 18 October 2013
VTT Expert Services Ltd	Oy Puucomp Ab	VTT-S-7212-13	EN 13823:2010 18 October 2013



The test results relate only to the sample tested.

### 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)	3 <sup>1)</sup>	43	-
	FIGRA <sub>0,4 MJ</sub> (W/s)	3 <sup>1)</sup>	12	-
	THR <sub>600s</sub> (MJ)	3 <sup>1)</sup>	1,1	-
	LFS edge	3 <sup>1)</sup>	-	Y
	SMOGRA (m <sup>2</sup> /s <sup>2</sup> )	3 <sup>1)</sup>	0	-
	TSP <sub>600s</sub> (m <sup>2</sup> )	3 <sup>1)</sup>	7,6	-
	Flaming droplets / particles	3 <sup>1)</sup>	-	Y
EN ISO 1716	PCS (MJ/kg)	3	0,6 <sup>2)</sup> 0,8 <sup>3)</sup>	-
	PCS (MJ/m <sup>2</sup> )	3	4 <sup>4)</sup>	-

- 1) Vertical and horizontal open joints sealed by aluminium profile. Boards fixed to wooden frame. Cavity between the veneered fibre gypsum boards and backing boards was partially filled with stone wool board, 25 mm, 30 kg/m<sup>3</sup>, class A1, air gap 40 mm.
- 2) Substantial component of the product
- 3) The whole product
- 4) External non-substantial component of the product

## 4 Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-1:2007+A1:2009.

### 4.2 Classification

The product Puucomp interior panel A2 in relation to reaction to fire behaviour is classified:

A2

The additional classification in relation to smoke production is:

s1

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

d0



The test results relate only to the sample tested.

The format of the reaction to fire classification is:

Fire behaviour		Smoke production			Flaming droplets	
A2	-	s	1	,	d	0

i.e.: A2-s1, d0

#### 4.3 Field of application

This classification is valid for the following product parameters:

- thickness of veneer surface  $\leq 0,3$  mm
- density of veneer surface  $\leq 590$  kg/m<sup>3</sup>
- area weight of base lacquer  $\leq 22$  g/m<sup>2</sup>
- area weight of surface lacquer  $\leq 10$  g/m<sup>2</sup>

This classification is valid for following end use conditions:

- with or without open joints sealed by aluminium profile, Appendix 1
- fixed to wooden or metallic frame
- with or without thermal insulation (class A1) in the cavity

#### 5 Limitations

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

Espoo, 18 October 2013



Kai Renholm  
Business Manger



Tiia Rynänen  
Product Manager

APPENDICES

Appendix 1, Drawings of joint profiles

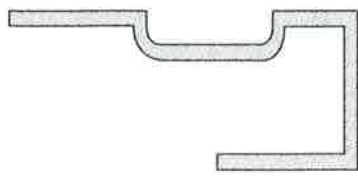
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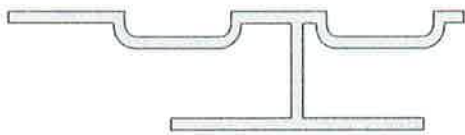


The test results relate only to the sample tested.



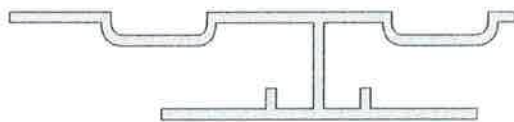
**PAL**

3000 x 25,5 x 10,2 mm



**PPL**

3000 x 38,8 x 10,2 mm



**PAS**

3000 x 48,6 x 10,2 mm

Aluminium profiles for joints

- PAL profile used in edges
- PPL profile used in closed joint
- PAS profile used in open joint