

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

Sponsor: Potma Oy
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Notified Body No: 0809

Product: Potmacore

Classification report No: VTT-S-06212-17

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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 Potmacore in accordance with the procedures given in EN 13501-1:2007+A1:2009

2 Details of classified product

2.1 General

The product Potmacore is defined as honeycomb panel.

2.2 Product description

The product Potmacore is described below:

Manufacturer: Potma Oy

Description of product: both sides coated aluminium honeycomb panel

Diameters of core mesh: 9,6 mm (types 096), 12,8 mm (types 128), 19,2 mm (types 192)

Thicknesses of product:

Potmacore 096, 096C, 096 C/1: 6...30 mm

Potmacore 128, 128 C, 128 C/1: 6...50 mm

Potmacore 192, 192 C, 192 C/1: 6...70 mm

Structure from front to back:

- both side coated aluminium sheet, thickness of sheet $\geq 0,5$ mm
- adhesive
- aluminium honeycomb structure with adhesive
- adhesive
- both side coated aluminium sheet, thickness of sheet $\geq 0,5$ mm

Coatings on aluminium sheet:

- Potmacore 096, 128, 192: epoxy primer on both sides
- Potmacore 096 C, 128 C, 192 C: polyester paint and epoxy primer on both sides
- Potmacore 096 C/1, Potmacore 128 C/1, Potmacore 192 C/1: polyester paint on one side and epoxy primer on both sides

Thickness of polyester paint: $30 \mu\text{m} \pm 5 \mu\text{m}$

Thickness of epoxy primer: $6 \mu\text{m}$

More information about type and amount of adhesive is filed at VTT Expert Services Ltd.



The test results relate only to the sample tested.

3 Test reports and test results in support of classification

3.1 Test reports

Name of laboratory	Name of sponsor	Test reports	Test method and date
VTT Expert Services Ltd	Potma Oy	VTT-S-06210-17	EN 13823 27 November 2017
VTT Expert Services Ltd	Potma Oy	VTT-S-06211-17	EN ISO 119225-2 27 November 2017

3.2 Test results

Test method	Parameter	Number of tests	Continuous parameter mean (m)	Compliance parameters
EN 13823	FIGRA _{0,2 MJ} (W/s)	3 ¹⁾	0	-
	FIGRA _{0,4 MJ} (W/s)	3 ¹⁾	0	-
	THR _{600s} (MJ)	3 ¹⁾	0,6	-
	LFS edge	3 ¹⁾	-	Y
	SMOGRA (m ² /s ²)	3 ¹⁾	0	-
	TSP _{600s} (m ²)	3 ¹⁾	12,4	-
	Flaming droplets / particles	3 ¹⁾	-	Y
EN ISO 11925-2 surface, edge and edge exposure specimen turned at 90° round its vertical axis 30 s exposure flaming droplets/particles	F _s ≤ 150 mm	18 ²⁾	-	Compliant
	ignition of the filter paper	18 ²⁾	-	Compliant

- 1) Product (Potmacore 096 C/1, thickness of product 25 mm, thickness of aluminium sheet 0,7 mm) with ventilated cavity (40 mm) to the substrate (calcium silicate board, 11 ± 2 mm, 870 ± 50 kg/m³)
 2) Potmacore 096 C/1, thickness of product 25 mm, thickness of aluminium sheet 0,7 mm)



The test results relate only to the sample tested.

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 Potmacore in relation to reaction to fire behaviour is 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

The classification is valid for the following product parameters:

- thickness of polyester coating $\leq 35 \mu\text{m}$
- thickness of epoxy primer $\leq 6 \mu\text{m}$
- thickness of aluminium sheet $\geq 0,5 \text{ mm}$
- all thicknesses of product
- all diameters of core mesh

The classification is valid for the following end use application:

- with or without ventilated cavity to the substrate of class A1 or A2-s1,d0 with a density of at least 650 kg/m^3
- without vertical or horizontal joints
- with mechanical fixings



The test results relate only to the sample tested.

5 Limitations

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

Espoo, 27 November 2017



Kai Renholm
Business Manager



Tiia Rynänen
Product Manager

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The test results relate only to the sample tested.