

## EXTERNAL EXPOSURE TO FIRE CLASSIFICATION REPORT OF ROOF PRODUCT

**Sponsor:** Potma Oy  
Teollisuustie 10  
FI-95700 Pello, Finland

**Prepared by:** VTT Expert Services Ltd  
Kivimiehentie 4, Espoo  
P.O. Box 1001  
FI-02044 VTT, Finland

**Notified body No:** 0809

**Product:** Potmacore

**Classification report No:** VTT-S-06627-17



## 1 Introduction

This classification report defines the classification assigned to the roof product Potmacore in accordance with the procedures given in EN 13501-5:2016.

## 2 Description of the roofing

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, 096 C, 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.

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

### 3.1 Test report

Name of laboratory	Name of sponsor	Test report	Test method and date
VTT Expert Services Ltd	Potma Oy	VTT-S-06626-17	CEN TS 1187 Test 2 8 December 2017



The test results relate only to the sample tested.

### 3.2 Test 2

Test pitch: 30°

Substrate: expanded polystyrene (EPS) ( $20 \pm 5$ ) kg/m<sup>3</sup>, thickness ( $50 \pm 10$ ) mm

Test specimens: Potmacore 096 C/1, thickness 25 mm

Parameter	Criteria							Compliance
	Mean	Max	Spec. 1	Spec. 2	Spec. 3	Mean	Max	
Damaged length at 2 m/s – roof product	≤ 550	≤ 800	56	28	30	38	56	Yes
Damaged length at 2 m/s – substrate	≤ 550	≤ 800	60	14	65	46	60	Yes
Damaged length at 4 m/s – roof product	≤ 550	≤ 800	0	274	243	172	274	Yes
Damaged length at 4 m/s – substrate	≤ 550	≤ 800	0	0	0	0	0	Yes

## 4 Classification and field of application

### 4.1 Reference of classification

This classification has been carried out in accordance with EN 13501-5:2016.

### 4.2 Classification

The product Potmacore in relation to its external fire performance is classified:

B<sub>ROOF</sub> (t2)

### 4.3 Field of application

This classification is valid for the following conditions:

- combustible and non-combustible substrates with density of at least 15 kg/m<sup>3</sup>



The test results relate only to the sample tested.

## 5 Limitations

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

Espoo, 8 December 2017



Tiia Ryyänen  
Product Manager



Jere Heikkinen  
Expert

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The test results relate only to the sample tested.