



## EXTERNAL EXPOSURE TO FIRE CLASSIFICATION REPORT OF ROOF COVERING

**Sponsor:** PENOPLEX SPb Limited  
Saperny per., 1, lit. A  
RU-191014 St. Petersburg, Russia

**Prepared by:** VTT Expert Services Ltd  
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FI-02044 VTT, Finland

**Notified body No:** 0809

**Product:** PLASTFOIL ECO (1,2 and 1,5 mm)

**Classification report No:** VTT-S-01278-16



**FINAS**  
Finnish Accreditation Service  
T001 (EN ISO/IEC 17026)

### 1 Introduction

This classification report defines the classification assigned to the product (PLASTFOIL ECO 1,2 and 1,5 mm) in accordance with the procedures given in EN 13501-5:2005 + A1:2009.

### 2 Description of the roof covering

The product PLASTFOIL ECO (1,2 and 1,5 mm) is described below.

Description of product: PVC-P based membrane reinforced with polyester grid.

Nominal weight per unit area: 1,80 kg/m<sup>2</sup> (controlled by VTT)

Thickness: 1,2 and 1,5 mm (controlled by VTT)

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

#### 3.1 Test report

Name of laboratory	Name of sponsor	Test report	Test method
VTT Expert Services Ltd	PENOPLEX SPb Limited	VTT-S-01276-16 22 March 2016	CEN TS 1187 Test 2

#### 3.2 Test results (Test 2)

Test pitch: 30°

Substrate: wood particle board substrate, thickness (19 ± 2) mm and density (680 ± 50) kg/m<sup>3</sup>

Parameter	Criteria							Compliance
	Mean	Max	Spe. 1	Spe. 2	Spe. 3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 550	≤ 800	332	311	331	325	332	Yes
Damaged length at 2 m/s – substrate	≤ 550	≤ 800	189	139	186	171	189	Yes
Damaged length at 4 m/s – roof covering	≤ 550	≤ 800	375	379	367	374	379	Yes
Damaged length at 4 m/s – substrate	≤ 550	≤ 800	259	269	229	252	269	Yes



The test results relate only to the sample tested.

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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 13501-5:2005 + A1:2009.

### 4.2 Classification

The product PLASTFOIL ECO (1,2 and 1,5 mm) 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 510 kg/m<sup>3</sup>

## 5 Limitations

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

Espoo, 22 March 2016



Tiia Rynnänen  
Product Manager



Jyri Pekkanen  
Expert

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Original (2)  
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