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## 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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**Notified body No:** 0809

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

**Classification report No:** VTT-S-01277-16



**FINAS**  
Finnish Accreditation Service  
T001 (EN ISO/IEC 17025)

## 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: 1,45 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-01275-16 22 March 2016	CEN TS 1187 Test 2

### 3.2 Test results (Test 2)

Test pitch: 30°

Substrate: non-combustible mineral wool, thickness (50 ± 10) mm and density (150 ± 20) 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	514	404	490	469	514	Yes
Damaged length at 2 m/s – substrate	≤ 550	≤ 800	404	326	282	337	404	Yes
Damaged length at 4 m/s – roof covering	≤ 550	≤ 800	451	471	448	457	471	Yes
Damaged length at 4 m/s – substrate	≤ 550	≤ 800	303	261	272	279	303	Yes



#### 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:

- non-combustible substrates with density of at least 112,5 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 Rynänen  
Product Manager



Jyri Pekkanen  
Expert

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Archive

Original (2)  
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The test results relate only to the sample tested.

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