REPORT Issued by an Accredited Testing Laboratory

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Date

 Reference
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 O100609-195749rev1
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PENOPLEX SPb Limited Saperny per. 1A 191014 Saint-Petersburg Ryssland

Classification report for roof coverings exposed to external fire according to EN 13501-5

1 Introduction

This classification report defines the classification assigned to roof covering "PLASTFOIL Classic" in accordance with the procedures given in EN 13501-5:2016.

This report replaces RISE report O100609-195749, dated 13 January 2022. This revision contains an update of the description of substrate "EUROTHANE SILVER E".

2 Description of the roof covering

2.1 General

The product "PLASTFOIL Classic" is defined as a roof covering. Its classification is valid for the following end use application: roof covering.

2.2 Product description

According to the client:

Roof covering called "PLASTFOIL Classic" consisting of PVC top layer – 45 %, Polyester reinforcing mesh – 10 % and PVC bottom layer – 45 %. The product has a nominal area weight of $1.53 - 2.72 \text{ kg/m}^2$ and a nominal thickness of 1.2 - 2.0 mm.

The roof covering is combined with two substrates.

-PIR substrate called "EUROTHANE SILVER E" with a thickness of 100 mm.

-Substrate of EPS (expanded polystyrene) having a density of 20 kg/m³ approximately, with intermediate glass fleece with an area weight of 120 g/m².

3 Test reports

3.1 Test reports

This classification is based on the test reports listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method	
RISE	PENOPLEX SPb Limited	O100352-184821 O100352-184821-1	CEN/TS 1187 Test 2	

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3.2 Test results

Test conditions: according to CEN/TS 1187:2012, test 2.

Test pitch: 30°.

PIR substrate: "EUROTHANE SILVER E" with a thickness of 100 mm.

Substrate: board of expanded polystyrene (EPS), density (20 ± 5) kg/m³, thickness (50 ± 10) mm.

The product has been tested on two different substrates. A complete test series was performed on both substrates.

The product has been tested with two different thicknesses. A complete test series has been performed on the specimen with the thickness that is considered to be worst case.

	Criteria		Test Results				Compliance	
Parameter	Mean [m]	Max [m]	Spe. 1 [m]	Spe. 2 [m]	Spe. 3 [m]	Mean [m]	Max [m]	
Damaged length at 2 m/s – roof covering	<u><</u> 0.550	<u><</u> 0.800	440	450	490	460	490	Yes
Damaged length at 2 m/s - substrate	<u><</u> 0.550	<u><</u> 0.800	475	465	490	477	490	Yes
Damaged length at 4 m/s – roof covering	<u><</u> 0.550	<u><</u> 0.800	520	460	520	500	520	Yes
Damaged length at 4 m/s - substrate	<u><</u> 0.550	<u><</u> 0.800	480	475	530	495	530	Yes

4. Classification and field of application

4.1 Reference

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

4.2 Classification

The roof covering "PLASTFOIL Classic" in relation to its external fire performance is classified:



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4.3 Field of application:

This classification is valid for the following conditions:

- Nominal thickness: 1.2 2.0 mm.
- Nominal area weight $1.53 2.72 \text{ kg/m}^2$.

Range of substrates:

- "EUROTHANE SILVER E" (PIR) with a thickness of 100 mm.
- EPS, (expanded polystyrene 20 kg/m³), with intermediate glass fleece with an area weight of 120 g/m²,

Range of pitches:

• All pitches.

5 Limitations

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

RISE Research Institutes of Sweden AB Fire and safety - Reaction to Fire Material Lab

Performed by

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