

Nature Impact A/S
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Danmark

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 "Nature Impact Standard 60 mm" in accordance with the procedures given in EN 13501-5:2016.

This report replaces RISE report 9P06022-1, dated September 30, 2019. This revision includes an update of details regarding the composition of the sedum plants

2 Description of the roof covering

2.1 General

The product "Nature Impact Standard 60 mm" is defined as a roof covering. Its classification is valid for the following end use application: roof covering

2.2 Product description

Roof covering called "Nature Impact Standard 60 mm" consisting of a composition of sedum plants, the product has a nominal density in dry state of 554 kg/m³. The sedum plants grow in a substrate of mineral stone material with a maximum of 8% organic content by weight.

The substrate is according to the FLL Guidelines.

The plants and substrate are applied in a special designed APET tray.

3 Test reports

3.1 Test reports

This classification is based on the test report listed below:

Name of laboratory	Name of sponsor	Test report ref no	Accredited test method
RISE	Nature Impact A/S	9P06022rev1	CEN/TS 1187 test 2

3.2 Test results

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

Test pitch: 30°.

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Substrate: board of expanded polystyrene (EPS), density $(20 \pm 5)\text{kg/m}^3$, thickness (50 ± 10) mm.

Parameter	Criteria		Test Results					Compliance
	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	≤ 0.550	≤ 0.800	300	400	350	350	400	Yes
Damaged length at 2 m/s - substrate	≤ 0.550	≤ 0.800	-	-	-	-	-	Yes
Damaged length at 4 m/s – roof covering	≤ 0.550	≤ 0.800	430	470	350	417	470	Yes
Damaged length at 4 m/s - substrate	≤ 0.550	≤ 0.800	-	-	-	-	-	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 "Nature Impact Standard 60 mm" in relation to its external fire performance is classified:

B_{ROOF}(t2)

4.3 Field of application:

This classification is valid for the following conditions:

- Composition, see clause 2.2.

Range of substrates:

- Combustible and non-combustible substrates, having a density $\geq 15 \text{ kg/m}^3$.

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
Safety - Fire Research Materials**

Performed by

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