

**EXTERNAL EXPOSURE TO FIRE CLASSIFICATION REPORT
OF ROOF COVERING CONSTRUCTION**

Sponsor: Roofit Solar Energy OÜ
Joa tee 11, Harku Vald, Vääna küla
76903 Harju maakond, Estonia

Prepared by: Eurofins Expert Services Oy
Kivimiehentie 4
FI-02150 Espoo, Finland

Notified Body No: 0809

Products: **Roofit 3x8/110/RR33/B/C, Roofit 3x10/135/RR33/B/C, Roofit 3x12/160/RR33/B/C, Roofit 3x8/110/RR33/B/DS, Roofit 3x10/135/RR33/B/DS, Roofit 3x12/160/RR33/B/DS, Roofit 2x8/75/RR33/B/C, Roofit 2x10/90/RR33/B/C, Roofit 2x12/110/RR33/B/C, Roofit 3x8/110/RR33/B/DS/W, Roofit 3x10/135/RR33/B/DS/W, Roofit 3x12/160/RR33/B/DS/W**

Classification report No: EUFI29-19002629-T2

Date of issue: 6 May 2019

1 Introduction

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

2 Description of the roof covering

Product names:

- **Roofit** 3x8/110/RR33/B/C
- **Roofit** 3x10/135/RR33/B/C
- **Roofit** 3x12/160/RR33/B/C
- **Roofit** 3x8/110/RR33/B/DS
- **Roofit** 3x10/135/RR33/B/DS
- **Roofit** 3x12/160/RR33/B/DS
- **Roofit** 2x8/75/RR33/B/C
- **Roofit** 2x10/90/RR33/B/C
- **Roofit** 2x12/110/RR33/B/C
- **Roofit** 3x8/110/RR33/B/DS/W
- **Roofit** 3x10/135/RR33/B/DS/W
- **Roofit** 3x12/160/RR33/B/DS/W

Manufacturer: Roofit Solar Energy OÜ

Product description: Building Integrated Photovoltaics (BIPV)

Products technical details are filed at Eurofins Expert Services Oy.

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
Eurofins Expert Services Oy	Roofit Solar Energy OÜ	EUFI29-19002629-T1	CEN TS 1187 Test 2 6 May 2019

3.2 Test 2

Test pitch: 30°

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

Table 1. Test results when the wooden crib was placed at the edge of the solar panel.

Parameter	Criteria							Compliance
	Mean	Max	Spec. 1	Spec. 2	Spec. 3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 550	≤ 800	88	79	86	84	88	Yes
Damaged length at 2 m/s – substrate	≤ 550	≤ 800	0	0	0	0	0	Yes
Damaged length at 4 m/s – roof covering	≤ 550	≤ 800	84	83	70	79	84	Yes
Damaged length at 4 m/s – substrate	≤ 550	≤ 800	0	0	0	0	0	Yes

Table 2. Table 2. Test results when the wooden crib was placed on top of the solar panel.

Parameter	Criteria							Compliance
	Mean	Max	Spec. 1	Spec. 2	Spec. 3	Mean	Max	
Damaged length at 2 m/s – roof covering	≤ 550	≤ 800	0	-	-	0	0	Yes
Damaged length at 2 m/s – substrate	≤ 550	≤ 800	0	-	-	0	0	Yes
Damaged length at 4 m/s – roof covering	≤ 550	≤ 800	0	-	-	0	0	Yes
Damaged length at 4 m/s – substrate	≤ 550	≤ 800	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 roof covering products described in *Paragraph 2* of this report in relation to their external fire performance are classified:

B_{ROOF} (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/m³

5 Limitations

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

Espoo, 6 May 2019

Tiia Rynänen
Business Development Manager

Jere Heikkinen
Expert

Distribution

Customer

Electronically approved