

3SUN S.r.l.

Contrada Blocco Torraze Snc – Frazione Zona

Industriale

95121 Catania

Italian

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 coverings “3SHBGH-AA-xxx, 3SHBGH-AC-xxx, 3SHBGH-AD-xxx, 3SHBGA-AF-xxx” and “3SHBGH-CA-xxx, 3SHBGH-CC-xxx, 3SHBGH-CD-xxx, 3SHBGA-CF-xxx” in accordance with the procedures given in EN 13501-5:2016.

This report replaces RISE report O100741-1342466-2, dated December 11, 2025. This revision includes correction of the product name.

2 Description of the roof covering

2.1 General

The products “3SHBGH-AA-xxx, 3SHBGH-AC-xxx, 3SHBGH-AD-xxx, 3SHBGA-AF-xxx” and “3SHBGH-CA-xxx, 3SHBGH-CC-xxx, 3SHBGH-CD-xxx, 3SHBGA-CF-xxx” are defined as roof covering. Their classification is valid for the following end use application: Solar panel.

2.2 Product description

According to the client:

Photovoltaic module called “3SHBGH-AA-xxx, 3SHBGH-AC-xxx, 3SHBGH-AD-xxx, 3SHBGA-AF-xxx”, with a nominal thickness of 5.155 mm and a nominal area weight of 11.218 kg/m². The product is consisting of:

Layer	Content	Thickness (mm)	Area weight (kg/m ²)
Layer 1	Glass	2	5
Layer 2	POE	0.5	0.430
Layer 3	Silica cells	0.155	0.358
Layer 4	POE	0.5	0.430
Layer 5	Glass	2	5

RISE Research Institutes of Sweden AB

Postal address

Box 857
501 15 BORÅS
SWEDEN

Office location

Brinellgatan 4
504 62 Borås
SWEDEN

Phone / Fax / E-mail

+46 10-516 50 00
+46 33-13 55 02
info@ri.se

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Accred. No. 1002
Testing
ISO/IEC 17025

Photovoltaic module called “3SHBGH-CA-xxx, 3SHBGH-CC-xxx, 3SHBGH-CD-xxx, 3SHBGA-CF-xxx”, with a nominal thickness of 5.12 mm and a nominal area weight of 11.113 kg/m². The product is consisting of:

Layer	Content	Thickness (mm)	Area weight (kg/m ²)
Layer 1	Glass	2	5
Layer 2	POE	0.5	0.430
Layer 3	Silica cells	0.120	0.253
Layer 4	POE	0.5	0.430
Layer 5	Glass	2	5

3 Test reports & test results in support of classification

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	3SUN S.r.l.	O100741-1342466	CEN/TS 1187 Test 2
RISE	3SUN S.r.l.	O100741-1342466-1	CEN/TS 1187 Test 2

3.2 Test results

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

Test pitch: 30°.

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	0.0	0.0	0.0	0.0	0.0	Yes
Damaged length at 2 m/s - substrate	≤0.550	≤0.800	0.0	0.0	0.0	0.0	0.0	Yes
Damaged length at 4 m/s – roof covering	≤0.550	≤0.800	0.0	0.0	0.0	0.0	0.0	Yes
Damaged length at 4 m/s - substrate	≤0.550	≤0.800	0.0	0.0	0.0	0.0	0.0	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 coverings “3SHBGH-AA-xxx, 3SHBGH-AC-xxx, 3SHBGH-AD-xxx, 3SHBGA-AF-xxx” and “3SHBGH-CA-xxx, 3SHBGH-CC-xxx, 3SHBGH-CD-xxx, 3SHBGA-CF-xxx” 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:

Product description, as specified in the table in product description.

Nominal thickness: 5.12 – 5.155 mm

Nominal area weight: 11.113 – 11.218 kg/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 - Fire dynamics

Performed by



Katarina Krnjic

Examined by



Anna Bergstrand

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Signatories

Katarina Krnjic (KK)
RISE Research Institutes of Sweden AB
Company reg. no. 556464-6874
katarina.krnjic@ri.se
+46 10 516 63 40



Signed 2025-12-18 08:27:30 CET (+0100)

anna bergstrand (ab)
RISE
anna.bergstrand@ri.se



Signed 2025-12-18 08:40:14 CET (+0100)

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