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RN 62570888

1 Introduction

This classification report defines the classification assigned to product: Framed double glass PV module - front and back glass 2 mm thick, in accordance with the procedures given in the Standard HRN EN 13501-5:2016.

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH HRN EN 13501-5:2016

Client:	Solvis d.o.o., Ulica Vesne Parun 15, HR-42000 Varaždin
Manufacturer:	Solvis d.o.o., Ulica Vesne Parun 15, HR-42000 Varaždin
Classification made by:	INSTITUT IGH d.d. IGH Laboratory, Materials and Structures Department, Building Physics Laboratory, Janka Rakuše 1, HR-10000 Zagreb, Croatia
Evidence number of notified body in NANDO base :	NB 2477
Building product:	Framed double glass PV module - front and back glass 2 mm thick
Classification Report No.:	EN-72570/044/25-076/25
No. of copies:	2
Date of issue:	2025-10-17

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2 Details for the classified product (data delivered by client)

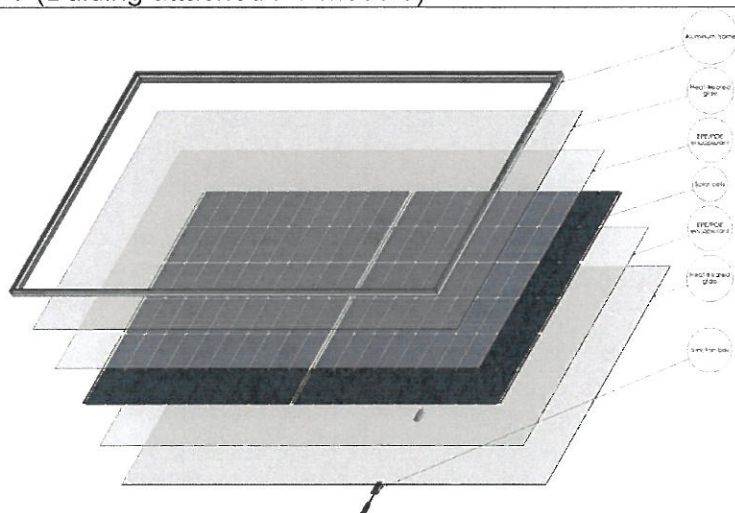
2.1 General information

Product Framed double glass PV module - front and back glass 2 mm thick is a photovoltaic module composed by anodized aluminum frame and a laminate composed by heat-treated glass, EPE/POE encapsulant, monocrystalline photovoltaic cells, junction box and silicone adhesive, reaction to fire classification C-s1,d0 in accordance with HRN EN 13501-1:2019.

2.2 Description of product

Framed double glass PV module - front and back glass 2 mm thick:

Other characteristics	SVNNN-XXX E (Y) GG22 ZZZZZZ SV – brand name (Solar Vision) NNN – cell number in PV module E - mono-Si cell XXX – power of PV module depending of number and cell type Y – mark F for black anodized aluminium frame, without mark is silver (natur) anodized aluminium frame GG – glass glass PV module 22 – front and back glass 2 mm thick ZZZZZZ – cell type or dimension designation
Mass of layers	Glass : 5 kg/m ² Encapsulant : 0,48 kg/m ² Cells : 0,34 kg/m ² Encapsulant : 0,48 kg/m ² Glass : 5 kg/m ² Aluminum frame : 0,425 +/- 0,08 kg/m
Thickness of layers	Glass: 2 mm +/- 0,5 mm Encapsulant+cells+encapsulant : 1,5 mm +/- 0,5 mm Glass: 2 mm +/- 0,5 mm Aluminum frame: 35 mm +/- 5 mm
Colour	Cells: blue/black Aluminum frame: silver (natur) or black
End use	BIPV (Building integrated PV module) BAPV (Buiding attached PV module)



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3 Reports and results for classification

3.1 Test reports

Laboratory name	Client name	Test report	Test method
Institut IGH d.d. IGH Laboratory, Materials and Structures Department, Building Physics Laboratory, Janka Rakuše 1, HR-10000 Zagreb, Croatia	Solvis d.o.o., Ulica Vesne Parun 15, HR-42000 Varaždin	Report No.: 72570/044/25-074/25 dated 2025-10-16	HRS CEN/TS 1187:2012

3.2 Test results

Test requirements:

- test specimen dimensions 1,134 m x 1,909 m,
 - four test samples, of which two tests in the middle of the panel (sample type 1) and one test each of the vertical (sample type 2) and horizontal (sample type 3) panel joints, including the connection components on the underside of the panel.

Test pitch: 15°.

Supporting deck: standard supporting trapezoidal profiled steel deck.

Parameter	Criterion for class B _{ROOF} (t1)	Test results on specimen				Compliance with parameters (yes/no)
		1 (type 1)	2 (type 2)	3 (type 3)	4 (type 1)	
Internal fire spread upwards	< 0,700 m	0,000 m	0,000 m	0,000 m	0,000 m	yes
External fire spread upwards	< 0,700 m	0,000 m	0,000 m	0,000 m	0,000 m	yes
Internal fire spread downwards	< 0,600 m	0,000 m	0,000 m	0,000 m	0,000 m	yes
External fire spread downwards	< 0,600 m	0,000 m	0,000 m	0,000 m	0,000 m	yes
Maximum burned length internal	< 0,800 m	0,000 m	0,000 m	0,000 m	0,000 m	yes
Maximum burned length external	< 0,800 m	0,000 m	0,000 m	0,000 m	0,000 m	yes
Burning, droplets/debris falling from exposed side	no	no	no	no	no	yes
Burning, glowing particles penetrating the roof	no	no	no	no	no	yes
Single through opening	< 25 mm ²	/	/	/	/	yes
Sum of all through openings	< 4500 mm ²	/	/	/	/	yes
Lateral fire spread	< edges (0,25 m)	0,000 m	0,000 m	0,000 m	0,000 m	yes
Internal glowing combustion	no	no	no	no	no	yes
Radius of fire spread (horizontal roof)	< 0,200 m	/	/	/	/	/

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4 Classification and field of application

4.1 Reference

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

4.2 Classification

Product, Framed double glass PV module - front and back glass 2 mm thick, manufacturer Solvis d.o.o., Ulica Vesne Parun 15, HR-42000 Varaždin, applied to standard supporting trapezoidal profiled steel deck, in relation to its reaction to external fire performance is classified: **B_{ROOF} (t1)**.

Classification of external fire performance of roofs/roof coverings: B_{ROOF} (t1)

4.3 Field of application

This classification is valid for Framed double glass PV module - front and back glass 2 mm thick, composition and installation method as described in this document and Test report No.. 72570/044/25-074/25 for

- roof pitch up to 20°,
- roofs on all trapezoidal profiled not perforated steel deck and on continuous non combustible board of minimum 10 mm thickness without gaps.

Annotation: The manufacturer is obligated to state in its documentation and declaration of properties the area of application of the given classification of the reaction to fire of the product

5 Limitations

Time limitation: without limitation with requirement that the dated editions of the standards to which this classification refers are valid.

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

The Test Laboratory did not participate in the product test sampling procedure.

CLASSIFICATION PERFORMED BY:

Tomislav Vuić, univ. spec. aedif.

APPROVED BY:

dr. sc. Mladen Bezjak, dipl. ing. stroj.

