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TEST

INSTITUT IGH, d.d.
Zavod za materijale i konstrukcije
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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 13501-1:2019.

CLASSIFICATION OF REACTION TO FIRE IN ACCORDANCE WITH HRN EN 13501-1:2019

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-72570/040/25-065/25
No. of copies:	2
Date of issue:	2025-09-16

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

2.1 General information

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

2.2 Product description

Constitution 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/m² Encapsulant : 0,48 kg/m² Cells : 0,34 kg/m² Encapsulant : 0,48 kg/m² Glass : 5 kg/m² Aluminum frame : 0,425 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 +/- 0,5 mm
Colour	Cells: blue/black Aluminum frame: silver (natur) or black
End use	BIPV (Building integrated PV module) BAPV (Buiding attached PV module)

Institut IGH d.d. is not responsible for data delivered by client.

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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.: 72570/040/25-063/25 dated 2025-09-16	HRN EN ISO 11925-2:2020

3.2 Test results

Test method	Criterion for class E	No. of tests	Measured mean value	Compliance with parameters
HRN EN ISO 11925-2:2020 (exposure 15 s) Framed double glass PV module - front and back glass 2 mm thick:				
- surface flame exposure:	$F_s \leq 150$ mm	6	< 150 mm	yes
- edge flame exposure	$F_s \leq 150$ mm	6	< 150 mm	yes
- flaming droplets/particles:	no filter paper ignition	12	no filter paper ignition	yes

4 Classification and field of application

4.1 Reference of classification

Classification is in accordance with standard HRN EN 13501-1:2019.

4.2.1 Product 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, in relation to its reaction to fire behaviour is classified: **E.**

Additional classificationin in relation to flaming droplets/particles: **-** .

Fire behaviour		Flaming droplets/particles	
E	-	d	-

Reaction to fire classification: E

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4.3 Field of application

This classification is valid for Framed double glass PV module - front and back glass 2 mm thick, described with this document and Test report No. 72570/040/25-063/25.

5 Limitations

Time limit: 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 has, therefore, played no part in sampling the product for the test, although it holds appropriate references, supplied by the manufacturer, to provide for traceability of the samples tested.

Decision No.: KLASA: UP/I-360-01/20-08/37, URBROJ: 531-04-2-1-2-21-10 on 2021-04-15

Responsible person: Head of the Building Physics Laboratory :

Tomislav Vuić, univ. spec. aedif. dr. sc. Mladen Bezjak, dipl. ing. stroj.