

## Short Form Classification Report No. 18910D

### PRODUCT

PV16-300, PV16-270, PV16-260P, PV16-270P, PV16-280

### SPONSOR

Viridian Solar

### PRODUCT DETAILS & FIELD OF APPLICATION (SUMMARY)

- Thickness: 69 mm
- Weight one solar panel: 21 kg
- Dimensions: 992 x 1640 mm x mm
- Use of fire retardants: No
  
- Range of pitches:  $\geq 20^\circ$
- Range of decks: A non-standard substrate according to CEN/TS 1187:2012 test 1:  
Supporting timbers (47 x 70 mm) + PE vapour barrier (0,4mm) + Wooden battens (25 x 50 mm) +  
Non-combustible roof tiles (A1 according to EN 13501-1)

See the annex on page 2 for a fully detailed field of application and product details.

### CLASSIFICATION

**BROOF (t1)**

### STANDARDS

Test standard: CEN/TS 1187:2012:Test 1 & CEN/TS 16459:2013

Classification standard: EN 13501 5:2016

SIGNED

APPROVED

*For and on behalf of WFRGENT nv*

This short form classification report has been drafted according to EGOLF agreement EGA 08rev2:2013 "Application note: clause 5.10 [5.10/1] – Types of test reports used in fire testing". Whilst the test data and classification provided within this short form report was obtained in a test conducted fully in accordance with the standards CEN/TS 1187:2012:Test 1 & CEN/TS 16459:2013, the presentation of the results in this short form report may not satisfy the requirements of those standards and EN ISO/IEC 17025:2005/AC:2006 & EN 13501 5:2016. The presentation of the results in this manner is made by agreement with the sponsor and use of the information herein for product assessment, approval or certification purposes will be restricted.

The full classification report No. **18910C** is available at **Viridian Solar**.

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Annex – fully detailed field of application and product details

**PRODUCT DETAILS**

Mechanical and Electrical specifications						
Model	PV16-	260P	270	270P	280	300
Thickness	mm	69				
Weight one solar panel	kg	21				
Dimensions	mm x mm	992 x 1640				
Peak Power	Wp	260	270	270	280	300
Module Efficiency	%	16,6	17,3	17,3	17,9	19,2
Number of cells		60	60	60	60	60
Cell Type (-crystalline silicon)		Poly-	Mono-	Poly-	Mono-	Mono-

**FIELD OF APPLICATION**

Direct field of application

- Range of pitches:  $\geq 20^\circ$
- Range of decks: A non-standard substrate according to CEN/TS 1187:2012 test 1. Supporting timbers (47 x 70 mm) placed every 50 cm (center-center). The battens are placed parallel with the roof pitch (as per BS 5534).

Extended field of application

➤ Layer 0: Integrated solar panel

Range of panels:	- PV16-260P - PV16-270 - PV16-300	PV16-270P PV16-280
Facing:	Low-iron glass	
Backing	PV Backsheet	
Thickness:	69 mm	
Weight of 1 solar panel:	21 kg	
Dimensions:	1640 x 992 mm	
Direction:	Portrait or landscape	
Fixation:	Mechanically fixed and installed with the respective flashings	

➤ Layer 1: Non-combustible roof tiles

Range of products:	Any non-combustible tile (A1 according to EN 13501-1)
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➤ Layer 2: Wooden battens

Dimensions:	25 x 50 mm
Density:	472 kg/m <sup>3</sup>

➤ Layer 3: PE vapour barrier

Thickness:	0,4 mm
Surface weight:	121 g/m <sup>2</sup>
Fixation:	Mechanically fixed onto the wooden battens every $\pm 40$ cm
Reaction to fire according to EN13501-1:	E,d2

➤ Layer 4: Supporting timbers

Dimensions:	47 x 70 mm
Density:	437 kg/m <sup>3</sup>