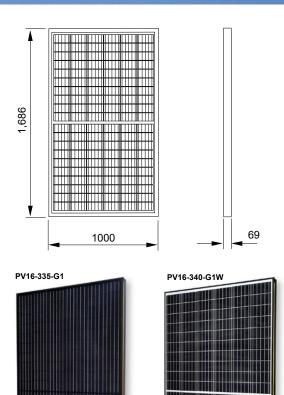
<u>Clearline</u> द्री fusion

G1 Solar Photovoltaic Panels



- Simple roof integration with clean, low-profile aesthetic for new build and retrofit
- Rapid installation times of less than 45 min/kWp easily achieved
- Compatible with the widest range of slate and tile including special fixings for different batten thickness
- Fitted during the normal roofing programme, enabling clarity of responsibility and safe working practices
- · Achieves highest fire rating and wind resistance without modifications to the roof



- Design resistance to ultimate loads includes a partial material safety factor of 1.0 Subject to a manufacturing tolerance of +/-3%.
- Based on aperture area. Nominal Operating Cell Temperature Electrical specification measured under standard test conditions: Irradiation 1 kW/m² with light spectrum AM 1.5 and a cell temperature of 25°C.
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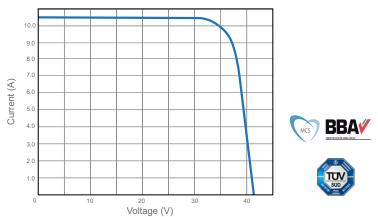
Mechanical Specification

Model		PV16	
Aperture Area	m²	1.622	
Width	mm	1,000	
Length	mm	1,686	
Thickness	mm	69	
Weight	kg	21.7	
Static roof loading (distributed)	kg / m ²	12.9	
Characteristic Wind Resistance	kPa	5.32	
Ultimate Design Load ¹	kPa	5.32	
Positive Design Load	IEC 61215	5.40	
Roofing System Fire Rating	EN 13501-5	B _{ROOF} (T1, T2, T3, T4)	
Power Warranty	% rated	90%10 years, 80% 25 years	
Product Warranty		10 years	
Standards		IEC61215, 61730, TUV, MCS05* , MCS12	

Electrical Specification

Model		PV16-335	PV16-340	
Peak Power ²	Wp	335	340	
Module Efficiency ³	%	20.7	21.0	
Number of Cells		60x2	60x2	
Maximum Power Voltage (Vmpp)	V	34.7	35.0	
Maximum Power Current (Impp)	А	9.7	9.7	
Open Circuit Voltage (V∞)	V	42.0	42.4	
Short Circuit Current (Isc)	А	10.3	10.4	
NOCT ⁴	°C	44.0		
Cell Type		Monocrystalline Silicon		
Power Temperature Coefficient	% / °C	-0.38		
Current Temperature Coefficient	% / °C	0.05		
Voltage Temperature Coefficient	% / °C	-0.30		
Maximum System Voltage	VDC	1,000		
Maximum Fuse Rating	А	20		
Safety Classification		Class II		
Electrical Connectors		Genuine Stäubli MC4 PV-KST4, PV-KBT4		

I-V Curves



Viridian

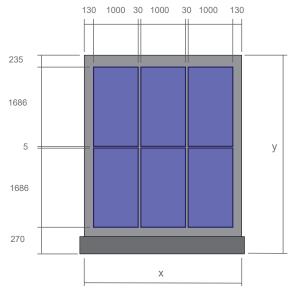
Clearline

Pitched Roof Integration

Sleek, low-profile integrated solar that replaces the roof covering for an improved aesthetic and for simple roof maintenance, now at similar cost to above-roof panels. Simple, beautiful, durable.

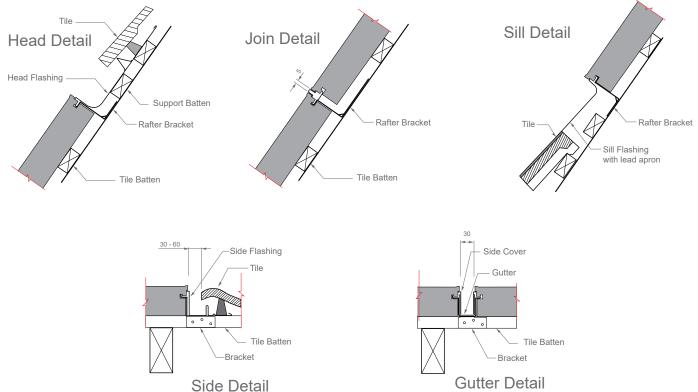
Solar never looked so good.





n x m

 $x = 260 + (m \times 1000) + ([m-1] \times 30)$ $y = 505 + (n \times 1686) + ([n-1] \times 5)$



Gutter Detail (joined flashings)

Viridian Solar, Atlas Building, 68 Stirling Way, Papworth, Cambridge CB23 3GY



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