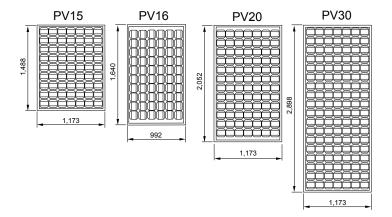
PV15/245 PV16/250 PV20/330 PV30/500 Solar Photovoltaic Panels

Clearline®PV



- Simple roof integration with clean, low-profile aesthetic for new build and retrofit
- Range of sizes can be joined or spaced apart on the
- Compatible with the widest range of roof coverings
- Fitted during the normal roofing programme, enabling clarity of responsibility and safe working practices
- Properly tested as a building material
- Combines seamlessly with Clearline heating panels



Also available







Clearline Solar heating panels



Pod PV

Mechanical Specification

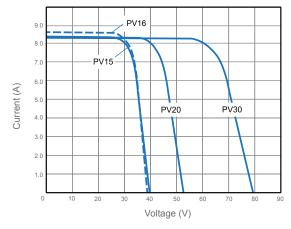
Model	PV	15/245	16/250	20/330	30/500	
Aperture Area	m²	1.5	1.6	2.1	3.0	
Width (across roof)	mm	1,173	992	1,173	1,173	
Height (up roof)	mm	1,488	1,640	2,052	2,898	
Thickness	mm	82	69	82	82	
Weight	kg	30.0	21.0	41.0	57.0	
Static roof loading (distributed)	kg/m²	17.2	12.9	17.0	16.8	
Characteristic Wind Resistance	kPa	3.4				
Ultimate Design Load 1	kPa	2.4				
Fire Rating to BS 476-3		AA				
Power Warranty	% rated	90%10 years, 80% 25 years				
Standards		IEC61215, 61730, TUV, MCS, BBA				

Clearline PV solar panels have been thoroughly tested, not only as energy generating equipment, but also as a building component and were the first solar pv panel to achieve a BBA certificate.

Electrical Specification

Model	PV	15/245	16/250	20/330	30/500	
Peak Power ²	Wp	245	250	330	500	
Module Efficiency ³	%	16.3	16.0	15.7	16.7	
Number of Cells		63	60	84	126	
Maximum Power Voltage (V _{mpp})	V	31.9	30.4	42.5	63.3	
Maximum Power Current (Impp)	Α	7.7	8.2	7.8	7.9	
Open Circuit Voltage (V₀c)	٧	39.6	38.0	53.0	79.5	
Short Circuit Current (Isc)	Α	8.4	8.7	8.4	8.5	
NOCT⁴	°C	44.6	45.0	44.6	44.6	
Cell Type		Monocrystalline Silicon				
Maximum System Voltage	VDC	1,000				
Power Temperature Coefficient	% / °C	-0.509	-0.450	-0.509	-0.509	
Current Temperature Coefficient	% / °C	0.043	0.060	0.043	0.043	
Voltage Temperature Coefficient	% / °C	-0.337	-0.340	-0.337	-0.337	
Safety Classification		Class II				

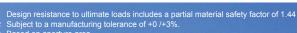
I-V Curves











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.

PV15/245 PV16/250 PV20/330 PV30/500 Solar Photovoltaic Panels

Clearline®PV

Pitched Roof Integration

Clearline solar panels are only 82mm thin and fit over tile battens with no modification to the roof structure. When integrated with rolling tiles, the panels finish flush with the tile surface. Connections are neatly tucked away behind and hidden from sight. The choice of four panel sizes, together with options to install either joined together or spaced apart on the roof, gives a wide range of options to integrate renewable energy and remain in harmony with the building design.

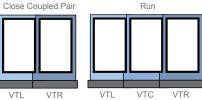














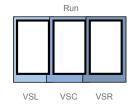
Natural and artificial slates thickness<10mm Pitch 20-60°





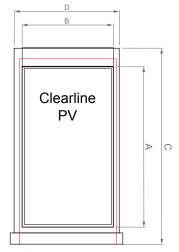
VSR

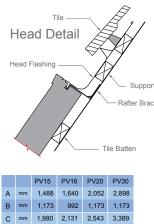
VSL

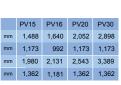


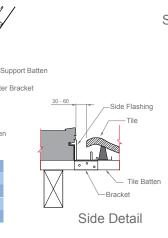
(joined flashings)

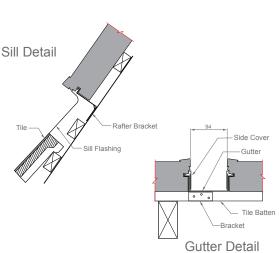
T Series Flashings



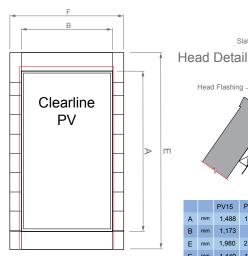


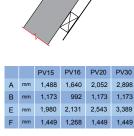






S Series Flashings





Head Flashing

