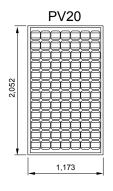
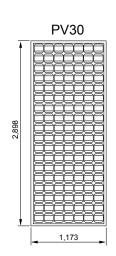
PV20/330 PV30/500 Solar Photovoltaic Panels

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











Pod PV

Mechanical Specification

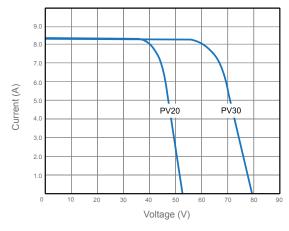
Model	PV	20/330	30/500
Aperture Area	m²	2.1	3.0
Width (across roof)	mm	1,173	1,173
Height (up roof)	mm	2,052	2,898
Thickness	mm	82	82
Weight	kg	41.0	57.0
Static roof loading (distributed)	kg/m²	17.0	16.8
Characteristic Wind Resistance	kPa	3.4	
Ultimate Design Load 1	kPa	2.4	
Fire Rating to BS 476-3		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	20/330	30/500
Peak Power ²	Wp	330	500
Module Efficiency ³	%	15.7	16.7
Number of Cells		84	126
Maximum Power Voltage (V _{mpp})	٧	42.5	63.3
Maximum Power Current (Impp)	Α	7.8	7.9
Open Circuit Voltage (Voc)	V	53.0	79.5
Short Circuit Current (Isc)	Α	8.4	8.5
NOCT⁴	°C	44.6	44.6
Cell Type		Monocrystalline Silicon	
Maximum System Voltage	VDC	1,000	
Power Temperature Coefficient	% / °C	-0.509	-0.509
Current Temperature Coefficient	% / °C	0.043	0.043
Voltage Temperature Coefficient	% / °C	-0.337	-0.337
Safety Classification		Class II	

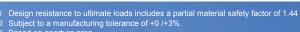
I-V Curves











spect to a meanture area.

minal Operating Cell Temperature

ctrical specification measured under standard test conditions: Irradiation 1 kW/m² with light spectrum AM 1.5 and a cell temperature of 25°C.

PV20/330 PV30/500 Solar Photovoltaic Panels

Clearline®PV

Pitched Roof Integration

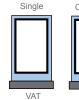
Clearline solar panels are only 82mm thin and fit over tile battens with no modification to the roof structure. When integrated with rolling tiles, the panels finish flush with the tile surface. Connections are neatly tucked away behind and hidden from sight. The choice of panel sizes, together with 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.



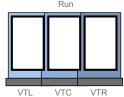




T Series Tiled Roof Interlocking and plain tiles thickness>19mm Pitch 20-60°







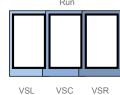
S Series Slate Roof

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

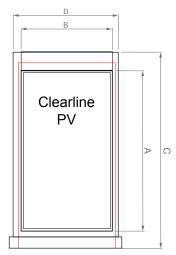


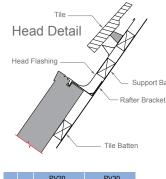


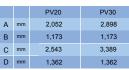
Sill Flashing

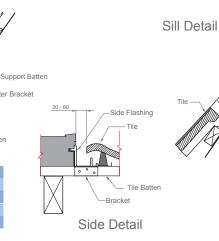


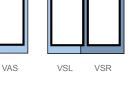
T Series Flashings

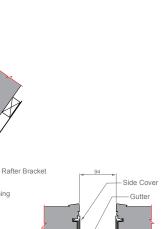












Gutter Detail (joined flashings)

Tile Batter

S Series Flashings

