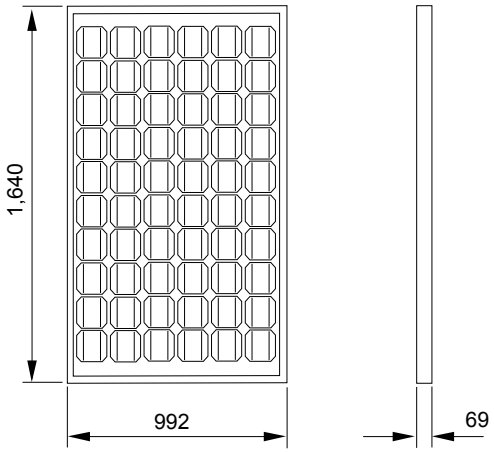
PV16
Solar Photovoltaic Panels

Clearline fusion

- Simple roof integration with clean, low-profile aesthetic for new build and retrofit
- Rapid installation times of less than 1hour/kWp easily achieved
- Compatible with the widest range of slate and tile including special fixings for Scottish slate roofs
- 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



Mechanical Specification

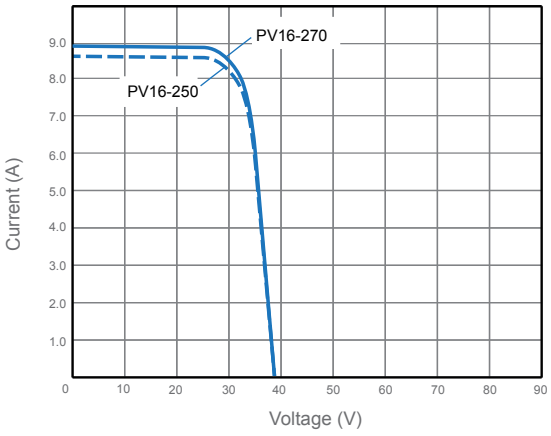
Model		PV16
Aperture Area	m^2	1.6
Width (across roof)	mm	992
Height (up roof)	mm	1,640
Thickness	mm	69
Weight	kg	21.0
Static roof loading (distributed)	kg / m^2	12.9
Characteristic Wind Resistance	kPa	5.32
Ultimate Design Load [1]	kPa	5.32
Fire Rating to BS 476-3		AA
Power Warranty	% rated	90%10 years, 80% 25 years
Standards		IEC61215, 61730, TUV, MCS, MCS12, BBA

Clearline PV solar panels have been thoroughly tested, not only as energy generating equipment, but also as a building component.

Electrical Specification

Model	PV	16-250	16-270
Peak Power [2]	Wp	250	270
Module Efficiency [3]	%	16.0	17.3
Number of Cells		60	60
Maximum Power Voltage (V_{mpp})	V	30.4	31.7
Maximum Power Current (I_{mpp})	A	8.2	8.5
Open Circuit Voltage (V_{oc})	V	38.0	38.4
Short Circuit Current (I_{sc})	A	8.7	9.0
NOCT [4]	°C	45.0	
Cell Type		Monocrystalline Silicon	
Maximum System Voltage	V_{DC}	1,000	
Power Temperature Coefficient	% / °C	-0.450	
Current Temperature Coefficient	% / °C	0.060	
Voltage Temperature Coefficient	% / °C	-0.340	
Safety Classification		Class II	

I-V Curves



Also available

Clearline PV
Large format PV panels

Clearline
Solar heating panels

Pod PV

1 Design resistance to ultimate loads includes a partial material safety factor of 1.0
2 Subject to a manufacturing tolerance of +0 /+3%.
3 Based on aperture area.
4 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.

viridian solar ®

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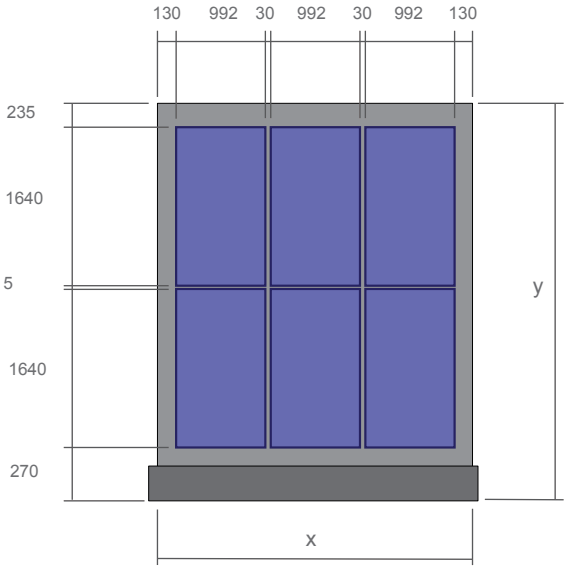
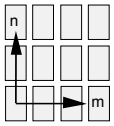
Pitched Roof Integration

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.

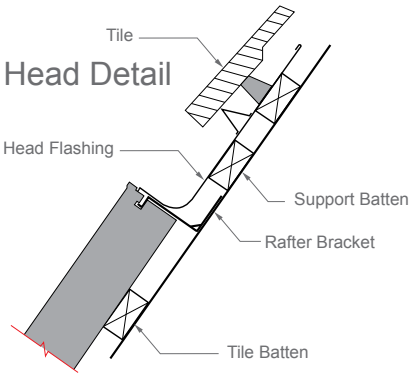


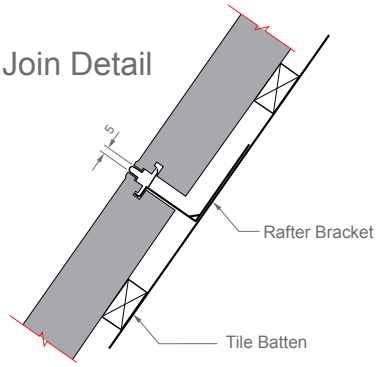
n x m

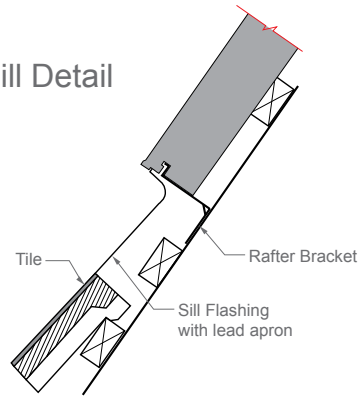


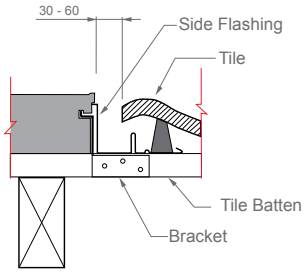
x = 260 + (m x 992) + ([m-1] x 30)

y = 505 + (n x 1640) + ([n-1] x 5)

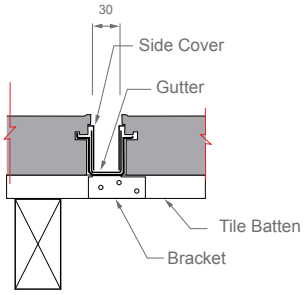








Side Detail



Gutter Detail
(joined flashings)

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

01480 831 501
www.viridiansolar.co.uk

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