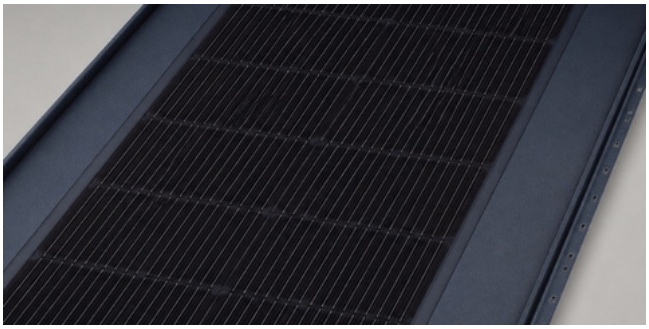
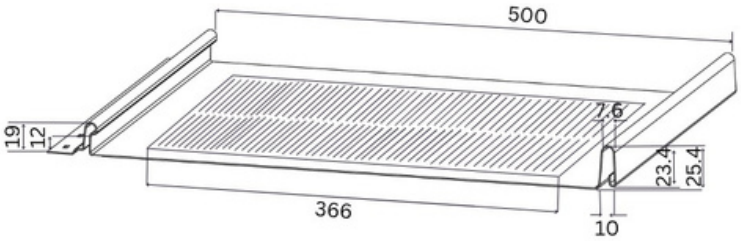
EasySeam® Solar System Data Sheet

Using Crystalline Silicon (c-Si) Solar PV module

Integrated Solar PV certified to IEC 61215, IEC 61730-1 and IEC 61730-2
Fully supported metal standing seam in accordance with EN14783





Key features

- Lightweight Solar PV laminate modules factory bonded to EasySeam Roof panels.
- Each panel electrically tested before leaving Vertix Systems manufacturing site.
- Solar PV available in a range of standard module lengths to meet required KW output.
- Fully installed weight of less than 11kg per square metre.
- Integrated PV laminate sits discretely within the pan of the EasySeam Roof panel.
- Full adhesion between Solar PV laminate and standing seam panel meaning no secondary atmospheric chamber and associated heat transfer and no cavity for rodents or birds to nest in.
- Solar PV laminate uses multiple bypass diode design to protect the solar modules and ensure they can work effectively in low light conditions and shaded areas.
- Uses MCS certified Solar PV laminate capable of achieving a minimum output of 146W/M^2.
- Cell efficiency of up to 24%.
- Solar PV laminate has a 10 year product warranty and 25 performance warranty. This guarantees minimum power output performance of 90% for the first 10 years and 80% for following 15 years.
- Available with 25 year Confidex® Home Guarantee from Tata Steel, covering appearance and durability of Colorcoat Prisma® pre-finished steel used in System.
- Suitable for roof pitches between 5 and 45 degrees.
- EasySeam Roof panels and Solar PV laminate are made in the UK.
- Tested in accordance with CEN:TS 1187, achieving BRoof (t4) rating for external fire performance of roofs and roof coverings.

Solar PV module technical characteristics

366mm width high efficiency semi flexible crystalline silicon (c-Si) Solar PV module with a strong reinforcing top layer.

Module length	Peak Watt per module
1209mm	65
1716mm	95
2223mm	130
2730mm	160
3237mm	190
3744mm	225
4251mm	255
4758mm	290

Two string modules			
	Unit	**Min**	**Max**
Max power voltage Vmp	V	6.49	29.21
Short circuit current Isc	A	10.63	10.63
Open circuit voltage VOC	V	7.88	35.45
Max series fuse rating	A	20	
Max system voltage	V	1000	
Cell efficiency (encapsulated)	%	22.4	
Module operating range	C°	-40	+85
External fire in accordance with CEN:TS 1187	BRoof(t4)		

Standard test conditions: 1000W/m^2 , 25 °C cell temperature, AM 1.5 spectrum.

EasySeam roof panel technical characteristics

Standing seam panel with snap and lock system to enable quick and easy installation.

Profile	Flat	**Seam height**	25mm
Panel width	500mm	**Material**	Pre-finished steel
Panel length	Up to 12.5 metres	**Gauge**	0.675mm

Declared performance using Tata Steel Colorcoat Prisma®

Steel Gauge/Galvanised detail/Yield Strength	Coating	Performance	Harmonised technical specification
0.675mm/ZA255/S280	65 micron polyurethane	**External fire:** All pitches BRoof (t4)	European Commission Decision 200/55/EC EN13501-5:2016
		Water permeability: impermeable in absence of holes- visual inspection	EN14783:2013
		Water vapour and air permeability: impermeable in absence of holes- visual inspection	EN14783:2013
		Dimensional change: 0.36mm per linear metre	Expansion coefficient $12 \times 10^{-6} \times K^{-1}$ EN 14783:2013

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