

DATASHEET

Solar Full Roof™

Designed to incorporate top solar products into your roof while preserving the aesthetics of your beloved home.



Solar Panel Technical Data (STC)

BIPV Panel	Solar Full Roof™ Plus					Solar Full Roof™ Nordic			
Power output (Wp)	385	390	395	400	405	400	410	420	430
Open circuit voltage VoC (V)	40.38	40.69	41.00	41.30	41.60	58.9	59.2	59.4	59.7
Short circuit current Isc (A)	12.15	12.21	12.27	12.34	12.40	8.80	8.84	8.88	8.91
Maximum power voltage Vmpp (V)	33.62	33.88	34.14	34.39	34.64	48.8	49.4	50.0	50.5
Maximum power current Impp (A)	11.46	11.52	11.58	11.64	11.70	8.20	8.30	8.40	8.52
Module efficiency (%)	20.0	20.3	20.5	20.8	21.1	20.7	21.2	21.8	22.3
Cell type	Monocrystalline					Monocrystalline			
Number of cells	120					80			
Total weight of BIPV panel (kg)	23.93					24.4			
Dimensions	1754 x 1096 x 30 mm (1.92 m ²)					1730 x 1118 x 30 mm (1.93 m ²)			
Snow load	5400 Pa (550 kg per/m ²)					7000 Pa (713 kg/m ²)			
Warranty	25-year linear output warranty					25-year linear output warranty			
Certificates	IEC 61215, IEC 61730 ISO 9001:2015, ISO 14001:2015, ISO 45001:2018					IEC 61215, IEC 61730, UL 61730 ISO 9001, ISO 14001, ISO 45001, IEC 62941			

Solar Full Roof™ Specifications (STC)

Warranty	10-year product & 25-year power output
Roof pitch	18-90°. <18° with SBS/PVC underlay
Temperature range	-30°C to 120°C
Compatible roof windows	Velux, Roto, Keylite, Fakro
Compatible roof materials	Concrete tile, metal, fiber cement, slate, shingle
Inverter	Required to use inverter with AFCI
Roof underlay	Solarstone recommends Riwega USB Protector Head FH 240 or similar

Dummy Panels

Size	1:1 or 1:2 PV panel size or custom
Safety	Fireproof, electrostatic proof
Weight	7.8 kg/m ²
Lacquering	Coil Coating, Fluorocarbon based (e.g. PVDF)
Total thickness	30 mm
Temper of aluminum layers	Aluminum alloy (AlMg) H42 acc. EN 573-3
Tensile strength of aluminum	≥ 125 N/mm ²

Components

Starter clamp
Product code: SCO-432.3050S



Row clamp
Product code: SCO-432.3050RR

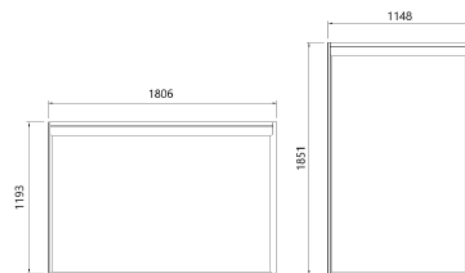


PV panel coupled with Click-on™ framing kit
Product code (landscape): SFR-A32311.01
Product code (portrait): SFR-A32321.01

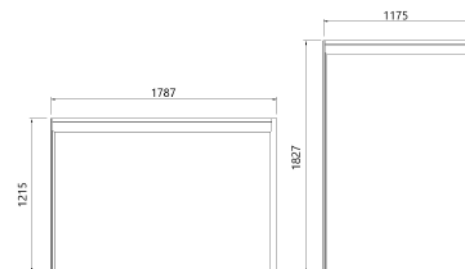


Drawings

Solar Full Roof™ Plus
PV panel with Click-on™ frame



Solar Full Roof™ Nordic
PV panel with Click-on™ frame



Materials

- Powder coated stainless steel AISI 304 clamps
- Coated and anodized aluminium profiles EN AW 6060F22 T6
- Top profile PVC is extruded of recycled plastic material
- Minimal waste in production line and at the end of the product life.

Tests & Certification

- IEC 61215 & 61730
- Wind: EN 14437:2004 (2400 Pa)
- Fire: Broof(t1)(t2) & Class C (UL790)
- Snow load: 5400 Pa

