

## TECHNICAL SPECIFICATIONS

# Solar Full Roof™

The most efficient method to incorporate top solar products into your roof while preserving the aesthetics of your beloved home.

Durable building-integrated rooftop solar modules replacing traditional roofing.

Standard size PV panels and aluminium composite panels (ACP) converted into waterproof roofing system.



inter  
**solar**  
award  
  
2022  
FINALIST

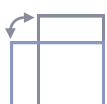


## APPLICATION

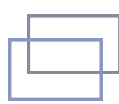
- New-builds & renovation projects
- Residential and public buildings
- Production & ancillary facilities
- Carports
- Facades

## ADVANTAGES

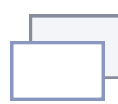
- 2-in-1 PV system for portrait & landscape installations
- Passive dummy modules for roof perimeter & obstacles
- Most popular Tier 1 PV panels
- Easy onsite assembly & installation



Portrait  
Landscape



Passive  
Active



Eco  
Premium



Lasting  
Value

## SOLAR FULL ROOF™ SPECIFICATIONS

Warranty	10-year product & 25-year power output
Roof pitch	18-90°. <18° with SBS/PVC underlay
Temperature range	-30°C to 100°C
Compatible roof windows	Velux, Roto, Keylite, Fakro
Compatible roof materials	Concrete tile, metal, fiber cement, slate, shingle

## TESTS & CERTIFICATION



- Electrical: IEC 61215 & 61730
- Wind: EN 14437:2004
- Fire: B<sub>roof</sub>(t1)(t2)
- Snow load: 5400 Pa

## COMPONENTS

### Starter 1st row clamp

Product code: SCO-432.3050S



### Regular clamps

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



### Barge, valley, ridge, transition flashings



### Ridge and eave ventilation profiles



## NON-ACTIVE MODULES

Size	1:1 or 1:2 PV panel size or custom
Safety	Fireproof, electrostatic proof
Weight	7.8 kg/m <sup>2</sup>
Features	Water-, fire- and electrostatic proof, anticorrosive
Lacquering	Coil Coating, Fluorocarbon based (e.g. PVDF)
Total thickness	30 mm
Temp resistance	-40 to +80 °C
Thermal conductivity	λ3
Temper of aluminum layers	Peraluman alloy (AlMg) H42 acc. EN 573-3
Tensile strength of aluminum	≥ 125 N/mm <sup>2</sup>

Non-active module



Non-active module with Click-on®



## SOLAR ROOF CALCULATOR

Designed for BIPV



Online tool helps automate layout generation and facilitates dimensioning of patented Solarstone® PV systems. Ask sales representative for access.

app.solarstone.com

## SOLAR PANEL TECHNICAL DATA

### Manufacturer

Power output

Cell type

Number of cells

Module efficiency

Weight

Dimensions

Snow load

Warranty

Certificates

### Risen

390 W

Monocrystalline

120

20.3%

21 kg

1754 x 1096 x 30mm

5400 Pa (550 kg per panel)

25-year linear output warranty

IEC 61215, IEC 61730

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

### JA Solar

365-370 W

Monocrystalline

120

19.6-19.9%

20.7 kg

1769 x 1052 x 35mm

5400 Pa (550 kg per panel)

25-year linear output warranty

IEC 61215, IEC 61730

ISO 9001:2015

ISO 14001:2015

ISO 45001:2018

IEC TS 62941:2016

## 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.
- ~100% recyclable

