

SOLARSTONE



Solar Full Roof™

BIPV module 430W FRS/SND EU-G2.5-3535-ABC N-type Bifacial

Solar Full Roof transforms the entire roof into a seamless solar surface. With clean, modern lines and integrated weatherproofing, it delivers maximum efficiency, durability, and beauty - redefining the roof as both a power source and an architectural statement.

Peak Power
430_{Wp}
~215 W/m²

Roof.Design.Power.

PRESERVE ROOF INTEGRITY

No drilling into rafters, preserving structural integrity and lasting weatherproofing.

FAST & EFFECTIVE INSTALLATION

Follows traditional roofing practices, allowing installation by a single roofing team.

LIGHTWEIGHT ON CONSTRUCTION

13.3 kg/m² lightweight 2-in-1 solar roofing lowers structural load.

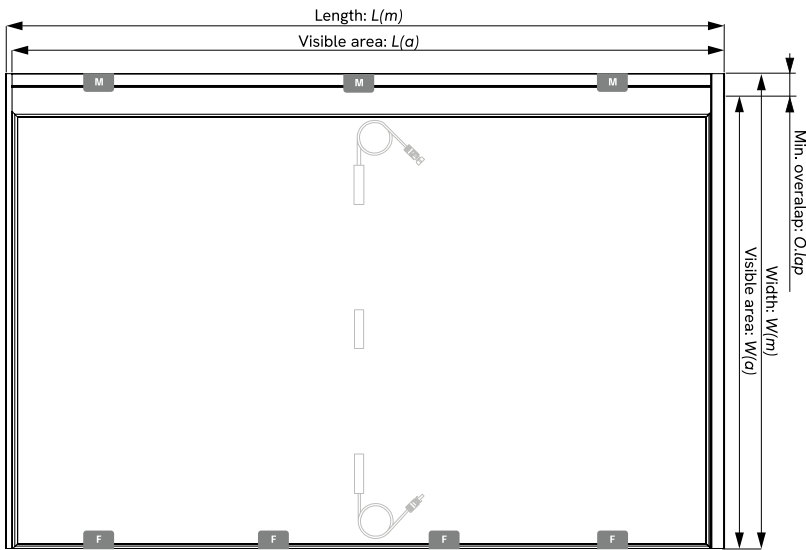
EASY UPGRADE TO A/A+ ENERGY CLASS

Achieve A/A+ energy class without costly upgrades or design compromises.

FOR NEW BUILDS AND ROOF REPLACEMENTS

Cost-effective solar roofing for new construction or roof upgrades.



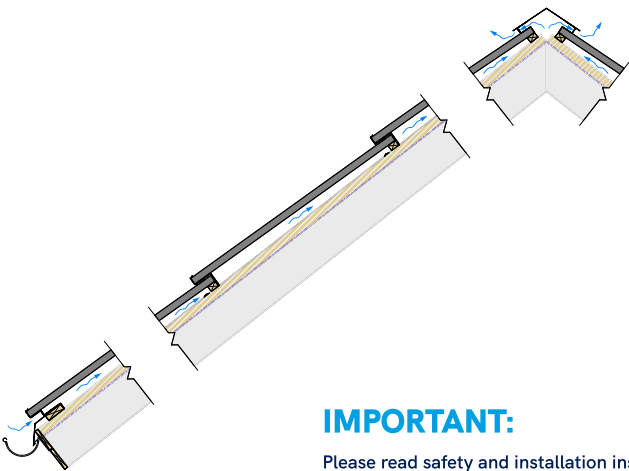


WORKING CONDITION	
Operating temperature	-40°C to +85°C
Mechanical loads (design load)	Snow: 5400 Pa (~550 kg/m ²)
	Wind: 2400 Pa (~224 kg/m ²)
Impact Resistance	HW 3 hailstones Ø 25 mm at 23.0 m/s (83 km/h)
Minimum Roof Slope	18 degrees
MECHANICAL SPECIFICATIONS	
Glass	Front - 2.0 mm solar glass with ARC Back - 2.0 mm heat strengthened glass
Frame	Anodized Aluminum frame (Black, RAL9005)
PATENTS, CERTIFICATIONS & WARRANTY	
Patent	EP21736040A by SOLARSTONE
Fire Class Certification	EN 13501 -2018: Broof ^(t1) EN 13501 -2018: Broof ^(t2)
Wind Driven Rain	CEN/TR 15601:2012: Class B
EN Directives	IEC EN61730 : Safety Qualification IEC EN61215 : Design Qualification
Performance Warranty	30 years, on the 89% of the min. performance
Product Warranty	25 years, >40 -years lifespan
Designed & assembled in	Estonia, European Union (EU)

ELECTRICAL DATA	
Peak Power (P_{max})	430 Wp 215 Wp / m ²
PV Module	FuturaSun Silk® Nova Duetto All Black
PV Cells	108 monocrystalline half-cut MBB N-type bifacial cells 182 x 91 mm
PV Module Efficiency	22.0%
Maximum Reverse Current (I_{r})	30 A
Maximum System Voltage (V)	1500 V
Open circuit voltage (V_{oc})	38.44 V
Short circuit current (I_{sc})	14.25 A
Maximum power voltage (V_{mp})	31.86 V
Maximum power current (I_{mp})	13.50 A
Number of bypass diodes	3
Junction box	SY-898: IP-68, Class-II, DC-1500V
Junction box cable	110 cm; 4.0mm ²
Electrical connector	Mc4 Connector (Xtong Tech, PV-XT101.2)

MEASUREMENTS						
Model	External dimension	Weight	Visible area	Overlap	First	Middle
LND	KIT-A: 1791 x 1195 x 35 mm	~28 kg 13 kg / m ²	1754 x 1140 mm	55 mm	1170 mm	1140 mm
	KIT-B: 1791 x 1245 x 35 mm		1754 x 1170 mm	75 mm	1200 mm	1170 mm
	KIT-C: 1791 x 1295 x 35 mm		1754 x 1220 mm	75 mm	1255 mm	1760 mm
PRT	KIT-A: 1203 x 1783 x 35 mm	~28 kg 13 kg / m ²	1166 x 1730 mm	53 mm	1760 mm	1730 mm
	KIT-B: 1203 x 1833 x 35 mm		1166 x 1760 mm	53 mm	1790 mm	1760 mm
	KIT-C: 1203 x 1883 x 35 mm		1166 x 1810 mm	53 mm	1845 mm	1810 mm

MODEL	SKU CODE	PACKAGE
Landscape BIPV module KIT-A	SFR-A121211.V1	PLL: 24 pcs; 1850 x 1100 x 1400; 800 kg
Landscape BIPV module KIT-B	SFR-B121211.V1	PLL: 24 pcs; 1850 x 1100 x 1400; 800 kg
Landscape BIPV module KIT-C	SFR-C121211.V1	PLL: 24 pcs; 1850 x 1100 x 1400; 800 kg
Portrait BIPV module KIT-A	SFR-A121221.V1	PLL: 24 pcs; 1850 x 1100 x 1400; 800 kg
Portrait BIPV module KIT-B	SFR-B121221.V1	PLL: 24 pcs; 1850 x 1100 x 1400; 800 kg
Portrait BIPV module KIT-C	SFR-C121221.V1	PLL: 24 pcs; 1850 x 1100 x 1400; 800 kg



IMPORTANT:

Please read safety and installation instructions before using the product. Use only underlayment membranes specifically designed for PV panel installations, providing watertightness, UV resistance, and suitability for temperatures from -40 °C to +120 °C, in accordance with the EN 13859-1:2014 standard. Use only with inverters with Arc-Fault Circuit Interrupter (AFCI).



YouTube
Watch the
installation of
Solar Full Roof™

Roof.
Design.
Power.

Member of:

