

SOLARSTONE



Solar Tiled Roof™

BIPV module 105W/HC27 G2 FRS 21/Mo 30/Tu 30/Be

Seamlessly integrates tiled roofs, preserving classic aesthetics with a nearly invisible design while producing clean solar power. Each module replaces six traditional tiles, creating a smooth, uninterrupted transition that blends naturally with buildings featuring traditional architecture.

Peak Power

105_{wp}
~185 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

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

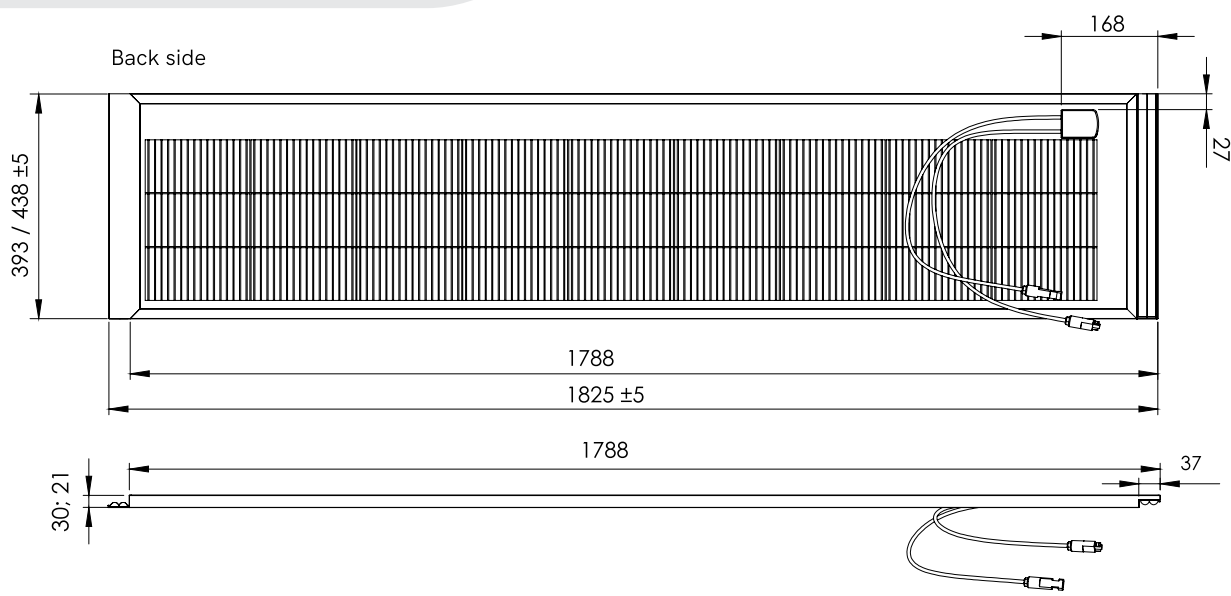
EASY UPGRADE TO A/A+ ENERGY CLASS

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

SEAMLESS ARCHITECTURAL FIT

From heritage sites to modern buildings, a classic roof that blends in everywhere.





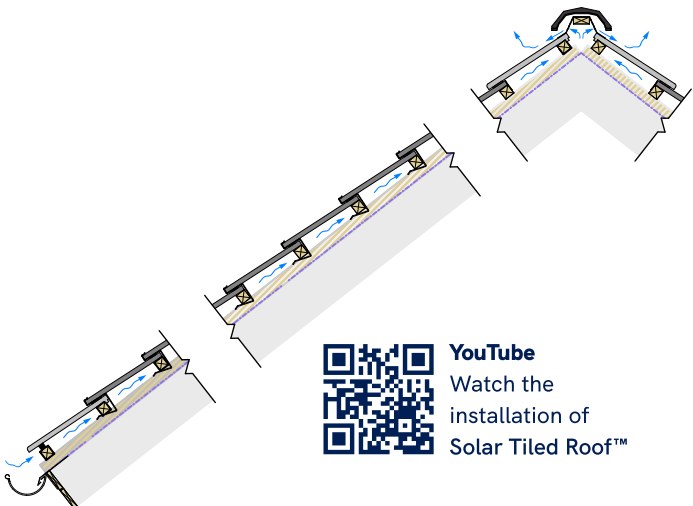
ELECTRICAL DATA	
BIPV Module Peak Power (P _{max})	105 Wp 185 Wp / m ²
Cells	27x Monocrystal Half -Cut N-type Bifacial 182x91mm
BIPV Module Efficiency	15.2 %
Maximum Reverse Current (I _R)	15 A
Maximum System Voltage (V)	1000 V
Open circuit voltage (V _{oc})	20.12 V
Short circuit current (I _{sc})	6.58 A
Maximum power voltage (V _{mpp})	16.80 V
Maximum power current (I _{mpp})	6.25 A
Number of bypass diodes	1
Junction box	SY-898: IP-68, Class-II, DC-1500V
Junction box cable	60 cm; 4.0mm ²
Electrical connector	Stäubli MC4 Evo (PV -KBT4/6II-UR; PV-KST4/6II-UR)

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	14 degrees

MECHANICAL SPECIFICATIONS	
External dimensions	21/Mo: 1825 x 393 x 21 mm ±5mm 30/Tu: 1825 x 438 x 30 mm ±5mm 30/Be: 1825 x 393 x 30 mm ±5mm
Visible area dimensions	1790 x 325 -375 mm ~0.55 m ²
Weight	~10 kg/pcs ~13.5 kg/m ²
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	EP3319228A1 by Solarstone
Fire Class Certification	EN 13501 -2018: Broof ⁽¹⁾ EN 13501 -2018: Broof ⁽²⁾
Wind Driven Rain	CEN/TR 15601:2012: Class B
EN Directives	IEC EN61730 : Safety Qualification IEC EN61215 : Design Qualification
Performance Warranty	25 years, on the 89% of the min. performance
Product Warranty	20 years, >40 -years lifespan
Designed & assembled in	Estonia, European Union (EU)

MODEL	SKU CODE	PACKAGE
Monier Teviva Cisar; Teviva Lumino Benders Palema	21/Mo: STR21MO105WC27	PLL: 100 pcs 1950 x 1100; 1100 kg
Monier Turmalin	30/Tu: STR30TU105WC27	PLL: 80 pcs 1950 x 1100; 850 kg
Benders Carisma; Palema	30/Be: STR30BE105WC27	PLL: 80 pcs 1950 x 1100; 850 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).

Roof.
Design.
Power.