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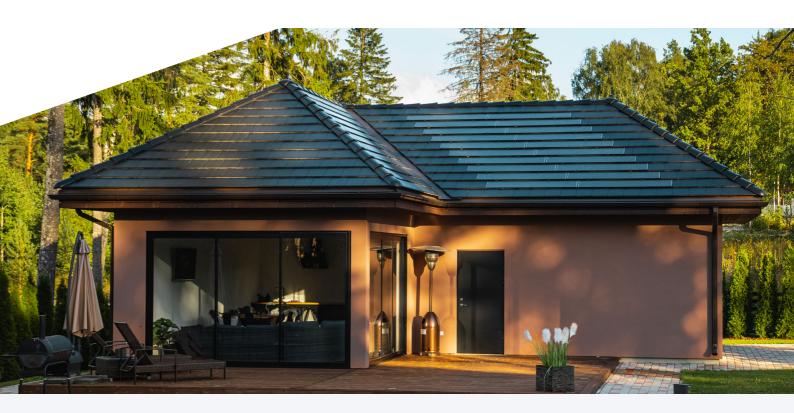
TECHNICAL SPECIFICATIONS

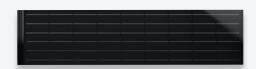
Solar Tiled Roof™

90 W and 108 W Modules

Premium in-roof solar system

With Solar Tiled Roof™, 5 or 6 roof tiles get replaced by 1 solar module with a guaranteed seamless transition.





APPLICATION

- New-builds & renovation projects
- Residential and public buildings
- Facades
- Canopies and ancilliary structures
- Historic buildings where on-roof solutions are not permitted

ADVANTAGES

- Easy-to-mount
- Aesthatically attractive
- Weather-proof
- No expensive fittings required
- High static load rating
- 10-year warranty for defects
- 25-year warranty for output
- Compatibility with extensive selection of concrete/clay tiles

		Ample tile
		compatibility

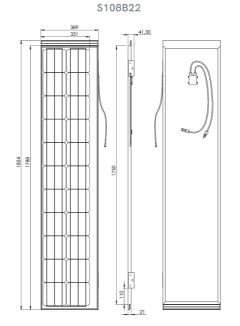




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DRAWINGS

S90B30 331 530 493



MATERIALS & TESTS

- IEC 61215 & 61730
- B_{roof}(t1)(t2)
- Black aluminum frame
- Monocrystalline silicone cells
- Prismatic 3,2mm glass
- Flash testing to ensure rated level of output
- Lead-free solder protects health and the environment
- Utility-patented solution (EPO)
- Snow load 4900 Pa (500 kg/m²)
- ~100% recyclable 🖒









MECHANICAL SPECIFICATIONS

Manufacturer Solarstone Model name (main) Model name (variation) Cell type Number of cells Weight (kg) 1 diode. IP65 Junction box Dimensions (mm) - main

Dimensions (mm) - variation

Solarstone STR21MO90WC18 STR21MO108WC22 STR30BE90WC18 STR30TU108WC22 Monocrystalline, Monocrystalline, 156 x 156mm 156 x 156mm 22 8.2 and 8.5 1 diode, IP65 1530 x 395 x 21 1824 x 389 x 21 1530 x 395 x 30 1824 x 389 x 30

SOLAR ROOF CALCULATOR

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



app.solarstone.com

ELECTRICAL SPECIFICATIONS

Maximum power rating (Pmax)	90 ± 3%	108 ± 3%
Tolerance of max power rating	± 3%	± 3%
Power temperature coef. (°C)	-0.414%	-0.414%
Open circuit voltage (Voc)	$11.9 \pm 5\%$	$14.1\pm5\%$
Short circuit current (Isc)	$9.3 \pm 5\%$	$8.7 \pm 5\%$
Maximum power voltage (Vmp)	$11.2 \pm 5\%$	$12.6 \pm 5\%$
Maximum power current (Imp)	$9.6 \pm 5\%$	$8.6 \pm 5\%$
Maximum system voltage (V)	600	600
Fuse rating (A)	12	12
Module efficiency	19%	19%
Output terminal	MC4	MC4
Fire rating	Class C	Class C

INSTALLATION CLAMPS & ACCESSORIES

90 W installation clamps

(suitable for 30x50mm battens) Product code: STR-402.BE3050R Product code: STR-402.MO2150R

108 W installation clamps

(suitable for 21x50mm battens) Product code: STR-402.MO2150R Product code: STR-402.TU3050R



90 W installation Nordic clamps

(suitable for 30x36mm battens) Product code: STR-402.BE3036R Product code: STR-402.MO2136R



(suitable for 21x36mm battens) Product code: STR-402.MO2136R Product code: STR-402.TU3036R



TILE COMPATIBILITY AND BATTEN SPACING

Roof tile model	Batten spacing	Module compatibility
Benders Carisma	340350	90 W with 30 mm frame
BMI Monier Turmalin	355380	108 W with 30 mm frame
BMI Monier Evo, Teviva, Tegalit	335340	90 W & 108 W with 21 mm frame

Plastic L-profile (38 \times 38 \times 1 mm) or 3 x 30 polyethylene foam sealing tape Installed on the top row to protect module glass and frame from roof tile. Read more from installation manual.

