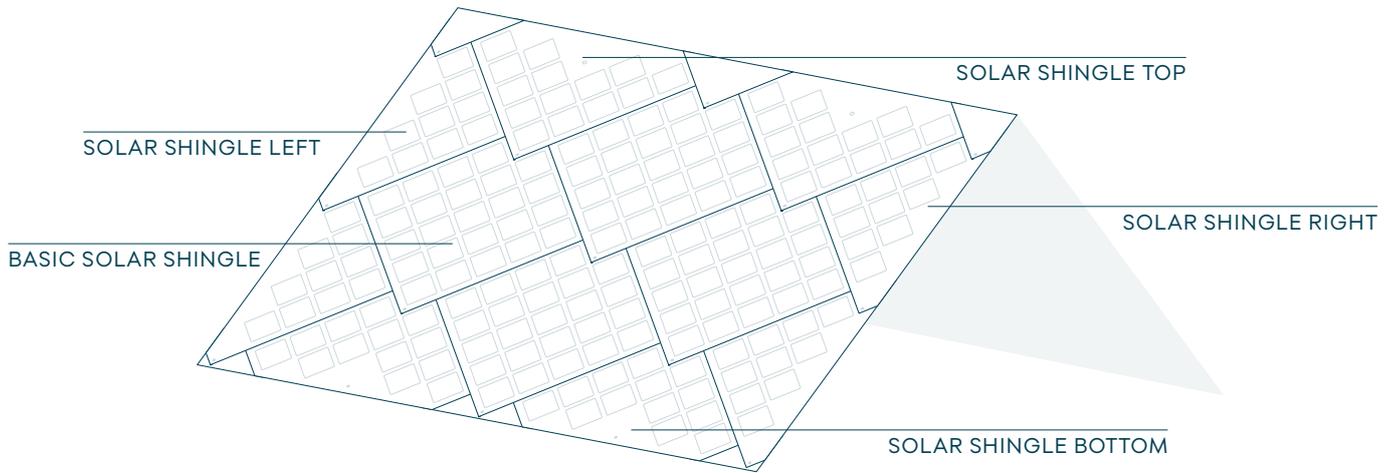




# SUNSTYLE® SOLAR ROOF

## TECHNICAL DATA



### GENERAL CHARACTERISTICS

Dimension basic shingles	870 × 870 mm
Glass properties	Transmission optimized solar glass (ESG)
Glass thickness	6 mm
Solar cell type	Monocrystalline silicon cells
Laminate structure	Glass   EVA   Cells   EVA   Back sheet
Junction box	Multi-Contact or equal
Bypass diode	One diode per shingle
Connection cable	Solar cable 4 mm <sup>2</sup> , lenght 800 mm each
Connector	Multi-Contact (MC4) or equal
Weight	19.5 kg/m <sup>2</sup>
Substructure	Wooden slats or steel tubes
Temperature range	-40°C to +85°C
System power	Up to 162 Wp/m <sup>2</sup>

### QUALITY AND WARRANTY

Product guarantee	10 years
Performance guarantee	10 years at 90% of the nominal output 25 years at 80% of the nominal output
Quality and Certification	IEC 61215 IEC 61730 (protection class II)
Fire safety	DIN-EN 13501-5
Hail resistance class	HW 4 (withstands 40 mm Ø hailstones)
Certified pressure load	5400 N/m <sup>2</sup>
Certified pressure load alpine	15400 N/m <sup>2</sup>
Accessibility	Can be accessed without any guarantee restrictions
Watertightness	Min. slope 3° (cf. notice sheet: requirement roof-buildup)

### ELECTRICAL PROPERTIES AT STC (1000 W/m<sup>2</sup>, 25°C and AM 1,5)

Type of solar shingle	BASIC SHINGLE	SHINGLE TOP	SHINGLE BOTTOM	SHINGLE LEFT	SHINGLE RIGHT
Nominal output	108 Wp	63 Wp	58 Wp	45 Wp	45 Wp
Voltage Umpp	12.7 V	7.4 V	6.9 V	5.3 V	5.3 V
Current Impp	8.5 A	8.5 A	8.5 A	8.5 A	8.5 A
Open circuit voltage Uoc	15.9 V	8.8 V	8.2 V	6.3 V	6.3 V
Short circuit current Ioc	9.1 A	9.1 A	9.1 A	9.1 A	9.1 A
Maximum system voltage	1000 V DC	1000 V DC	1000 V DC	1000 V DC	1000 V DC
Reverse current overload	18 A	18 A	18 A	18 A	18 A
Tolerance nominal output	±3%	±3%	±3%	±3%	±3%

### TEMPERATURE COEFFICIENTS

Temperature coefficient voltage (Uoc)	-0,3%/K
Temperature coefficient nominal output (Pmpp)	-0,4%/K
Temperature coefficient short circuit current (Isc)	+0,05%/K

### SYSTEM EXTENSIONS

Customizable SUNSTYLE® shingles	Compound plates
Snow stopper	Stainless steel, black
Alpine substructure	Wood

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