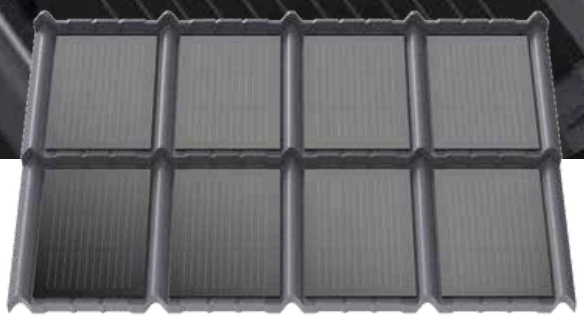
electrotile

eTile Classic

Technical Sheet

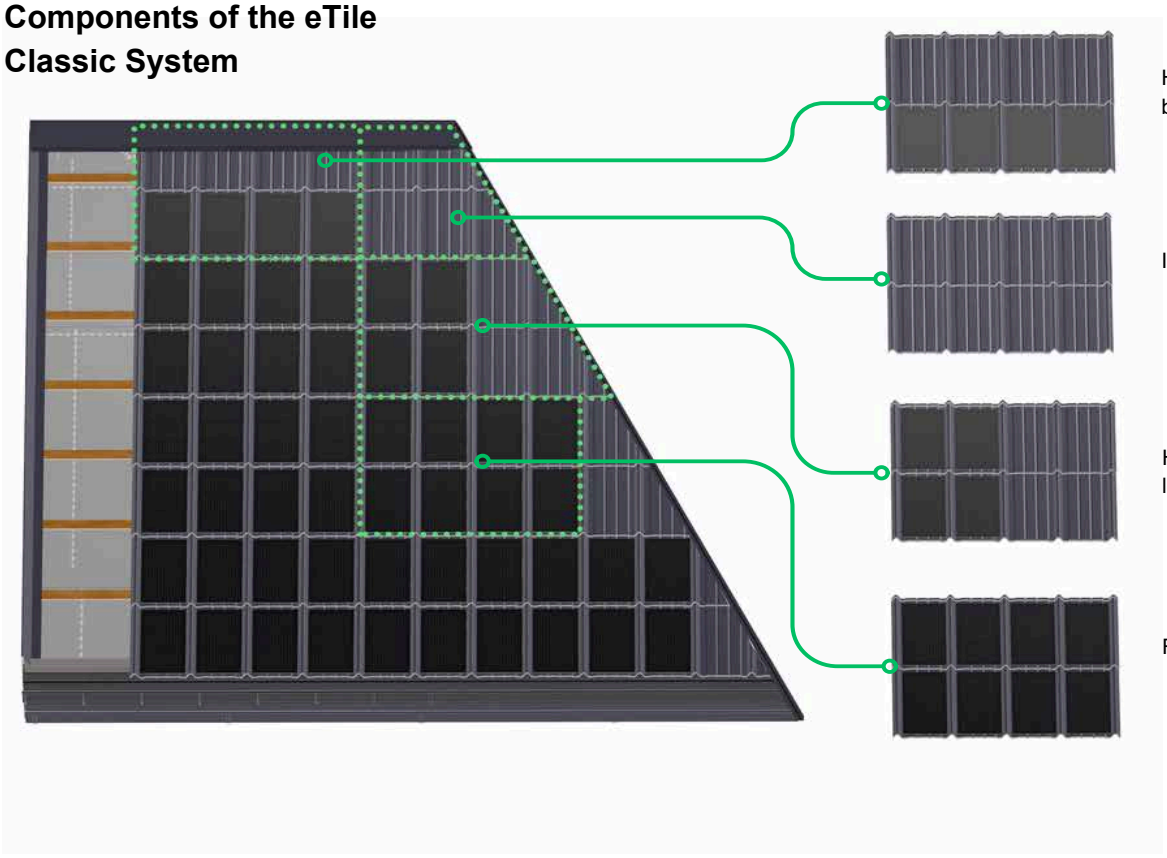


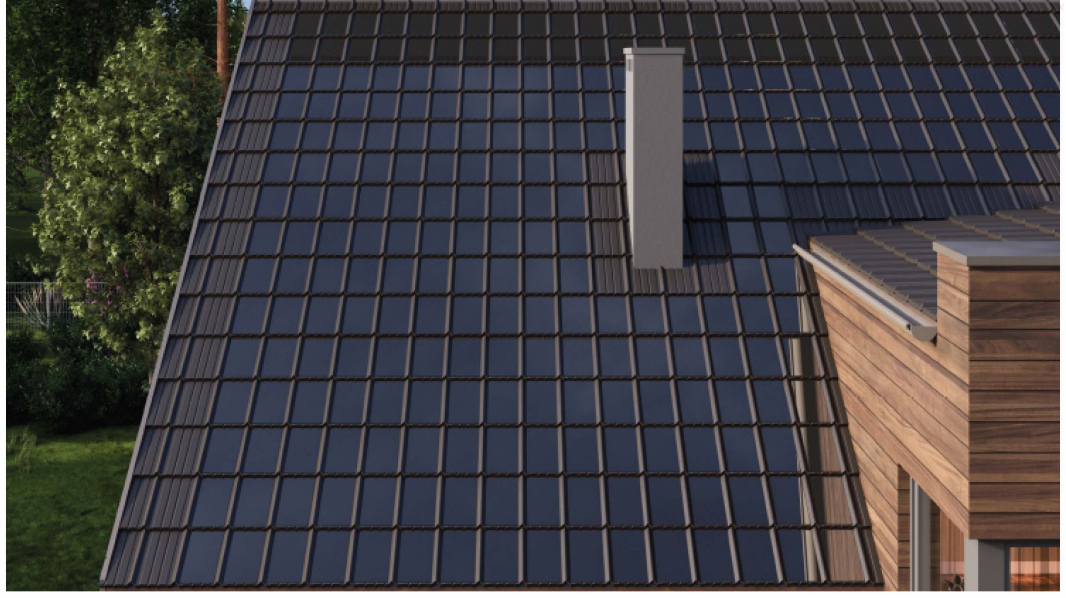
eTile Classic

It is our own modular metal roof tile with integrated photovoltaic panels – a 2-in-1 solution for those who appreciate timeless classics. It stands out through its design and suits almost any type of building.

The easy-to-install system, familiar to traditional roofing, allows for the extremely fast creation of a solar-powered roof. A roof built with classic photovoltaic tiles is architecturally and aesthetically consistent, while also being watertight and safe.

Components of the eTile Classic System





eTile Classic PV8

This is the standard module, the most powerful one. All its fields are covered with photovoltaic panels. The total power of the module is 98 watts. Micro-modules are interconnected under the sheet, and there is an MC4 connection for the entire module.

98 W/m²

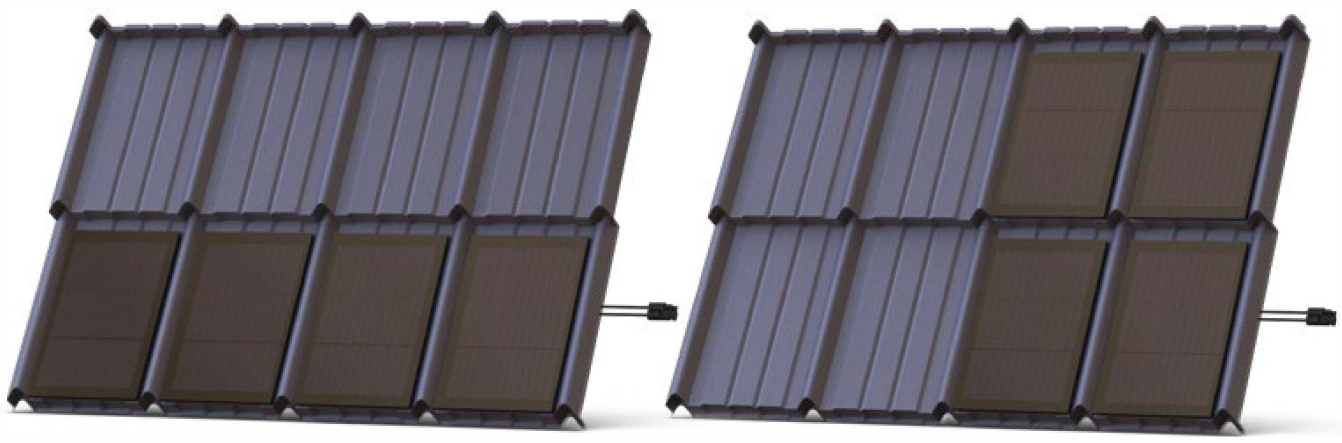
Height	820 mm
Width	1190 mm
Thickness	40 mm
Material	Conical glass based on metal sheet
Coating	Two-layer coating with a thickness of 50 microns
Minimum roof slope	12°
Module efficiency	98 W
Connectors	MC4

eTile Classic PV4

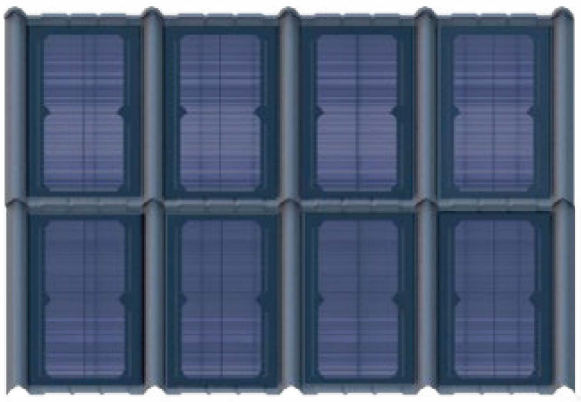
PV4 is a complementary variant designed to complete installations where edge cutting is required. PV4 can be used at the roof edge, or around skylights and chimneys.

49 W/m²

Height	820 mm
Width	1190 mm
Thickness	40 mm
Material	Conical glass based on metal sheet
Coating	Two-layer coating with a thickness of 50 microns
Minimum roof slope	12 °
Module efficiency	49 W
Connectors	MC4

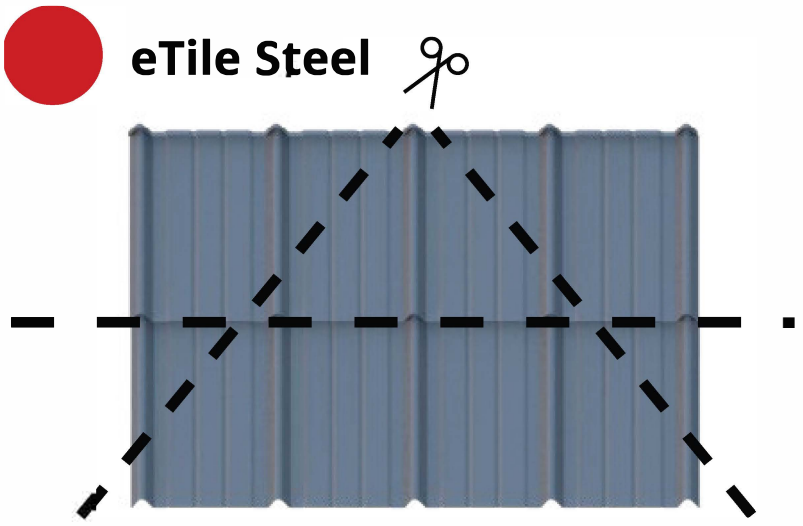


PV8 Module



PV8

eTile Steel



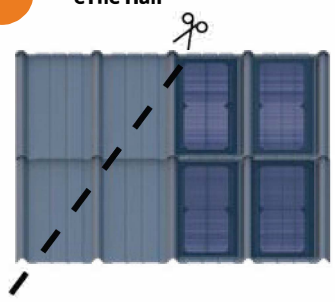
ST8

Customized products

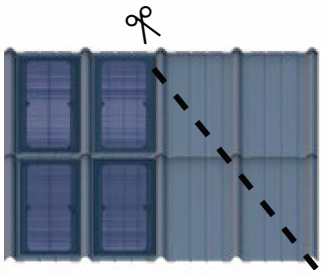
eTile Classic offers several important advantages regarding cutting:

1 - Flexibility in installation – Panels can be cut directly on-site with simple sheet tools, allowing perfect adaptation to the roof geometry.
2 - No special tools required – Unlike other integrated solar systems, this can be cut with standard metal sheet tools.
3 - Clean and safe edges – The production technology ensures that cut edges remain smooth and safe, without compromising system integrity.
4 - Versatility – Cutting capability allows installation around roof elements such as chimneys, windows, or vents.
5 - Reduced installation cost – The ability to cut material on-site reduces installation time and costs.

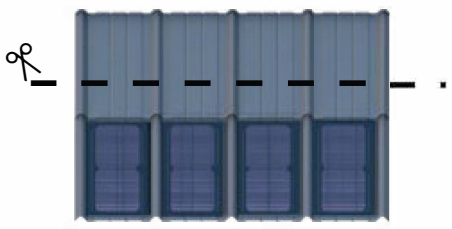
eTile Half



PV4 RIGHT

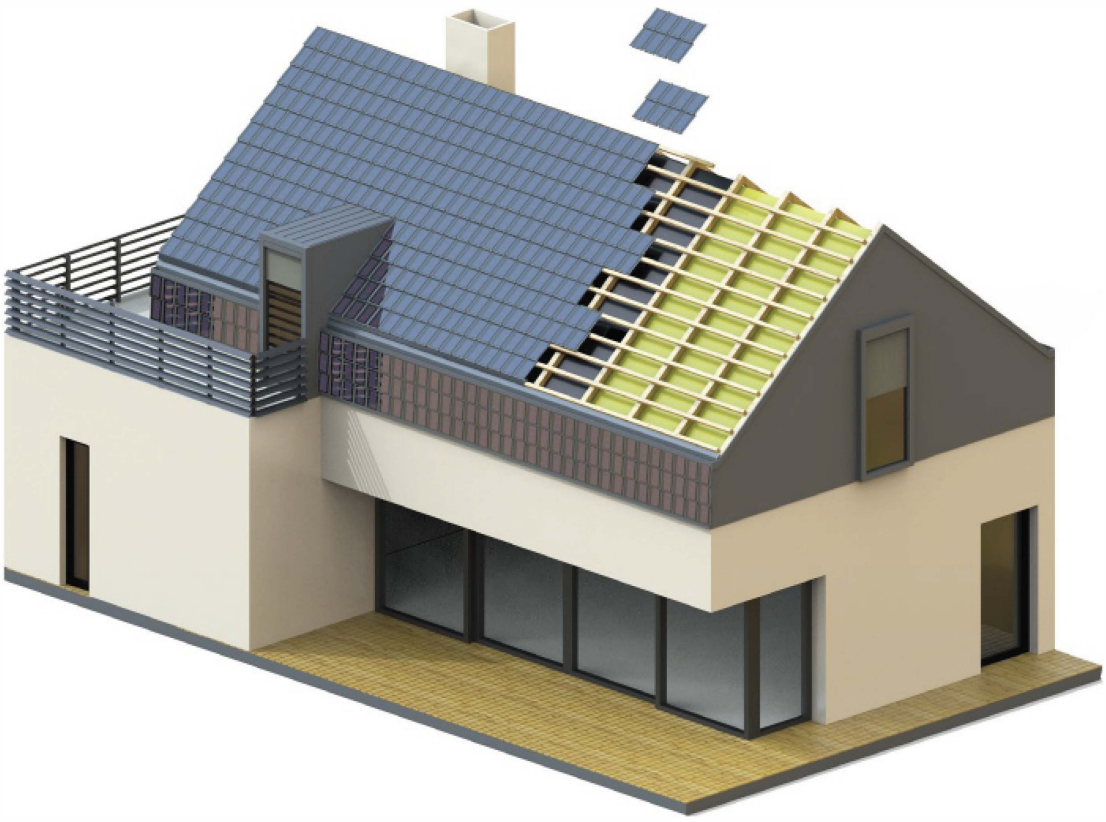


PV4 LEFT

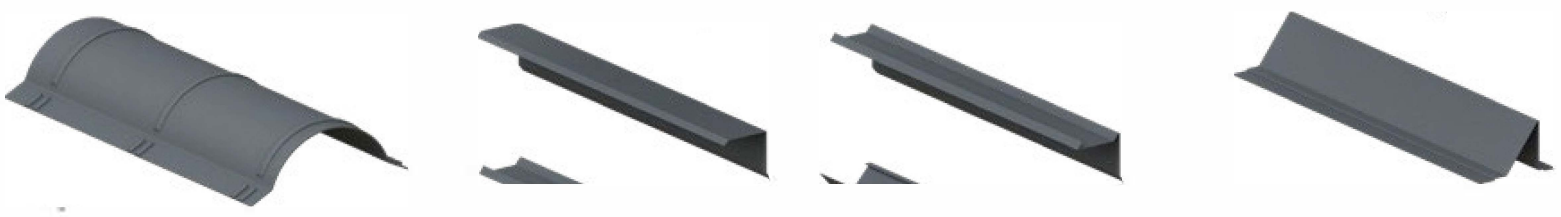


PV4 LOWER

PV4 TOP



Finishes

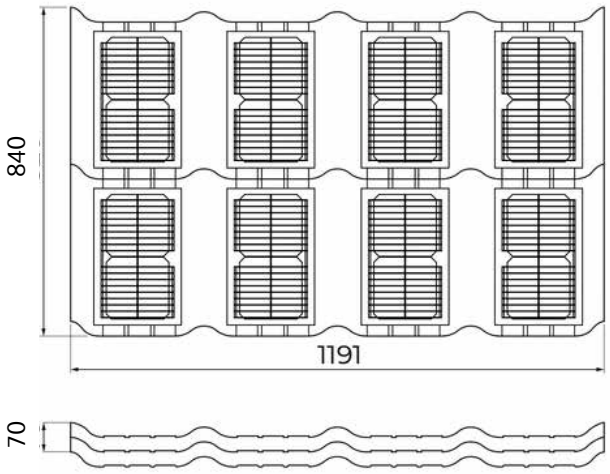


Roof Accessories

The system is compatible with standard roof accessories dedicated to a specific tile model, including:

- Gutter tape
- Wind breaker
- Gutter

Dimensions:



components

Cable length	1000 mm
Cell type	210x105 half-cut
Junction box	C
Connector	MC4
Glass	sticla solara 4mm
Steel sheet	Blachotrapez
Sheet thickness	0,5 mm
Shell	35µm

Technical data

Product dimensions

Total width mm	1191
Effective width mm	1157
Total length mm	829
Effective length mm	840
Step height mm	35
Coverage area m²	0,949
quantity per pallet, pcs	10

Mechanical parameters

Mechanical load	5400 Pa
Operating temperature	-40 +80 °C
Photovoltaic panel class	class A
Fire class	class C

Warranty

Warranty on the entire product	10 Yrs
Linear power guarantee at least 80% of the original power	25 Yrs
Warranty for peeling coating or color differences	20 Yrs
Warranty for sheet metal without PV (perforations, corrosion)	45 Yrs

Roof structure requirements

Total weight of the active panel	9,3 kg
Active weight for half panel	8,8
Weight of inactive panel	3,8
Weight of 1 m² of roof with active panels	14,2
Minimum roof angle	15°
Counter batten height (ventilation space)	at least 40 mm

Certificates and standards

Tested in a climatic chamber
Fire classification 1967/C/2022/K/1
Certificate of the Research Center of the Polish Academy of Sciences PN-EN 61215-2:2017
Developed in accordance with the standards:
IEC 61730-1:2016 (photovoltaic module safety) T1 13501-5-2016 BROOF (fire protection) TÜV IEC 61215 prequalification

CE

Colors and variants

Basic black

Pure black

Anthracite

Gray

Red Brick

Electrical parameters of eTile Classic variants

	basic black		pure black		anthracite		gray		brick red	
Power (Wp)	98.5	49.2	71.89	35.94	98	49	59.08	29.54	59.08	29.54
Maximum system voltage (V)	1000	1000	1000	1000	1000	1000	1000	1000	1000	1000
Security (A)	10	10	10	10	10	10	10	10	10	10
Power tolerance	+ /-5%	+ /-5%	+ /-5%	+ /-5%	+ /-5%	+ /-5%	+ /-5%	+ /-5%	+ /-5%	+ /-5%
Maximum voltage Vmpp(V)	13.25	6.63	13.25	13.25	6.63	6.38	13.19	6.60	13.19	6.60
Maximum power current Impp(A)	7.43	7.43	7.06	5.43	5.43	7.1	6.06	6.10	6.06	6.10
Open circuit voltage (V)	15.18	7.59	15.18	15.18	7.59	8.22	13.62	6.81	13.62	6.81
Short circuit current (A)	7.81	7.81	5.70	5.70	7.42	7.52	4.68	4.75	4.68	4.75

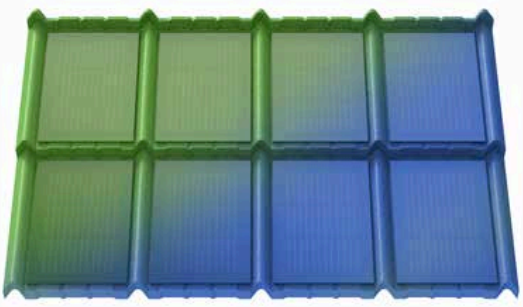
eTile Classic(COLORS)

Available in 5 standard color variants, which differ in both the color of the glass and the sheet metal. Due to the technology, the variants differ in the generated power, which is lower in the case of colored glass with lower translucency. Detailed electrical parameters are presented in the tables.

	Basic black	Pure black	Anthracite	Gray	Brick Red
					
Active panel	98.5 Wp	71.9 Wp	98Wp	59.1 Wp	59.1 Wp
Half panel **active**	49.2 Wp	36 Wp			

Custom colors*

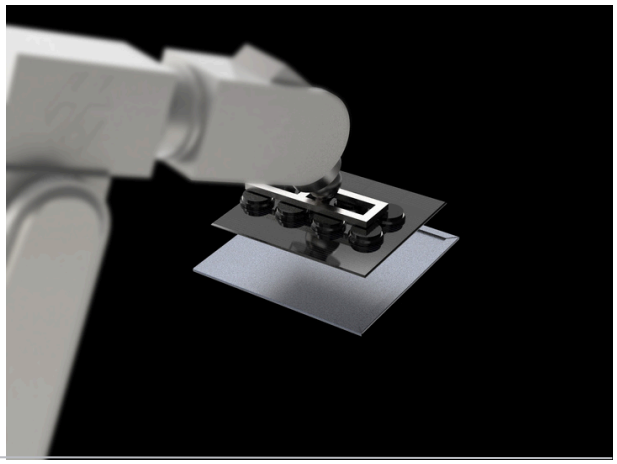
It is possible to make solar tiles in a non-standard color. Non-standard colors depend on the availability of the sheet from the manufacturer.

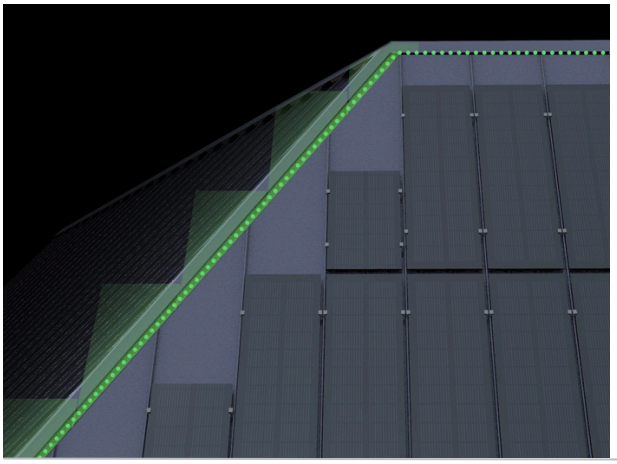


Precision and quality of workmanship

RoboWeld Precision: robotic manufacturing

Our fully automated production line with industrial robots ensures precise module bonding with an accuracy of up to 0.1 mm. This level of repeatability, unattainable in manual production, guarantees the highest quality of each element and a longer product life thanks to perfect workmanship.



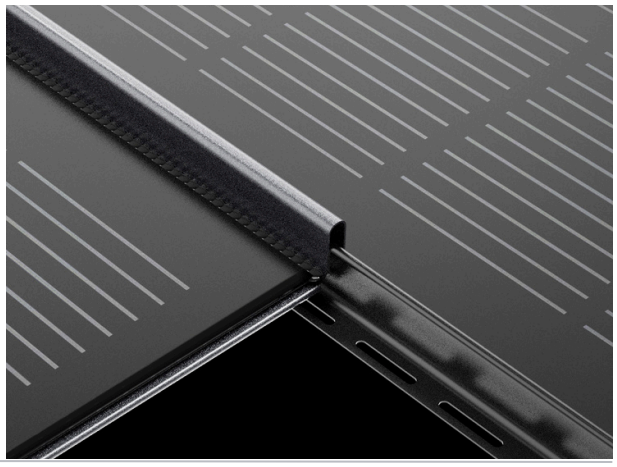


AdaptiveFit system: precise adjustment to the roof

The advanced modular system with compensation elements allows you to adapt the installation to the actual dimensions of the roof, even when the structure deviates from the design. Specially developed assembly solutions and a cutting system guarantee a perfect finish without costly modifications, regardless of the shape of the roof.

High quality materials

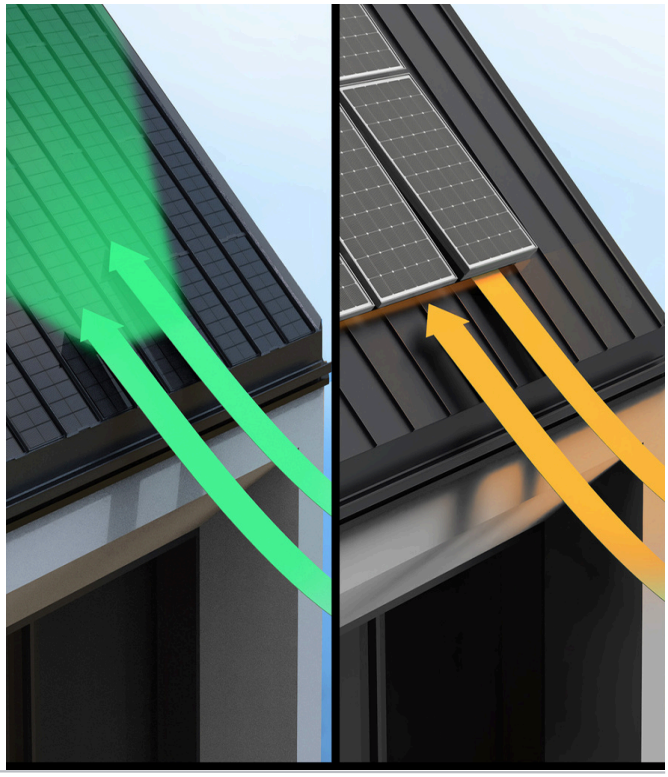
Solar roofs are manufactured entirely in a modern factory near Warsaw, combining the latest production technologies with rigorous quality control. We offer full transparency of the production process - every customer can visit our factory and see how our products are made.

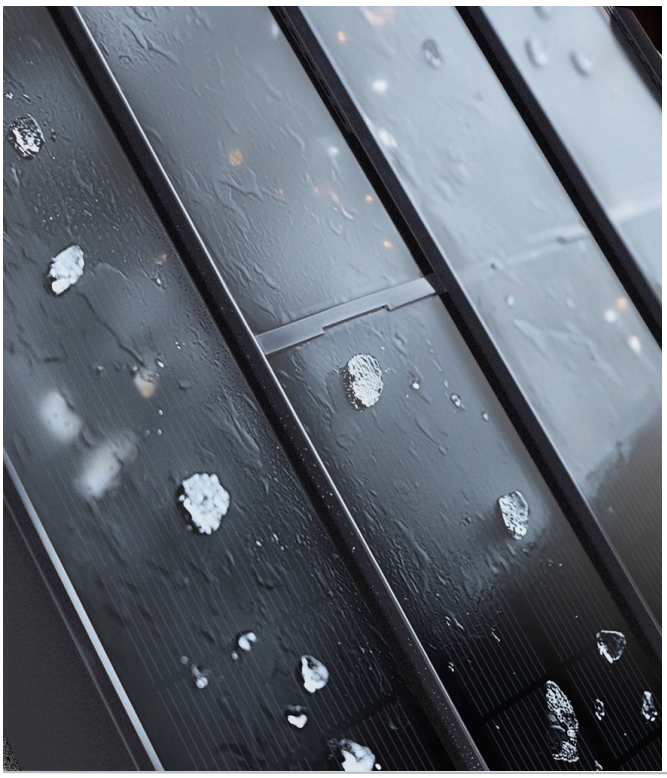


Security and reliability

Safe even during a hurricane

Traditional photovoltaic panels create a risky environment for strong winds. Roofs Flat photovoltaicscompletely eliminates this problem thanks to the complete integration of the modules with the roof. Inspired by aviation technology, they provide safety even during hurricanes by eliminating wind traps.





Exceptional protection against hail storms

Our solar roofs with 4 mm tempered glass and an impact energy dispersion system protect against hail up to 35 mm in diameter - much more effectively than standard photovoltaic installations or traditional roof coverings, which only stop hail up to 25 mm in diameter.

Transforming a 100-year-old building

The old pub has been converted into a modern yacht club building.Classic photovoltaic tile (anthracite color) was used on both slopes - east and west - on the broken roof. The power of the entire roof is 10kWp: 120 full modules and 54 half modules (right, left, top, bottom). The installation is operated by 2 Sofar Amass inverters of 7kWp and a 14kWh energy storage system.

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