

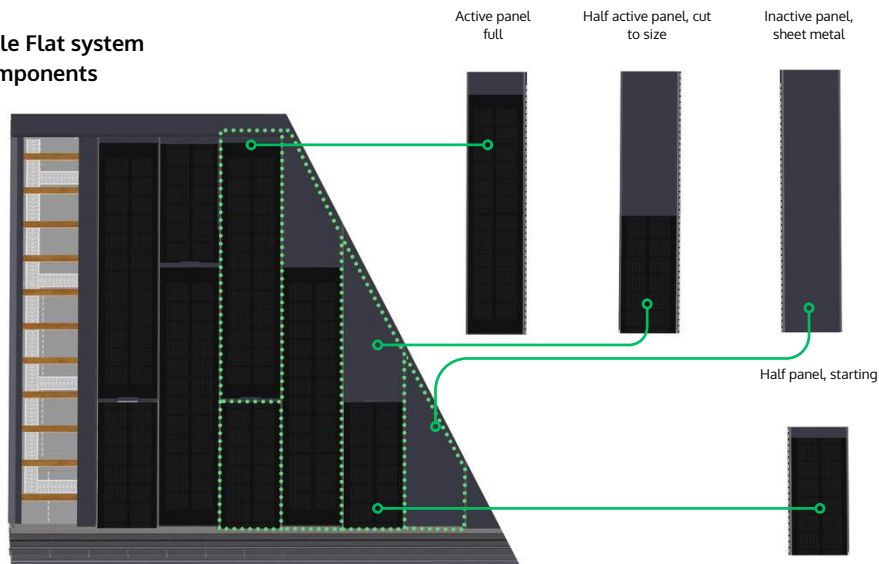
Technical Data Sheet eTile Flat



A eTile Flat

eTile Flat is an innovative standing seam solar sheet system that combines roofing functions with energy production. By integrating photovoltaic modules with premium sheet metal, an elegant, minimalist finish with an efficiency of 170Wp/m² has been achieved. The system ensures tightness, durability and aesthetics of the roof, while ensuring the building's energy independence. The perfect solution for modern architecture.

eTile Flat system components



Roof accessories

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

- Gutter strip
- Windbreaker
- Gander
- Gutter



Dimensions:



Components

Cable length	1000 mm
Cell type	210x105 Half Cut
Junction box	C
Connector	MC4
Glass	solar glass 4mm
Steel sheet	Ironworks
Sheet thickness	0.5mm
Coating anthracite/black	26µm
Coating Gray/Brick/Red	50µm

Mechanical parameters

Mechanical load	5401 Pa
Operating temperature	-40 +80 °C
PV panel class	class A
Fire class	class C

Roof structure requirements

Full active panel weight	16kg
Active Half Panel Weight	9kg
Inactive panel weight	5kg
Weight of 1m ² of active panel roof covering	15,9kg
Minimum roof angle	15°
Batten height (minimum ventilation)	at least 40 mm



Technical data

Product dimensions	
Total width mm	512
Effective width mm	475
Total length mm	2300
Effective length mm	2120
Step height mm	32
Coverage area m ²	1,01
quantity on pallet, pcs	10

Guarantee

Warranty on entire product	10 years
Linear power guarantee	
at least 80% of the original power	25 years
Guarantee for coating peeling or color differences	15 years
Guarantee for sheet metal without PV (perforations, corrosion)	40 years

Certificates and standards

Tested in a climatic chamber	
Fire classification 1967/C/2022/K/1	
Certificate PN-EN 61215-2:2017	
Developed in accordance with the standards:	

IEC 61730-1:2016(PV module safety) TI 13501-5-2016
BROOF (Fire protection) TÜV Pre Qualification IEC 61215

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eTile Basic Colors

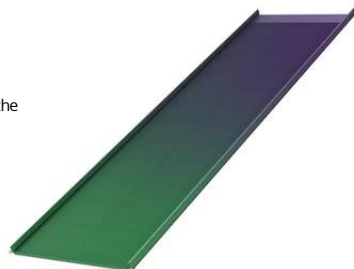
eTile Flat is available in 5 different color variants as standard, differing in both the color of the glass and the sheet metal. Due to the technology, the variants differ in the generated power, which is lower in the case of colored glass with lower transparency. Detailed electrical parameters are presented in the tables.



	Basic Black	Pure Black	Anthracite	Gray	Brick Red
Active panel	170 Wp	124 Wp	164 Wp	102 Wp	102 Wp
Half active panel	85 Wp	62 Wp	82 Wp	46 Wp	46 Wp

Custom colors*

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



Colors and Variants

Basic Black



Pure Black



Anthracite



Gray



Brick Red



Electrical parameters of eTile Flat variants

	basic black		pure black		anthracite		gray		brick red	
Power (Wp)	170	76,5	124,1	55,84	164	73,8	102	45,9	102	45,9
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)	22,14	10,5	22,13	10,5	22,13	10,5	22,13	10,5	22,13	10,5
Maximum power current Impp(A)	7,78	7,78	5,67	5,67	7,43	5,68	4,67	4,67	4,67	4,67
Open circuit voltage (V)	26,3	12,4	26,3	12,4	26,3	12,4	26,3	12,4	26,3	12,4
Short circuit current (A)	7,72	7,72	5,64	5,64	7,82	7,82	4,63	4,63	4,63	4,63