



PLATIO SOLAR DECK

■ Datasheet



PLATIO SOLAR is a European green tech company focusing on creating sustainable building materials. Our company is the developer and manufacturer of **PLATIO Solar Deck**.

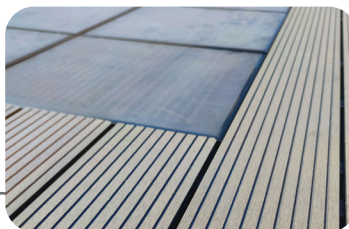
PLATIO SOLAR DECK offers a durable and walkable surface while combines modern design with sustainability. It not only generates clean energy, but also integrates solar technology into the built environment without occupying valuable space.

APPLICATION AREAS

of PLATIO SOLAR DECK are the following:

- Decks
- Rooftops
- Balconies/Terraces
- Event spaces
- Outdoor venues
- Bridges
- Overpasses
- Pontoons/Marinas

EASY INTEGRATION: COMPATIBLE WITH STONE, WPC AND WOOD SYSTEMS



PRODUCT BENEFITS



RETURN ON INVESTMENT – LESS THAN 10 YEARS

Walkable Solar Deck system that will bring back the price.



QUICK AND EASY INSTALLATION

Modular design enables fast, straightforward installation similar to WPC decking.



DURABILITY

High resistance to load, impact, scratches, and weather, ensuring long-lasting performance.



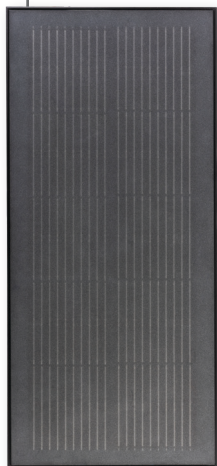
SAFETY

Operates on safety extra low voltage (SELV) with high level of anti-slip surface protection.



SPACE-SAVING SOLUTION

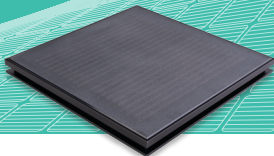
Incorporates solar technology into the built environment without occupying valuable space.





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GENERAL DATA

Sizes W x L x H (mm)	447x447x40	447x1000x40
Joint gap (mm)	2 - 8	
Surface (m2)	net: 0,2 m2/piece (without joint gaps)	net: 0,447 m2/piece (without joint gaps)
Material requirements (pcs/m2)	4,95	2,222
Weight (kg/pc)	5,5	11,5
Upper surface	8 mm tempered glass - extra clear material	
Surface treatment method	sandblasted surface with coating	
Anti-skid category	R11 according to DIN 51 130	
Frame material	custom designed anodised aluminium alloy	
Cable type	photovoltaic technology cable 4,0 mm2	
IP protection	IP68	
Connector type	Multi-Contact: MC4 (PV-KST4/PV-KBT4) or MC4-EVO 2 (PV-KST-EVO 2 / PV-KBT-EVO 2)	

TEMPERATURE COEFFICIENT

Power	-0.321%/°C
Voltage	-0.264%/°C
Current	0.047%/°C
Standard test condition	AM 1,5 - 1000 W/m2 - 25°C

LIMIT VALUES

Maximum system voltage	120 VDC
Maximum system current	20 A
Maximum allowed load (kg/pc)	300

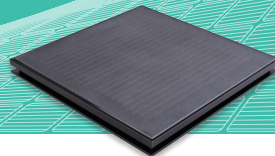
WARRANTY

Product guarantee	5 years
Standards	CE, ISO 9001: 2015, Safety Low Voltage
	IEC61215-2Edition1.0:2016,4.2
	IEC61215-2Edition1.0:2016,4.13
	IEC61215-2Edition1.0:2016,4.12
	IEC 60904-1:2020 Photovoltaic devices-Part 1
	IEC 61215-2:2021 measurement of photovoltaic current and voltage characteristics



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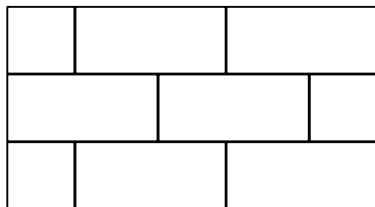


CELL DATA

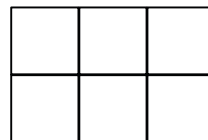
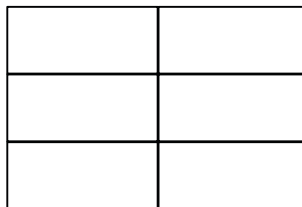
Cell type	M10 Monocrystalline	
Cell size (mm)	182x182	
Cells in modules (pcs)	4	10
Product nominal power (Wp/pc)	23,65	59,86
Product nominal power - according to IEC 61215-2:2021 (Wp/m ²)	117,1	133
Open circuit voltage (V)	2,77	6,93
Short circuit current (A)	11,95	11,7
Cell's efficiency	23,3	
Voltage U _{mp} (V)	2,10	5,46
Current I _{mp} (A)	11,25	10,97
Power deviation	+/- 5%	+/- 5%

SYSTEM LAYOUT OPTIONS

Running or Stretcher bond

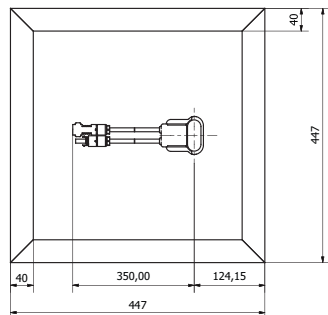
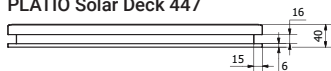


Stack or symmetric bond

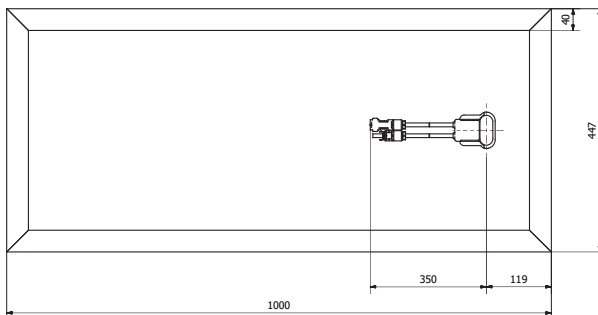
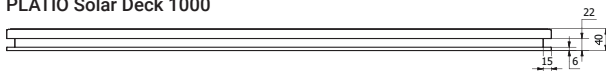


TECHNICAL DRAWINGS

PLATIO Solar Deck 447



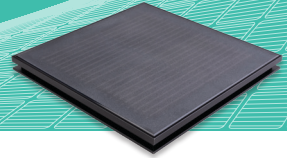
PLATIO Solar Deck 1000





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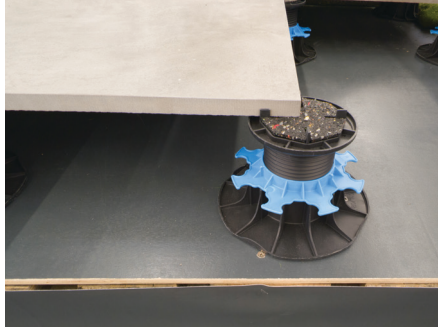


FOUNDATION/DECKING TYPES

ALU rail Understructure



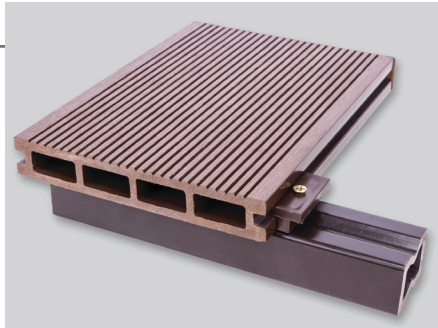
Pedestal Understructure



Wooden Understructure



WPC Understructure



CONTACT US!

WEBSITE



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Specifications included in this datasheet are subject to change without notice.

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