PRODUCT INFORMATION SHEET

ZOLAR

Zolar is a walkable pavement for rooftop terraces and is capable of generating solar energy with an efficiency similar to a regular solar module thanks to the photovoltaic cells integrated in the slab. Zolar is a BIPV (building integrated photovoltaic) solution, ideal to achieve nearly zero energy buildings by transforming any outdoor area of the building into a solar energy source.

OUTSTANDING FUNCTIONALITIES

Modular: Zolar slabs combined with fixplate lock system are designed to combine with other rooftop paving systems.
Space efficiency: Traditional solar panels often require dedicated space. Zolar is integrated into the rooftop pavement and utilizes existing infrastructure, such as rooftop terraces. It optimizes rooftop space and maximizes solar energy generation without consuming additional space.
Easy maintenance: Zolar does not require special maintenance due to its hydrophobic properties, requiring only the cleaning that is given to any other outdoor flooring.

OPERATING TEMPERATURE

Thanks to the microparticle technology incorporated into the surface layer, a thermal bridge is created on the pavement surface so that the surface does not exceed 60 degrees in temperature.

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GENERAL SPECIFICATIONS

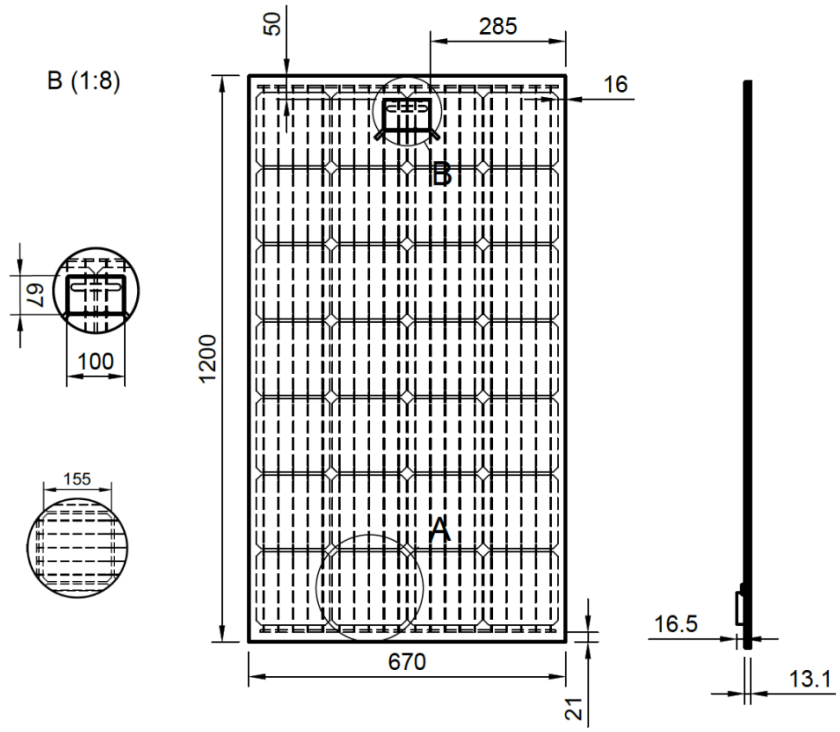
Model	Zolar
Area	0,804 sq. meters
Dimensions	1193 x 670 x 13 mm
Weight	24
Junction box protection	IP68
Connectors type	MC4 EVO2
Cell colors	Black
Cell/pcs	28
Cell size	156 x 156 (5bb)
Cell's performance warranty (years)	20
Product warranty (years)	2

ELECTRICAL SPECIFICATIONS

Technology	Monocrystal silicon
Power (W/pcs)	134 Wp
Power (W/m2)	166
Nominal Voltage	16,36 V
Nominal current	8,18 A
Open circuit voltage	20 V
Short circuit current	8,5 A
Maximum stream voltage	1000 Vdc

MECHANICAL SPECIFICATIONS

Max load (kg/pcs)	1200
Material	Tempered glass
Reaction to fire	A1
Wearing course grade (anti slipping)	Class 3 (Rd> 45) DIN 51 130 - R12 (UNE 41901:2017)
Surface layer	Non-slip polyurethane resin
Necessary support	Zoontjens Fixplate lock



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ZOLAR PAYBACK PERIOD

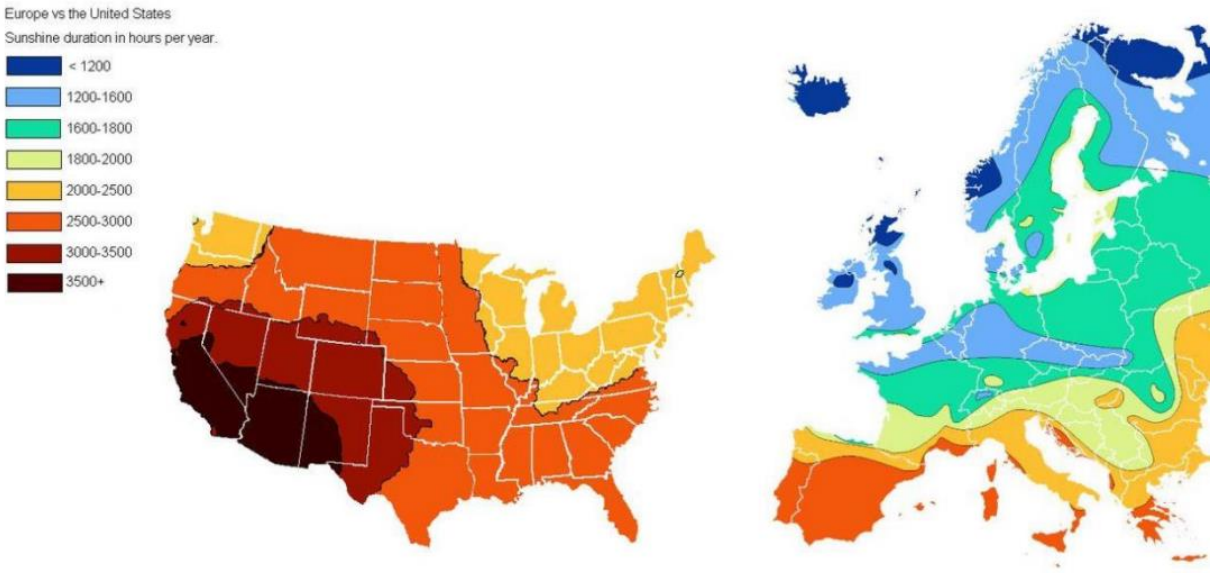

Illustration 1: Hours of sunlight in Europe and USA

		Price €/MWh							
	Payback in years	**75**	**100**	**125**	**150**	**175**	**200**	**225**	**250**
Region	Blue (London)	11.24	9.26	7.88	6.85	6.1	5.44	4.93	4.51
	Green (Munich)	10.54	8.63	7.12	6.34	5.6	5.22	4.53	4.14
	Light Green (Toulouse)	9.55	7.75	6.53	5.63	4.96	4.42	4	3.64
	Yellow (Rome)	8.65	6.98	5.84	5	4.4	3.92	3.54	3.22
	Orange (Madrid)	8.16	6.55	5.47	4.7	4.11	3.66	3.3	3
	Red (San Francisco)	7.8	6.23	5.2	4.45	3.9	3.46	3.11	2.83
	Dark Red (Los Angeles)	7.36	5.87	4.88	4.177	3.75	3.24	2.91	2.65