

BISOL EasyMount HDPE Base 125

Lightweight mounting solution for flat roofs



BISOL EasyMount HDPE base 125 is made of high-density UV-resistant polyethylene. It requires no roof penetration and can be installed in high wind zones with minimum extra ballast, sparing the roof from unnecessary loads. The innovative mounting solution has been developed in-house and allows an unobtrusive on-roof installation at a 12.5° angle. Its design reflects an expert understanding of the laws of thermodynamics, providing more efficient cooling of the photovoltaic modules.

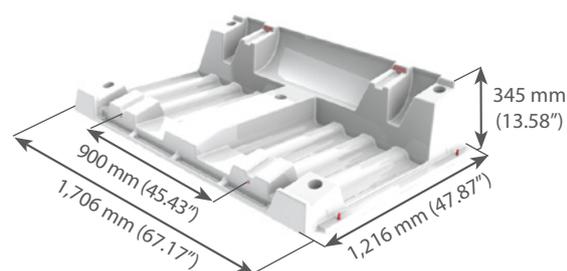
Technical Specifications

Application	Flat roofs
Roof incline	Up to 5°
Method of installation	No roof penetration
Module angle	12.5°
Module orientation	Landscape
Module frame tolerances	Width: 991 mm ± 5 mm (39.02" ± 0.20") / Length: 1,649 ± 15 mm (64.92" ± 0.59")
Holes on module frame	4 holes / Φ 6 mm (0.24") / Distance from the middle of the frame: 450 mm (17.72")
Base color	Natural white
Base material	UV-resistant high-density polyethylene (HDPE base 125) / Aluminum EN-AW 6060 T5 (L-profile) / Stainless steel (fastening elements)
Base weight	10.9 kg (24 lbs)
Additional stabilization	Ballast / BISOL EasyMount L-profiles
Temperature range	-20 to 70°C
Snow load per system	0 – 2.40 kN/m ² (with BISOL PV modules)
Wind load (velocity) ⁽¹⁾	0 – 140 km/h (87 mph)

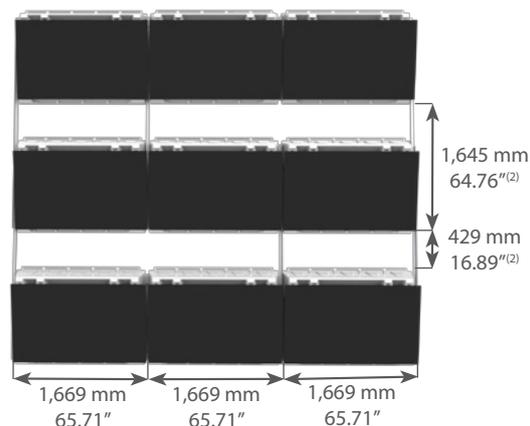
⁽¹⁾With use of L-profiles and ballast according to specifications.

⁽²⁾Layout example for optimal yield-to-installed power ratio in Central Europe. Adjustable upon request.

Dimensions of HDPE Base 125:



Distances between rows and connecting L-profiles:



10-year durability guarantee



Low-ballast solution



High wind stability



Lightweight and stackable



Quick and easy installation

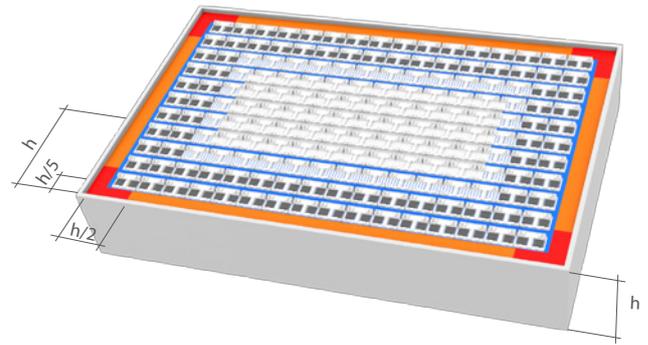


Higher power-to-surface ratio

Additional stabilization requirements for different wind velocities

Basic wind velocity: 20 m/s (45 mph)

building height	Ballast				Ballast & L-profiles			
	F	G	H	I	F	G	H	I
	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base
h ≤ 8 m	54	27	14	14	54	27	14	14
h ≤ 9 m	60	27	14	14	60	27	14	14
h ≤ 10 m	60	40	14	14	60	40	14	14
h ≤ 13 m	90	40	27	14	90	40	14	14
h ≤ 15 m	90	54	27	14	90	54	14	14



Basic wind velocity: 25 m/s (56 mph)

building height	Ballast				Ballast & L-profiles			
	F	G	H	I	F	G	H	I
	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base
h ≤ 7 m	90	54	40	27	90	54	27	14
h ≤ 8 m	120	60	40	27	120	27	27	14
h ≤ 9 m	120	60	40	27	120	27	27	27
h ≤ 10 m	120	60	40	40	120	27	27	27
h ≤ 13 m	(X)	60	54	40	(X)	27	27	27
h ≤ 15 m	(X)	60	54	40	(X)	60	40	27

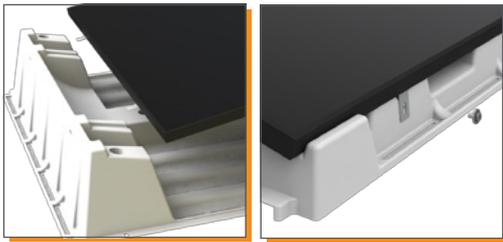
Basic wind velocity: 30 m/s (68 mph)

building height	Ballast				Ballast & L-profiles			
	F	G	H	I	F	G	H	I
	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base	kg/base
h ≤ 7 m	(X)	90	60	60	(X)	90	30	30
h ≤ 8 m	(X)	90	90	60	(X)	90	60	30
h ≤ 11 m	(X)	120	90	60	(X)	120	60	30
h ≤ 15 m	(X)	(X)	90	90	(X)	(X)	60	60

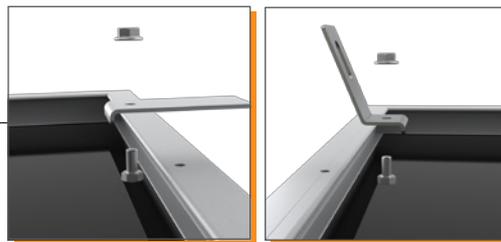
Wind loads calculated in accordance with Eurocode 1 (EN 1991-1-4). Information for additional wind zones available upon request.

(X) The use of HDPE 125 bases is not recommended.

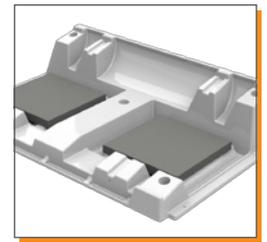
System Components



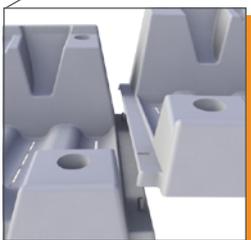
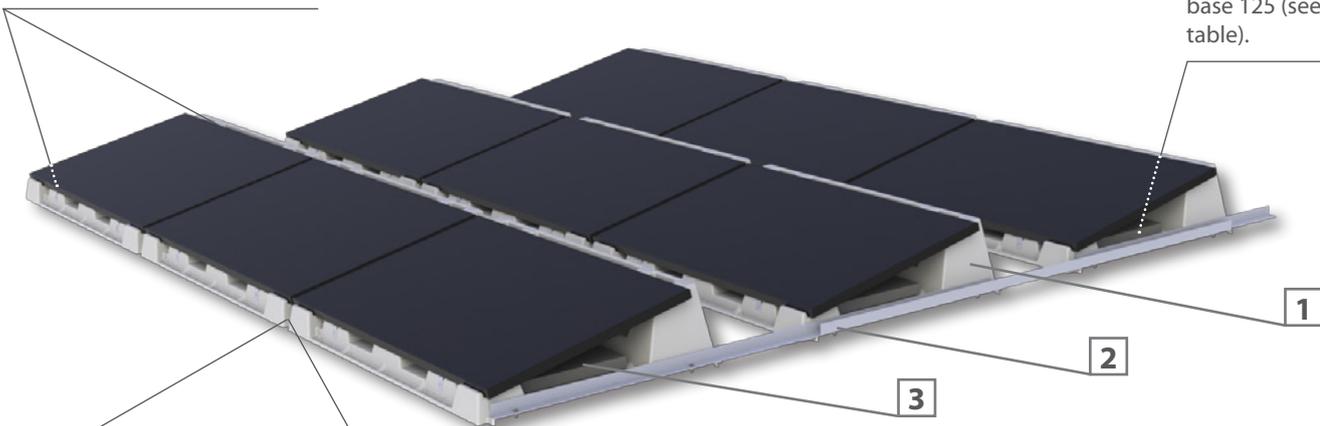
PV module is attached to the HDPE base 125 via slide-in top and bottom fixings.



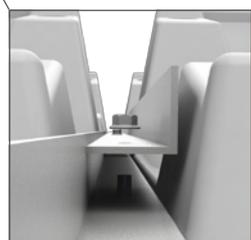
Top and bottom fixings are attached to the PV module via connecting elements.



Extra ballast can be placed into the HDPE base 125 (see ballast table).



HDPE bases 125 are horizontally connected, overlapped and attached to each other.



Rows of HDPE bases 125 are vertically connected by L-profiles.

Component	ID Code	Component description
1	SEKP-EMPB_125_BK	EasyMount HDPE Base 125 Basic Kit
2	SEKP-EMPB_125_RC	EasyMount HDPE Base 125 Row Connecting Set
3	SEK-LOAD_CP15	Load Concrete plate 40/40/4cm (15kg)