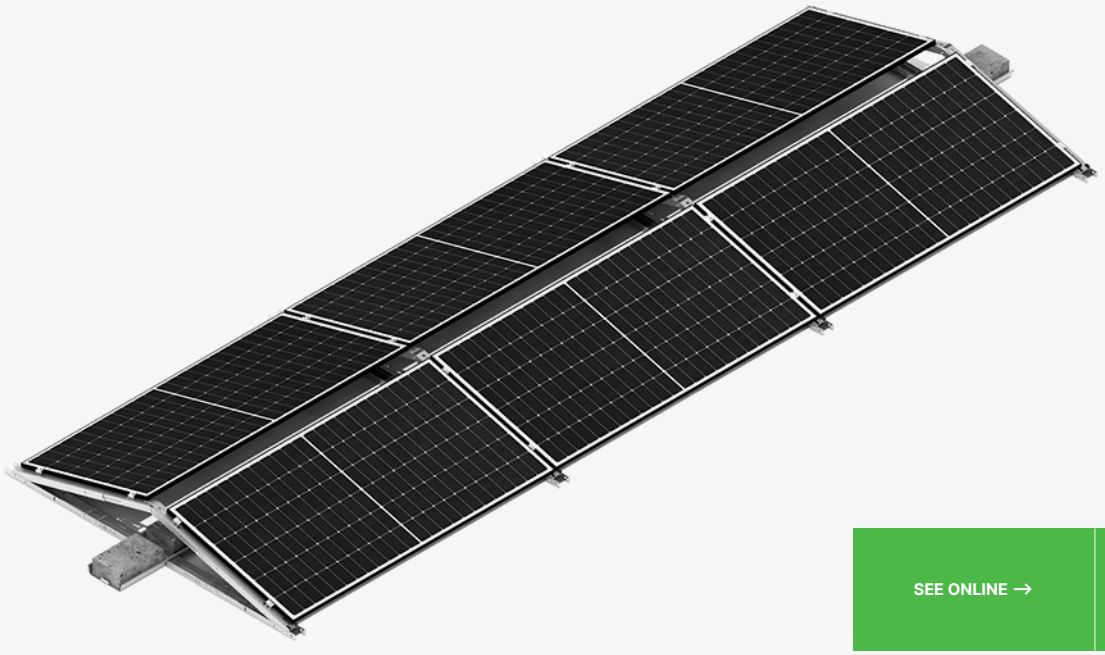
14 Ballast structure

FR-B-US-EW/H/SA/MAX-LONG2100

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	East-west (EW)	Horizontal (H)	Short side (SA)	2100



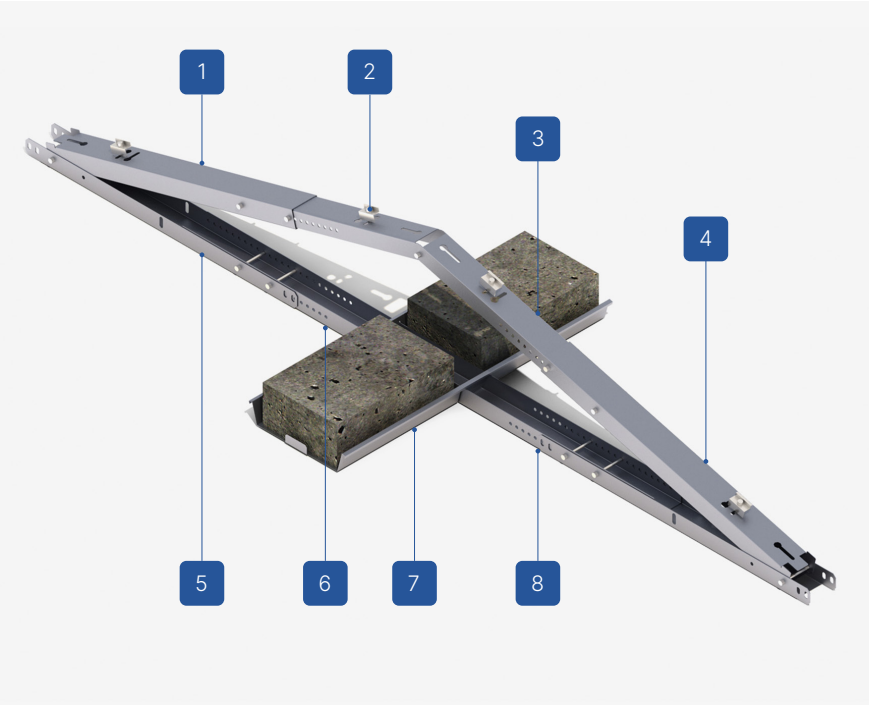
SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis™ sheet metal, intended for flat roofs, where necessary additional ballast, without the possibility of using a welded structure.
- Non-invasive assembly, using the appropriate number of ballast blocks, in accordance with the ballast plan.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.

At the customer's request, each installation using a structure is calculated by our Technical Department in terms of its load for a given roof, the method of installation and the number of bases that must be mounted.

Flat roof structures (FR)



1. Lower telescope - long side
   RBTSOLAR-KDR_2_825
2. Upper telescope - long side
   RBTSOLAR-KDT_3_825
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. End telescope - base
   RBTSOLAR-KDWZP_6_880
6. Middle telescope - base
   RBTSOLAR-KDWZŁ_7_1544
7. Omega for support
   (Base for ballast blocks)
   RBTSOLAR-KD-PB
8. End telescope - base
   RBTSOLAR-KDWZP_6_880

CHARACTERISTICS	FR-B-US-EW/H/SA/MAX-LONG2100
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
Type of construction	Universal (US)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module	Short side (SA)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane
Method of assembly	The base of the structure is placed on the roof covering and then additionally ballasted using concrete blocks placed on a ballast platform
Does the structure require additional ballast?	Yes
Is it possible to apply the hybrid solution (weld + ballast)?	No
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	9,94
Purlin length (mm)	Without purlins
Wind brace length (mm)	Without wind guard
Maximum PV module length (mm)[3]	2100
How to install the clamps	Clamps mounted to the triangle - key system
Method of distribution	Available in stock

[1] the proposed installation method for a given type of module may differ from the installation method provided by the PV module manufacturer, whose recommendations and recommendations determine the proper installation.
[2] weight calculated for a system of three modules in one row with the maximum dimensions for a given type of structure
[3] the given maximum size of the module and the proposed method of its installation may differ from the installation method provided by the PV module manufacturer, whose recommendations and recommendations determine the proper installation

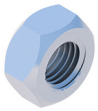
LIST OF PARTS - BASE OF CONSTRUCTION

Universal triangle
East-west

RBTSOLAR-FR-US-EW

Omega dla podpory
(Podstawa dla bloczków
balastowych)

RBTSOLAR-KD-PB



Self-locking nut
M8 DIN985 A2

NSHM8A2

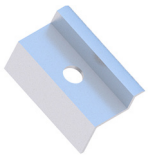
Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

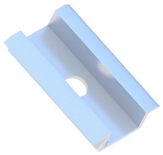
SIM8X100A2

LIST OF PARTS - OTHER INSTALLATION ELEMENTS



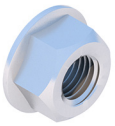
End clamp
30/32/35/40
Nature/Black

KLK50/30(32/35/40)ALN
KLK50/30(32/35/40)ALCZ



Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Allen screw
M8X35 DIN912 A2

SIM8X35A2