

Roof structures completed (FR)

015 Aluminum ballast structure

FR-A-B-US-S/H/L A/MAX-LONG-X

TYPE OF CONSTRUCTION

Universal (US)

DIRECTION OF MODULES

South (S)

MODULE LAYOUT

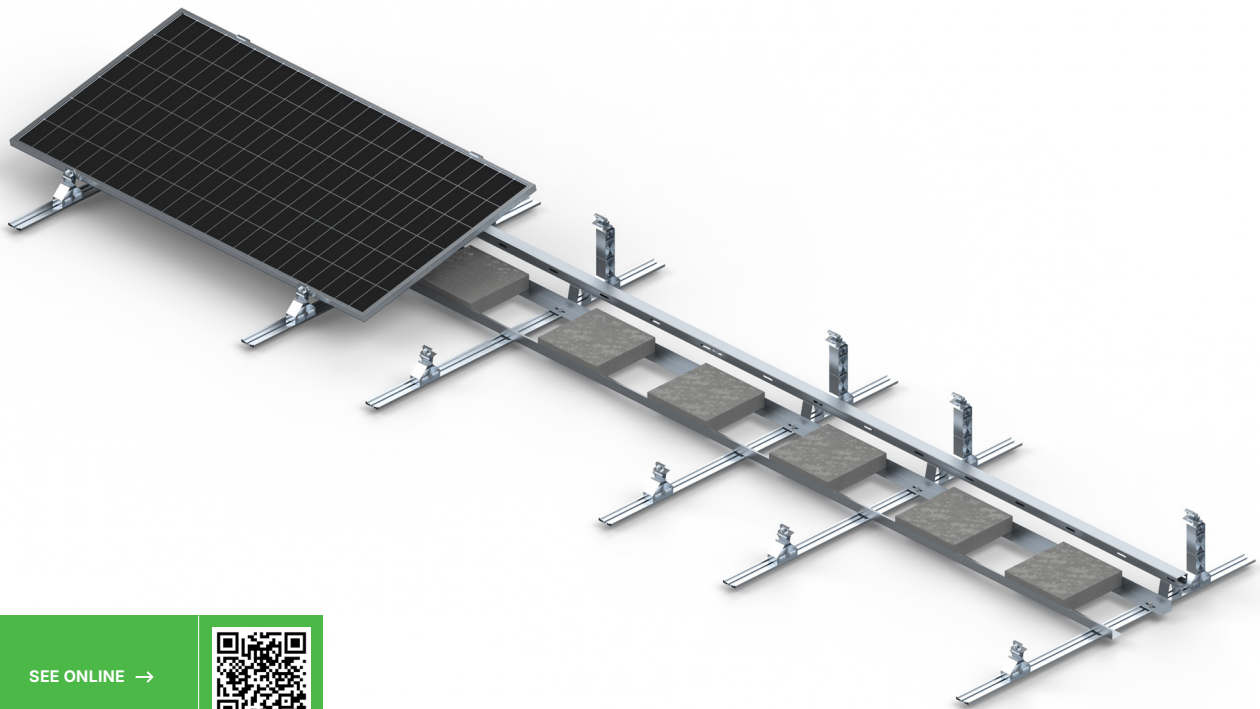
Horizontal (H)

ASSEMBLY METHOD

Long Side (LA)

MAX PV MODULE LENGTH

Individual (X)



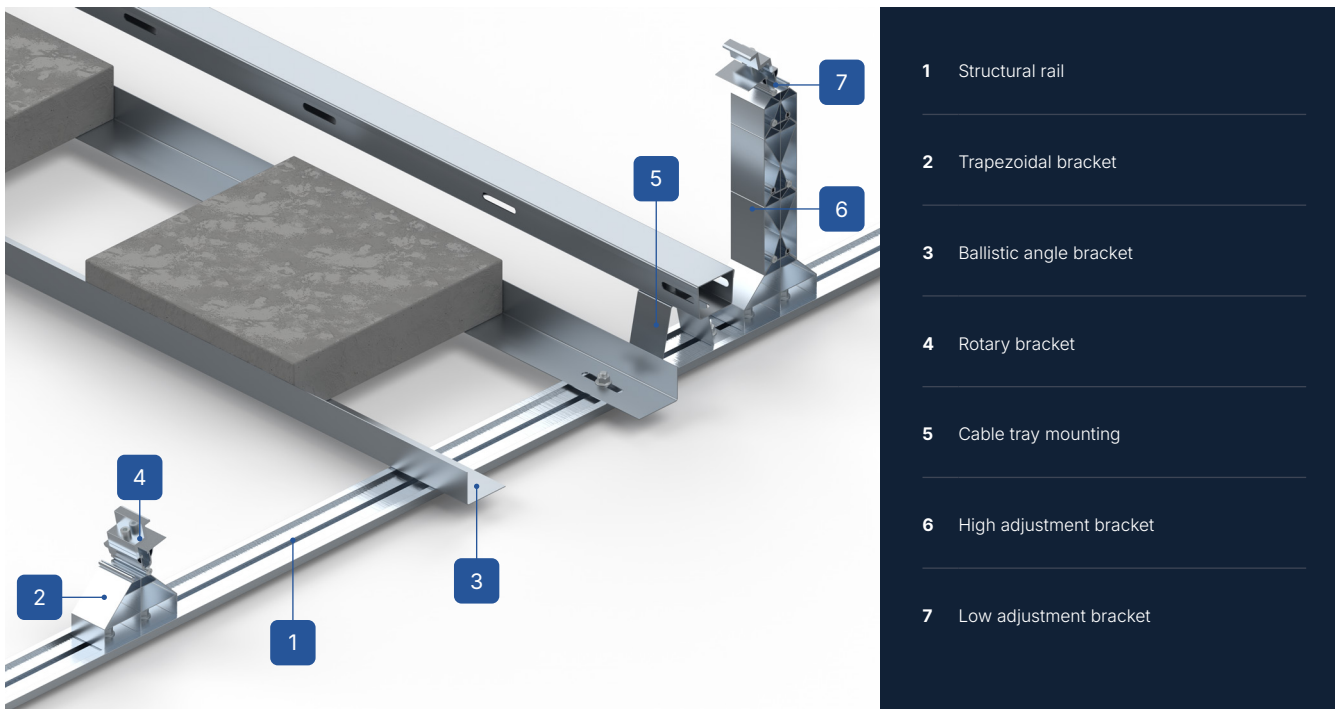
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DESCRIPTION OF THE STRUCTURE

- A multi-part ballasted structure made of aluminum, designed for flat roofs.
- A universal photovoltaic structure allows for adjustment of the module tilt angle from 10 to 25 degrees, in 5-degree increments.
- Constant availability of components in stock guarantees fast and efficient order fulfillment.
- This non-invasive system is based on a structural base, which must be ballasted with the appropriate number of ballast blocks according to the ballast plan.
- It is recommended that the ballast system be recalculated for each flat roof application, taking into account wind zones and loads.
- This system is designed for flat roofs where the primary criterion is the impossibility of using a welded structure.
- For south-facing solutions, a wind brace is required to limit the wind impact on the structure and increase its stiffness.
- Installations with a capacity exceeding 50 kWp are recalculated individually by the technical department, taking into account the roof load and the amount and distribution of ballast.

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- 1 Structural rail

- 2 Trapezoidal bracket

- 3 Ballistic angle bracket

- 4 Rotary bracket

- 5 Cable tray mounting

- 6 High adjustment bracket

- 7 Low adjustment bracket

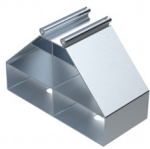
CONSTRUCTION CHARACTERISTICS

FR-A-B-US-S/H/L A/MAX-LONG-X

Roof type	Aluminum Flat Roof (FR-A)
Roof mounting method	Ballasted Structure (B)
Construction type	Universal (US)
Module orientation	South (S)
Module layout	Level (H)
PV module mounting method ¹	Long Side (LA)
Application/mounting surface	PVC Membrane/Bituminous Membrane
Structure mounting method	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
Approximate weight of the structure per 1m ² of installation without panel weight and without additional ballast (kg/m ²) ²	3.92
Purlin length (mm)	No Purlins
Wind girder length (mm)	2175
Maximum PV module length (mm) ³	Custom (X)
Distribution method	Available on stock

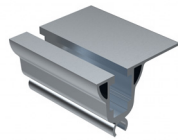
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ELEMENTS OF THE BASE OF THE STRUCTURE



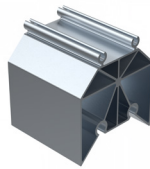
Trapezoidal bracket

RBTSOLAR-KD-AL-WT



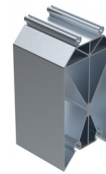
Swivel bracket

RBTSOLAR-KD-AL-WO



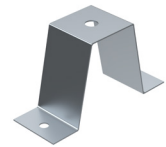
Low adjustment bracket

RBTSOLAR-KD-AL-WRN



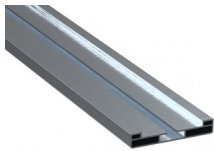
High adjustment bracket

RBTSOLAR-KD-AL-WRW



Cable tray mounting

RBTSOLAR-KD-MK



Structural rail

RBTSOLAR-KD-AL-SK



Ballast angle bracket

RBTSOLAR-KD-PBL



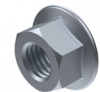
Self-tapping screw -
ST4,8X9,5-C-S

WK4,8X9,5A2



T-head bolt
M10X20

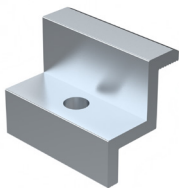
SMM10X20A2



M10 flange nut

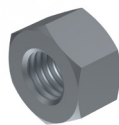
NKM10A2

OTHER ASSEMBLY ELEMENTS



End clamp 30/32/35/40
Natura/Czarna

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



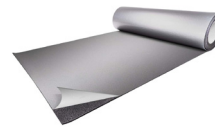
Hexagon nut
M8 A2

NM8A2



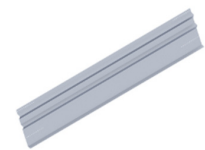
Allen screw
M8X35 A2

SIM8X35A2



Regupol

KD-GW-6/8,5/100-SAM



Wind brace L=X

RBTSOLAR-KD-W-X