

Flat roof structures (FR)

10

Welded structure

FR-W-PS-EW/H/LAZ/MAX-LONG-X

TYPE

Projected (PS)

MODULE DIRECTION

East-west (EW)

MODULE LAYOUT

Horizontal (H)

INSTALLATION

Long side (LAZ)

MAX PV MODULE LENGTH

Individual (X)



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DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat roofs without the need for additional ballast.
- Created with the involvement of a specialist in membrane roof installation.
- Its unique shape is designed to significantly reduce installation time and maximize the force required to tear out the base.
- Non-invasive installation using welding technology with a so-called leister (for PVC) or a gas burner (for bitumen).
- The high durability of the welded system is confirmed by specialized laboratory tests.
- For proper installation, only one welded base is required per support.
- Optionally – a hybrid system that allows for welding the base and simultaneously loading the wind deflector with ballast (in roof zones particularly exposed to wind suction).
- In the case of installing PV modules in a horizontal layout, an additional element is the ZET profiles with slot holes, to which the modules are mounted using clamps and M8 hex socket screws.

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- 1. Purlin
- 2. Long arm
- 3. Welded base for support
- 4. Base east-west

CHARACTERISTICS

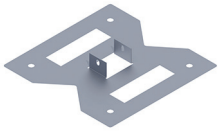
FR-W-PS-EW/H/LAZ/MAX-LONG-X

Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Projected (PS)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module ¹	Long side (LAZ)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane
Method of assembly	The base of the structure is welded to the roof surface
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	No
Approximate weight of the structure per 1m ² of installation without additional ballast (kg/m ²) ²	~15,5
Purlin length (mm)	X
Wind brace length (mm)	Without wind guard
Maximum PV module length (mm) ³	X
How to install the clamps	Clamps mounted to the triangle - key system
Method of distribution	Custom construction made to order with a lead time of up to 4 weeks for modules with lengths as specified in the product sheet sent for quotation.

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

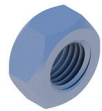
Flat roof structures (FR)

LIST OF PARTS - BASE OF CONSTRUCTION



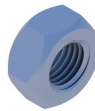
Welded base for support

RBTSOLAR-KD-PZ



Hexagonal nut M10 IE

NM10Z



Hexagonal nut M8 IE

NM8Z



Washer M10 300HV ISO7093-1 IE

PSZM10Z



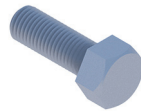
Washer M8 300HV ISO7093-1 IE

PPM8Z



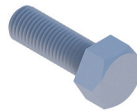
Screw M8X97 IE

SM8X97Z



Hexagonal screw M8X25 IE

SM8X25Z



Hexagonal screw M10X20 IE

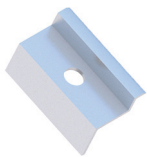
SM10X20Z



Purlin for support L=X

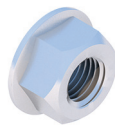
RBTSOLAR-KD-PL-X

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



Flange nut serrated M8 DIN6923 A2

NKM8A2



Allen screw M8X35 DIN912 A2

SIM8X35A2