rbt® solar









The leading manufacturer of photovoltaic structures in Europe.

GRUPA rexbud

We are a part of the Rex-Bud Group, one of the largest General Contractors in the Polish and European markets.

We understand the significant importance of quality and timely execution. Leveraging nearly 30 years of experience, a team of top specialists in the market, and a modern, continuously expanding machine park, we are capable of meeting any project's requirements.

Stability and Safety

Rex-Bud Group has been operating continuously since 1995. Over nearly 30 years, with hundreds of completed projects under our belt, we have earned the reputation of being one of the leading General Contractors in Poland and Europe. As a part of the group, we guarantee the same quality, timeliness, and full commitment at every stage of your investment.

Experience

We understand the scale of challenges and the diversity of expectations that precede the start of each project. We also know how to meet them. Confirmation of this is the millions of square meters of investments delivered by the Group over the years, as well as numerous awards, including the Forbes Diamonds award five times and the Polish Construction Eagle statuette.

Highest Level of Service

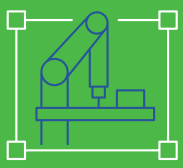
We operate on the principle of partnership in business. Your time is important to us.

Working in a 'design and build' system, we tailor our services to meet your needs, ensuring the achievement of your goals. Our Design Office provides full support and advice at every stage of the investment to optimize production costs and shorten its duration.

RBT Solar manufactoring facility in Zgierz, Poland

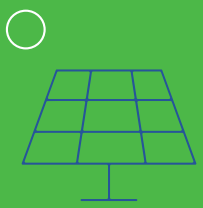
Continuous Development

We strive to always stay two steps ahead of the market and exceed our clients' expectations. This drives us to constantly push the boundaries of our capabilities, continuously developing our production resources, and ensuring the highest quality of services we offer.



7500+ m²

of production space



1000+ MW

annual production capacity of our photovoltaic structures

30+ years

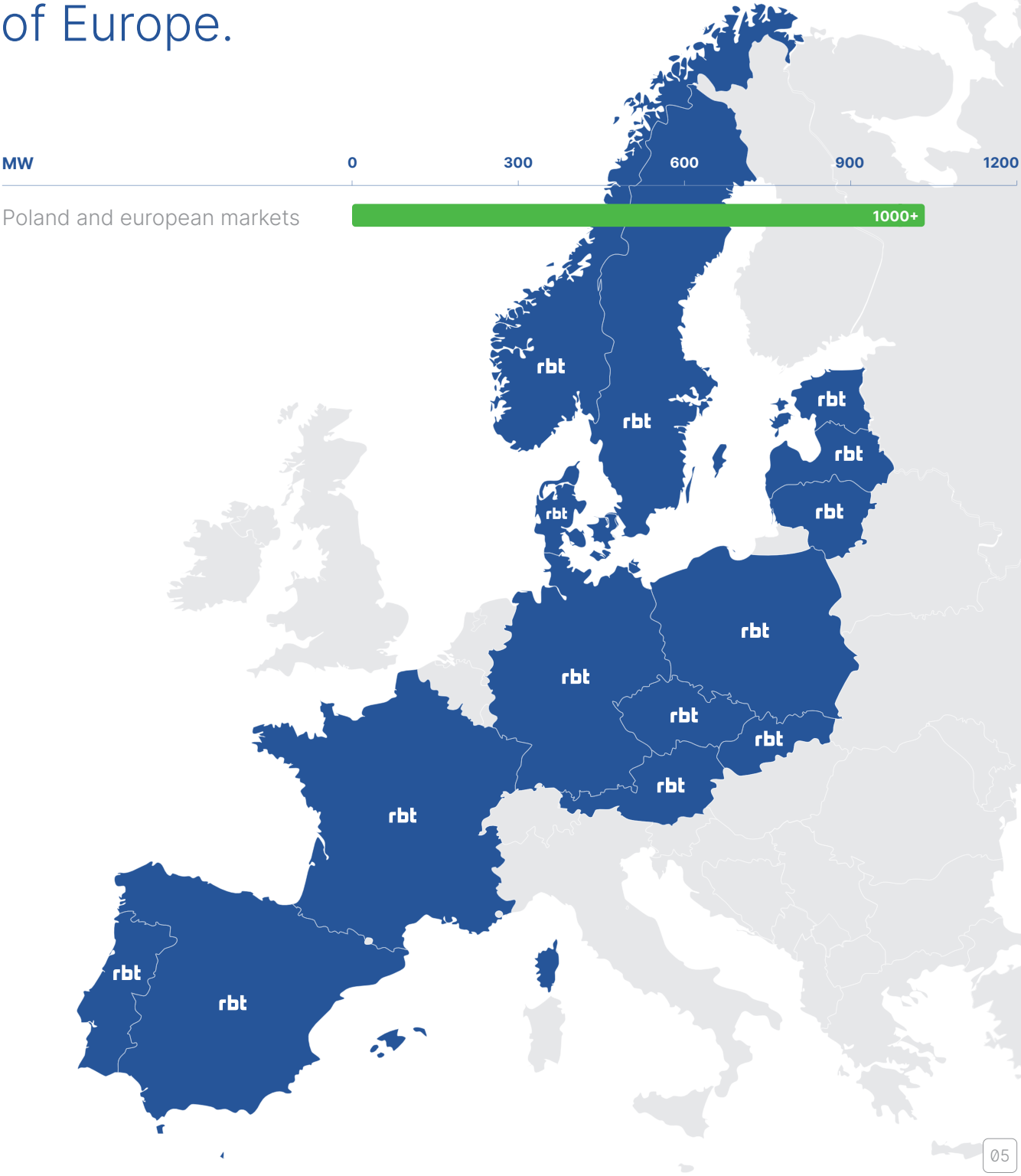
of experience in the industry

Why Choose Us?

+ We have our own **Design Department**, staffed by industry-leading specialists.
+ We work with the **latest technologies** and **precision machinery**.
+ Our products meet **all safety standards**, and our production process is supported by a range of **certifications**.
+ Excellent **process optimization** allows us to **shorten project delivery time** and **reduce costs**.
+ With our **continuously expanding** production capabilities, we can handle even the most challenging orders

→ Learn more at **rbtsolar.com**

Our structures support the energy transformation of Europe.

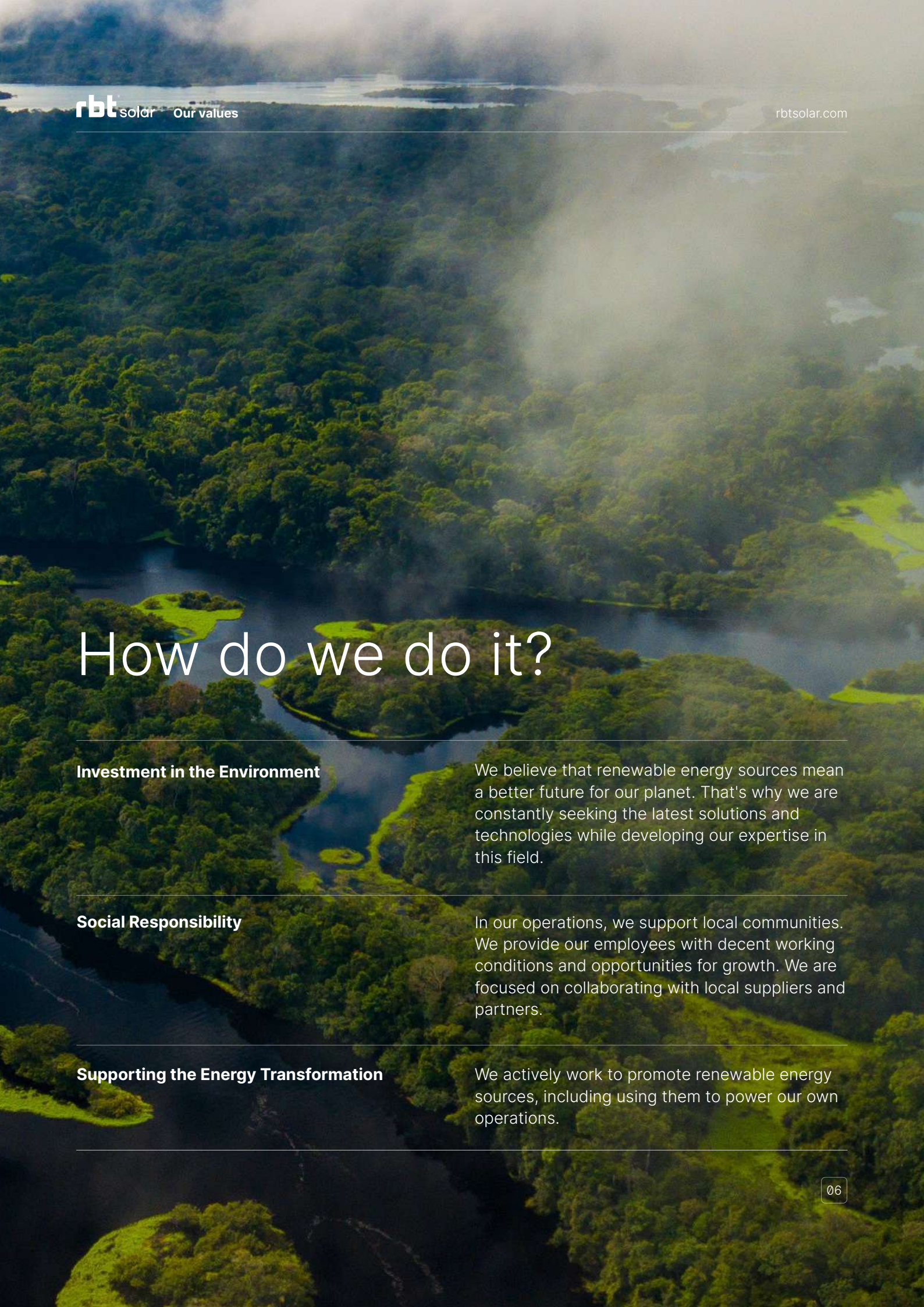


Our mission is to fulfill orders in a sustainable and environmentally friendly manner.

Only by **caring for today** can we give ourselves a chance for a **better tomorrow**.

We realize that a better tomorrow requires immediate action. Solar energy is a practically limitless, fully renewable, readily available source of power. That's why we are proud to support the development of eco-friendly energy by creating modern photovoltaic structure components. We believe that each of our products is a step toward a better and cleaner future, both for us and for our children.

Sustainable development and climate policy are of fundamental importance in the way we conduct our business. Preserving the natural environment for future generations to benefit from is one of our strategic goals and the foundation of our actions.



How do we do it?

Investment in the Environment

We believe that renewable energy sources mean a better future for our planet. That's why we are constantly seeking the latest solutions and technologies while developing our expertise in this field.

Social Responsibility

In our operations, we support local communities. We provide our employees with decent working conditions and opportunities for growth. We are focused on collaborating with local suppliers and partners.

Supporting the Energy Transformation

We actively work to promote renewable energy sources, including using them to power our own operations.

Innovative Solutions for Your Investments

We strive to continuously develop the solutions upon which we base our work. Our R&D department constantly explores how the latest technologies and unconventional materials can help create even better and more durable structural components. We aim for maximum flexibility and standardization of details, which translates into shorter project timelines and increased efficiency.

Our structures are characterized by:

Easy and Fast Assembly

+ Minimal number of connections and screws, with a simplified system of mounting holes,
+ Reduced likelihood of errors and shortened assembly time,
+ Standardization of details allows for easy replacement of any structural element,
+ Low project, production, and assembly costs.

Flexibility in Component Connection

Building structures from individual components can somewhat resemble building with blocks. Each element fits together perfectly, providing high flexibility and the ability to construct virtually any structure on any surface with any specifications.

Modern Designs

Our Design Department creates high-quality components that form the basis of innovative and well-thought-out products. We use standardized, complementary elements for each photovoltaic installation, allowing us to approach each project individually.

As one of the leading manufacturers of photovoltaic structures, we provide a range of benefits:

+ Precise, Repeatable Production	We operate in production facilities with a total area of over 7500 square meters. Thanks to years of developed know-how, we are capable of producing precision-made components on a large scale with optimal parameters.
+ Durability You Can Trust	To achieve high durability, verified through rigorous testing, we use top-quality materials that we process ourselves. This gives us full control at every stage of production.
+ Uncompromising Quality	As one of the largest manufacturers in the industry, we collaborate with the best steel suppliers. This ensures the highest quality while maintaining favorable prices.
+ Research and Continuous Development	To continuously set new standards, we have developed our own R&D department. We explore modern methods of processing and production, selecting the right materials for them.
+ Relationship Focus	We are always open to feedback and suggestions from our partners and clients. Your input is invaluable to us.

Quality Confirmed by Certificates and Awards

The structural components we produce have all the necessary certifications and meet stringent standards. They are safe, durable, and approved for use in Poland and the European Union.

The quality, stability, and reliability of the Rex-Bud Group are also recognized by experts, as evidenced by numerous awards received, including the Forbes Diamonds award five times.

Training Center

Our customers and partners can make use of our training center. The knowledge acquired there will enable them to build photovoltaic structures using our components in the best possible way. In this place, you will get a closer look at our products and learn more about various collaboration opportunities.

State-of-the-Art Machinery Park

We utilize the well-equipped machinery park of the Rex-Bud Group on a daily basis. Thanks to advanced technologies, supported by a dedicated team of employees, we are strengthening our position as an industry leader in both the Polish and European markets. We continuously improve our extensive technological infrastructure and enhance what is already good. Our goal is to set trends rather than follow them.

Product Certification and Testing

PARTNER RAWLPLUG®

We are supported by Rawlplug, a global leader and expert in fasteners, connectors, and tools with over 100 years of tradition, in the testing and evaluation of the quality of our products.

Thanks to this partnership, we are confident that every component leaving our factory meets the most stringent technological standards and will not let you down in critical moments. Quality does not tolerate compromises.

In-House Design Office

We approach every project comprehensively. We are also flexible, recognizing constraints such as budget limitations. The experience and knowledge of the designers, engineers, and constructors in our Design Office have often allowed us to turn these constraints into successes.

rbt solar

Discover our structures:

Flat roof →

Carports →

Ground →

Facade →

Trackers →

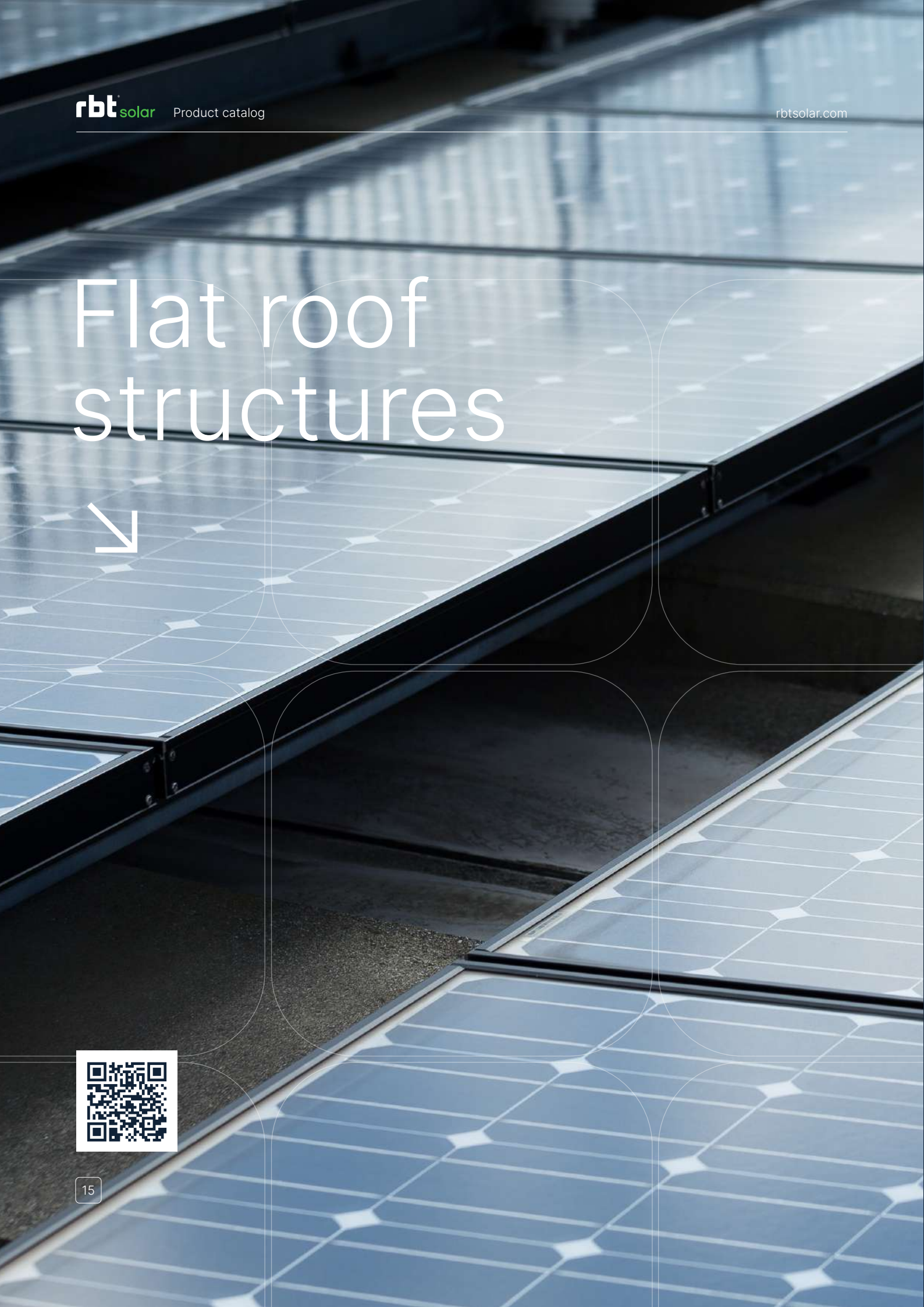
Cable trays →

Get in touch with us →

rbtsolar.com →

If you are scrolling this catalog using a web browser or have downloaded it to your disk, you can click on the table of contents items, to jump directly to relevant sections. At any time, you can return to the table of contents by clicking the ← button.

Flat roof structures



Flat roof structures (FR)

STRUCTURE	CARD NO.	CONSTRUCION TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH	PAGE
Welded structure (FR-W)	01	Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100	17
	02	Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100	20
						2300	
						2500	
	03	Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950	23
	04	Universal (US)	East-west (EW)	Horizontal (H)	Short side (SA)	2100	26
	05	Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100	29
						2300	
						2500	
	06	Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual	32
	07	Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual	35
	08	Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	Individual	38
	09	Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual	41
	10	Projected (PS)	East-west (EW)	Horizontal (H)	Long side (LAZ)	Individual	44
Ballast structure (FR-B)	11	Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100	47
	12	Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100	50
		Universal (US)	South (S)	Horizontal (H)		2300	
		Universal (US)	South (S)	Horizontal (H)		2500	
	13	Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950	53
	14	Universal (US)	East-west (EW)	Horizontal (H)	Short side (SA)	2100	56
	15	Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100	59
		Universal (US)	East-west (EW)	Horizontal (H)		2300	
		Universal (US)	East-west (EW)	Horizontal (H)		2500	
	16	Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual	62
	17	Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual	65
	18	Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	Individual	68
	19	Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual	71
	20	Projected (PS)	East-west (EW)	Horizontal (H)	Long side (LAZ)	Individual	74
Screw-on structure (FR-S)	21	Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100	77
	22	Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100	80
		Universal (US)	South (S)	Horizontal (H)		2300	
		Universal (US)	South (S)	Horizontal (H)		2500	
	23	Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950	83
	24	Universal (US)	East-west (EW)	Horizontal (H)	Short side (SA)	2100	86
	25	Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100	89
		Universal (US)	East-west (EW)	Horizontal (H)		2300	
		Universal (US)	East-west (EW)	Horizontal (H)		2500	
	26	Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual	92
	27	Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual	95
	28	Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	Individual	98
	29	Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual	101
	30	Projected (PS)	East-west (EW)	Horizontal (H)	Long side (LAZ)	Individual	104

Projected structures are made for an individual order with 4 week production period.
Universal structures are currently in stock and available on hand.

01 Welded structure

FR-W-US-S/H/SA/MAX-LONG2100

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100

SEE ONLINE →

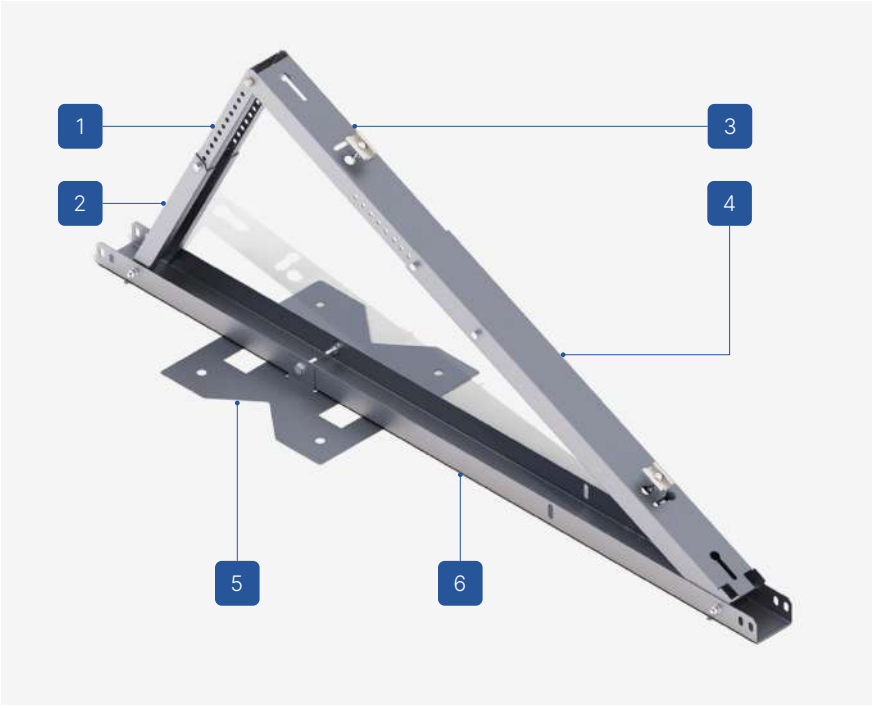
DESCRIPTION

- Multi-part structure, made of Magnelis™ sheet metal, intended for flat roofs, without the need additional ballast.
- Created with the participation of a specialist in the installation ofmembrane coverings.
- Its unique shape has been designed to significantly reduce assembly time and maximize the force necessary to remove the base.
- Non-invasive assembly with welding technology using the, so called, leister (in the case of PVC) or a gas burner (in the case of bitumen felt).
- High durability of the welded system is confirmed by specialized laboratory tests.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- Only one welded base per support is required for proper installation.
- Optionally - a hybrid system that allows the base to be welded and at the same time to load the wind deflector with ballast (in roof areas particularly exposed to wind suction).

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)



1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Welded base for support
   RBTSOLAR-KD-PZ
6. Base south
   RBTSOLAR-KDPP_1_1560

CHARACTERISTICS	FR-W-US-S/H/SA/MAX-LONG2100
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Universal (US)
Module orientation	South (S)
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 welded to the roof surface
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)²	5,54
Purlin length (mm)	Without purlins
Wind brace length (mm)	2175
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
South

RBTSOLAR-FR-US-S

Welded base
for support

RBTSOLAR-KD-PZ

Self-locking nut
M8 DIN985 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

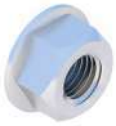
BLW55X25EPDMZ

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

Windchest
South support
L=2175/2355/2703mm

RBTSOLAR-KD-W-2175/2355/2703

Ballast wind shelter
South support
L=2175/2355/2703mm

RBTSOLAR-KD-WB-2175/2355/2703

02 Welded structure

FR-W-US-S/H/LAZ/MAX-LONG2100
FR-W-US-S/H/LAZ/MAX-LONG2300
FR-W-US-S/H/LAZ/MAX-LONG2500

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100 / 2300 / 2500

SEE ONLINE →

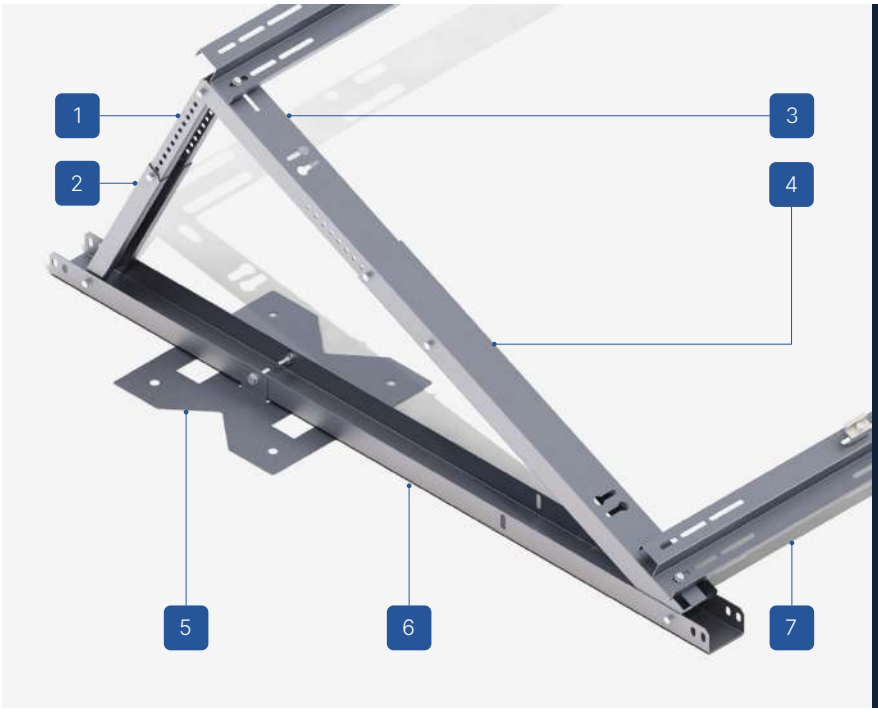
DESCRIPTION

- Multi-part structure, made of Magnelis™ sheet metal, intended for flat roofs, without the need additional ballast.
- Created with the participation of a specialist in the installation of membrane coverings.
- Its unique shape has been designed to significantly reduce assembly time and maximize the force necessary to remove the base.
- Non-invasive assembly with welding technology using the, so called, leister (in the case of PVC) or a gas burner (in the case of bitumen felt).
- High durability of the welded system is confirmed by specialized laboratory tests.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- Only one welded base per support is required for proper installation.
- Optionally - a hybrid system that allows the base to be welded and at the same time to load the wind deflector with ballast (in roof areas particularly exposed to wind suction).
- In case of mounting PV modules in a horizontal arrangement, an additional element are ZET profiles with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)



1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Welded base for support
   RBTSOLAR-KD-PZ
6. Base south
   RBTSOLAR-KDPP_1_1560
7. Purlin for support L=2175/2380/2728
   RBTSOLAR-KD-PL-2175/2380/2728

CHARACTERISTICS	FR-W-US-S/H/LAZ
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Horizontal (H)
How to install a PV module	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)?	Yes - possibility of additional ballasting of the wind tower
How to install the clamps	Clamps mounted to purlins - bean system
Method of distribution	Available in stock

	MAX-LONG2100	MAX-LONG2300	MAX-LONG2500
Approximate weight of the structure per 1m2 of installation without additional ballast (kg/m2)2	9,76	8,54	7,26
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	2175	2355	2703
Maximum PV module length (mm)3	2100	2300	2500

[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
South

RBTSOLAR-FR-US-S

Welded base
for support

RBTSOLAR-KD-PZ

Self-locking nut
M8 DIN985 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

Purlin for support
L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

Allen screw
M8X35 DIN912 A2

SIM8X35A2

Windchest
South support
L=2175/2355/2703mm

RBTSOLAR-KD-W-2175/2355/2703

Ballast wind shelter
South support
L=2175/2355/2703mm

RBTSOLAR-KD-WB-2175/2355/2703

03 Welded structure

FR-W-US-S/V/LAZ/MAX-LONG1950

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950

SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis™ sheet metal, intended for flat roofs, without the need additional ballast.
- Created with the participation of a specialist in the installation ofmembrane coverings.
- Its unique shape has been designed to significantly reduce assembly time and maximize the force necessary to remove the base.
- Non-invasive assembly with welding technology using the, so called, leister (in the case of PVC) or a gas burner (in the case of bitumen felt).
- High durability of the welded system is confirmed by specialized laboratory tests.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- Only one welded base per support is required for proper installation.
- Optionally - a hybrid system that allows the base to be welded and at the same time to load the wind deflector with ballast (in roof areas particularly exposed to wind suction).

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Welded base for support
   RBTSOLAR-KD-PZ
6. Base south
   RBTSOLAR-KDPP_1_1560
7. Purlin for support L=2380
   RBTSOLAR-KD-PL-2380

CHARACTERISTICS	FR-W-US-S/V/LAZ/MAX-LONG1950
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
How to install a PV module	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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	5,54
Purlin length (mm)	2380
Wind brace length (mm)	2355
Maximum PV module length (mm)[3]	1950
How to install the clamps	Clamps mounted to purlins - bean 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
South

RBTSOLAR-FR-US-S

Welded base
for support

RBTSOLAR-KD-PZ

Self-locking nut
M8 DIN985 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

Purlin for support
L=2380

RBTSOLAR-KD-PL-2380

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

Allen screw
M8X35 DIN912 A2

SIM8X35A2

Windchest
South support
L=2355

RBTSOLAR-KD-W-2355

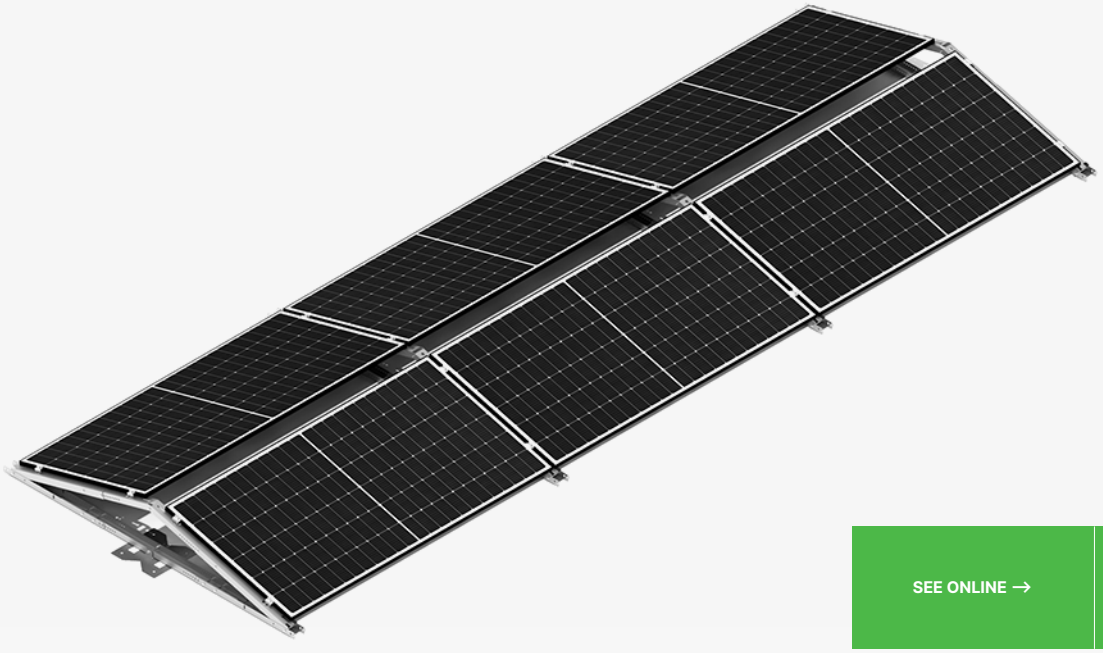
Ballast wind shelter
South support
L=2355

RBTSOLAR-KD-WB-2355

04 Welded structure

FR-W-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



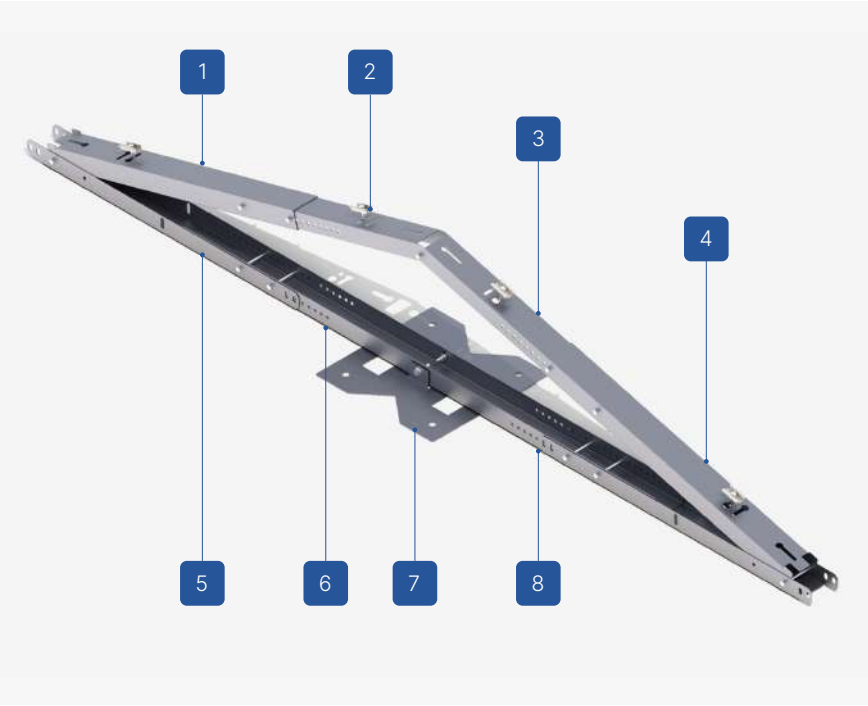
SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis™ sheet metal, intended for flat roofs, without the need additional ballast.
- Created with the participation of a specialist in the installation of membrane coverings.
- Its unique shape has been designed to significantly reduce assembly time and maximize the force necessary to remove the base.
- Non-invasive assembly with welding technology using the, so called, leister (in the case of PVC) or a gas burner (in the case of bitumen felt),
- High durability of the welded system is confirmed by specialized laboratory tests.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- Only one welded base per support is required for proper installation.

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 welded to the membrane.

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-KDWZL_7_1544
7. Welded base for support
   RBTSOLAR-KD-PZ
8. End telescope - base
   RBTSOLAR-KDWZP_6_880

CHARACTERISTICS	FR-W-US-EW/H/SA/MAX-LONG2100
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
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 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 1m² of installation without additional ballast (kg/m²)[2]	9,49
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

Welded base
for support

RBTSOLAR-KD-PZ

Self-locking nut
M8 DIN985 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

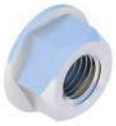
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

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

05 Welded structure

FR-W-US-EW/H/LAZ/MAX-LONG2100
FR-W-US-EW/H/LAZ/MAX-LONG2300
FR-W-US-EW/H/LAZ/MAX-LONG2500

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100 / 2300 / 2500

SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis™ sheet metal, intended for flat roofs, without the needadditional ballast.
- Created with the participation of a specialist in the installation of membrane coverings.
- Its unique shape has been designed to significantly reduce assembly time and maximize the force necessary to remove the base.
- Non-invasive assembly with welding technology using the, so called, leister (in the case of PVC) or a gas burner (in the case of bitumen felt),
- High durability of the welded system is confirmed by specialized laboratory tests.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- Only one welded base per support is required for proper installation,
- Optionally - a hybrid system that allows the base to be welded and at the same time to load the wind deflector with ballast (in roof areas particularly exposed to wind suction).
- In the case of mounting PV modules in a horizontal arrangement, an additional element are ZET profiles with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

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 welded to the membrane.

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. Purlin for support L=2175/2380/2728
   RBTSOLAR-KD-PL-2175/2380/2728
5. Lower telescope - long side
   RBTSOLAR-KDR_2_825
6. End telescope - base
   RBTSOLAR-KDWZP_6_880
7. Middle telescope - base
   RBTSOLAR-KDWZL_7_1544
8. Welded base for support
   RBTSOLAR-KD-PZ
9. End telescope - base
   RBTSOLAR-KDWZP_6_880

CHARACTERISTICS	FR-W-US-EW/H/LAZ
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Universal (US)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module	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
How to install the clamps	Clamps mounted to purlins - bean system
Method of distribution	Available in stock

	MAX-LONG2100	MAX-LONG2300	MAX-LONG2500
Approximate weight of the structure per 1m2 of installation without additional ballast (kg/m2)2	16,80	15,05	12,89
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	Without wind guard	Without wind guard	Without wind guard
Maximum PV module length (mm)3	2100	2300	2500

[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

Welded base
for support

RBTSOLAR-KD-PZ

Self-locking nut
M8 DIN985 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

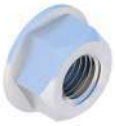
Purlin for support
L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

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

06 Welded structure

FR-W-PS-S/H/SA/MAX-LONG-X

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual (X)

SEE ONLINE →

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).

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Short arm
2. Long arm
3. Welded base for support
4. Base south

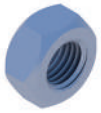
CHARACTERISTICS	FR-W-PS-S/H/SA/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Projected (PS)
Module orientation	South (S)
Module layout	Horizontal (H)
How to install a PV module[1]	Short side (SA)
Application/substrate on which it is mounted	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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~13,5
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION

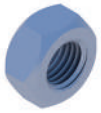
Welded base
for support

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
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

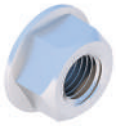
BLW55X25EPDMZ

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

Windchest
South support
L=X

RBTSOLAR-KD-W-X

07 Welded structure

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

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual (X)

SEE ONLINE →

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.

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Short arm
2. Long arm
3. Welded base for support
4. Base south
5. Purlin

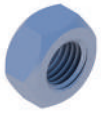
CHARACTERISTICS	FR-W-PS-S/H/LAZ/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Projected (PS)
Module orientation	South (S)
Module layout	Horizontal (H)
How to install a PV module[1]	Long side (LAZ)
Application/substrate on which it is 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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~16,5
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION

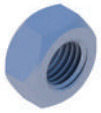
Welded base
for support

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

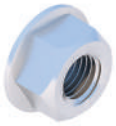
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

Windchest
South support
L=X

RBTSOLAR-KD-W-X

08 Welded structure

FR-W-PS-S/V/LAZ/MAX-LONG1950

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	1950

SEE ONLINE →

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.

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Short arm
2. Long arm
3. Welded base for support
4. Purlin

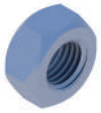
CHARACTERISTICS	FR-W-PS-S/V/LAZ/MAX-LONG1950
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Projected (PS)
Module orientation	South (S)
Module layout	Vertical (V)
How to install a PV module[1]	Long side (LAZ)
Application/substrate on which it is 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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~16,5
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION

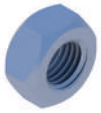
Welded base
for support

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

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

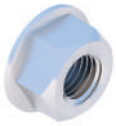
KLK50/30(32/35/40)ALN
KLK50/30(32/35/40)ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Allen screw
M8X35 DIN912 A2

SIM8X35A2



Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Windchest
South support
L=X

RBTSOLAR-KD-W-X

09 Welded structure

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

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual (X)

SEE ONLINE →

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.

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 welded to the membrane.

Flat roof structures (FR)

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

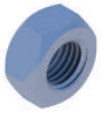
CHARACTERISTICS	FR-W-PS-EW/H/SA/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Projected (PS)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module[1]	Short side (SA)
Application/substrate on which it 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 1m² of installation without additional ballast (kg/m²)[2]	~16,5
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

LIST OF PARTS - BASE OF CONSTRUCTION

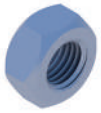
Welded base
for support

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
M10X20 IE

SM10X20Z

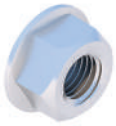
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

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

10 Welded structure

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

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	East-west (EW)	Horizontal (H)	Long side (LAZ)	Individual (X)

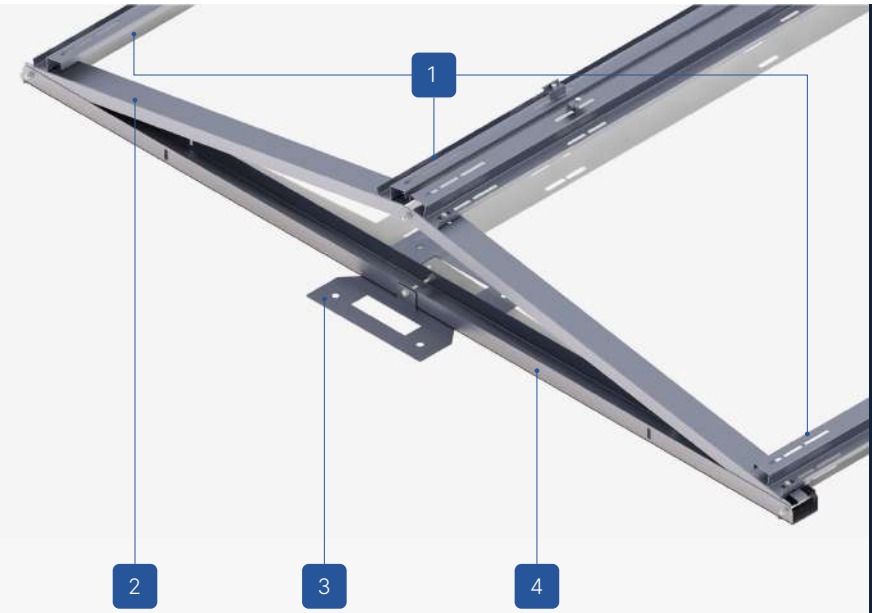
SEE ONLINE →

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.

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 welded to the membrane.

Flat roof structures (FR)



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

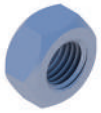
CHARACTERISTICS	FR-W-PS-EW/H/LAZ/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Welded (W)
Type of construction	Projected (PS)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module[1]	Long side (LAZ)
Application/substrate on which 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 1m² of installation without additional ballast (kg/m²)[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

LIST OF PARTS - BASE OF CONSTRUCTION

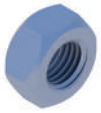
Welded base
for support

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

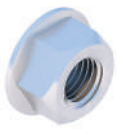
Purlin for support
L=X

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

11 Ballast structure

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

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100

SEE ONLINE →

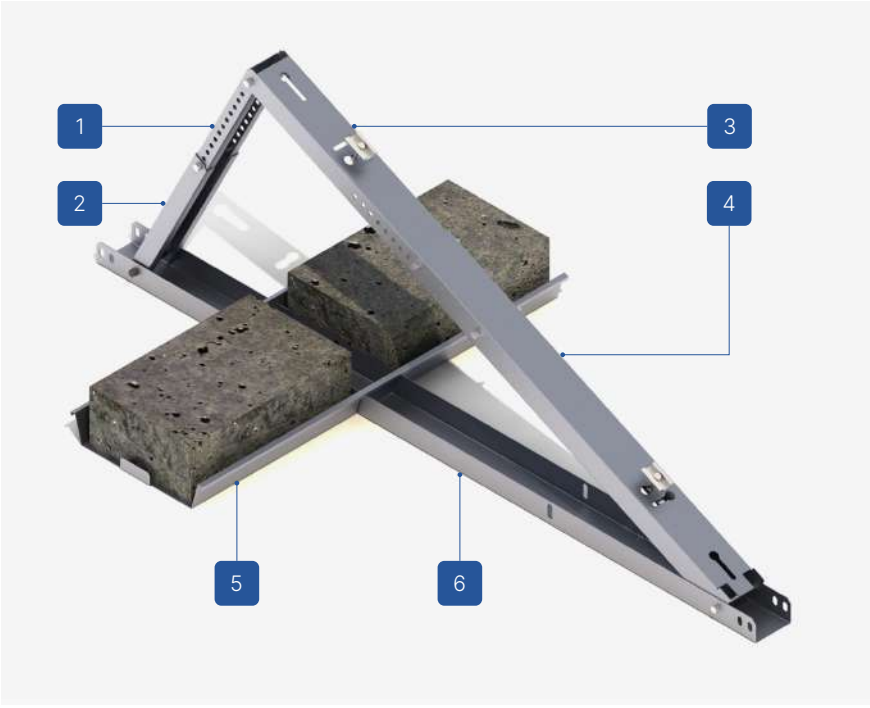
DESCRIPTION

- → Multi-part structure, made of Magnelis™ sheet metal, intended for flat roofs, where additional ballast is neccessary, 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.
- → The system allows you to add weight to the base and simultaneously load the wind deflector with ballast (in roof areas particularly exposed to wind suction).

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.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)



1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Omega for support
   (Base for ballast blocks)
   RBTSOLAR-KD-PB
6. Base south
   RBTSOLAR-KDPP_1_1560

CHARACTERISTICS	FR-B-US-S/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	South (S)
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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	6,40
Purlin length (mm)	Without purlins
Wind brace length (mm)	2175
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
South

RBTSOLAR-FR-US-S

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

Sheet metal screw
OC 5.5X25 EPDM

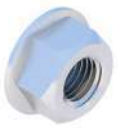
BLW55X25EPDMZ

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

Windchest
South support
L=2175/2355/2703mm

RBTSOLAR-KD-W-2175/2355/2703

Ballast wind shelter
South support
L=2175/2355/2703mm

RBTSOLAR-KD-WB-2175/2355/2703

12 Ballast structure

FR-B-US-S/H/LAZ/MAX-LONG2100
FR-B-US-S/H/LAZ/MAX-LONG2300
FR-B-US-S/H/LAZ/MAX-LONG2500

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100 / 2300 / 2500

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.
- The system allows you to add weight to the base and simultaneously load the wind deflector with ballast (in roof areas particularly exposed to wind suction).
- In case of mounting PV modules in a horizontal arrangement, an additional element are ZET profiles with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

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.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Omega for support
   (Base for ballast blocks)
   RBTSOLAR-KD-PB
6. Base south
   RBTSOLAR-KDPP_1_1560
7. Purlin for support L=2175/2380/2728
   RBTSOLAR-KD-PL-2175/2380/2728

CHARACTERISTICS	FR-B-US-S/H/LAZ
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Horizontal (H)
How to install a PV module	Long side (LAZ)
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)?	Yes - possibility of additional ballasting of the wind tower
How to install the clamps	Clamps mounted to purlins - bean system
Method of distribution	Available in stock

	MAX-LONG2100	MAX-LONG2300	MAX-LONG2500
Approximate weight of the structure per 1m2 of installation without additional ballast (kg/m2)2	10,22	10,61	11,20
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	2175	2355	2703
Maximum PV module length (mm)3	2100	2300	2500

[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
South

RBTSOLAR-FR-US-S

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

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

Purlin for support
L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

Allen screw
M8X35 DIN912 A2

SIM8X35A2

Windchest
South support
L=2175/2355/2703mm

RBTSOLAR-KD-W-2175/2355/2703

Ballast wind shelter
South support
L=2175/2355/2703mm

RBTSOLAR-KD-WB-2175/2355/2703

13 Ballast structure

FR-B-US-S/V/LAZ/MAX-LONG1950

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950

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.
- The system allows you to add weight to the base and simultaneously load the wind deflector with ballast (in roof areas particularly exposed to wind suction).
- In case of mounting PV modules in a vertical arrangement, an additional element are ZET profiles with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

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.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Omega for support
   (Base for ballast blocks)
   RBTSOLAR-KD-PB
6. Base south
   RBTSOLAR-KDPP_1_1560
7. Purlin for support L=2380
   RBTSOLAR-KD-PL-2380

CHARACTERISTICS	FR-B-US-S/V/LAZ/MAX-LONG1950
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vetrical (V)
How to install a PV module	Long side (LAZ)
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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	5,78
Purlin length (mm)	2380
Wind brace length (mm)	2355
Maximum PV module length (mm)[3]	1950
How to install the clamps	Clamps mounted to purlins - bean 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
South

RBTSOLAR-FR-US-S

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

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

Purlin for support
L=2380

RBTSOLAR-KD-PL-2380

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

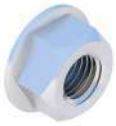
BLW55X25EPDMZ

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

Windchest
South support
L=2355

RBTSOLAR-KD-W-2355

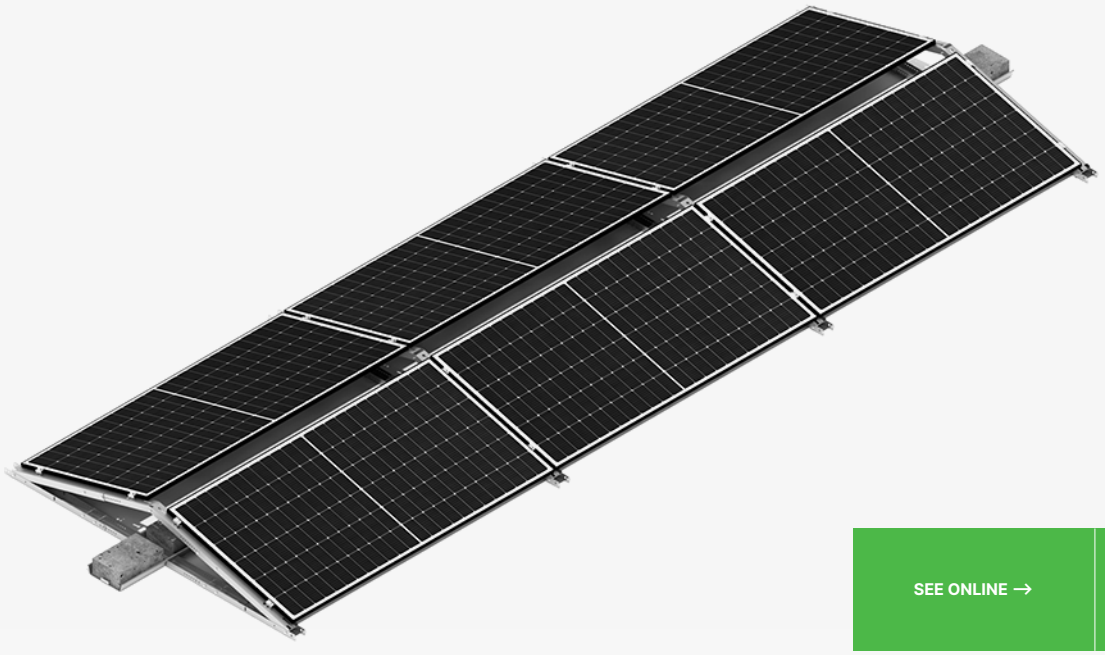
Ballast wind shelter
South support
L=2355

RBTSOLAR-KD-WB-2355

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



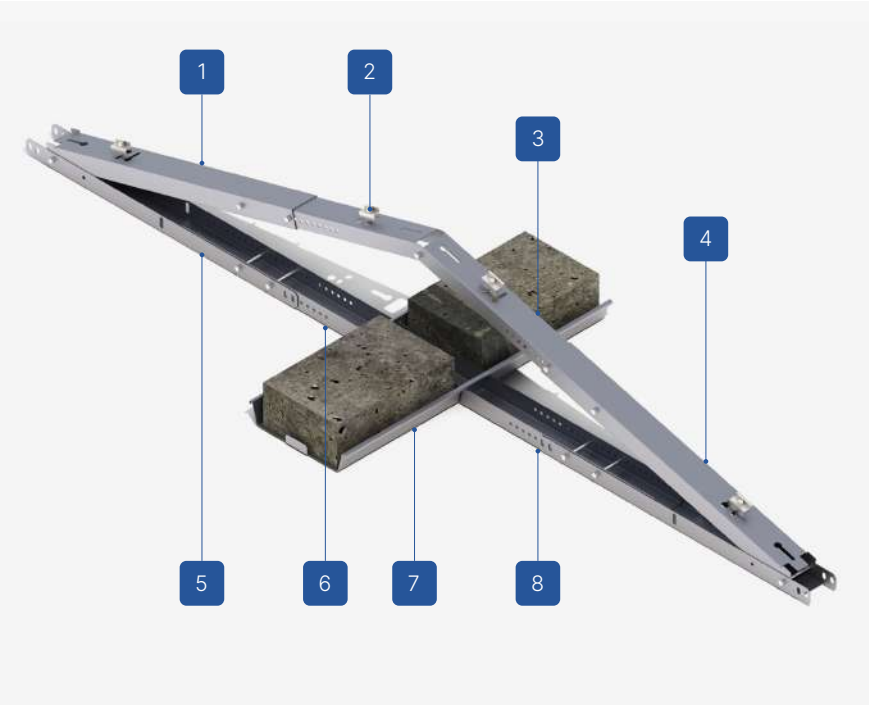
SEE ONLINE →

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

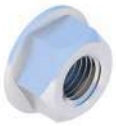
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

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

15 Ballast structure

FR-B-US-EW/H/LAZ/MAX-LONG2100
FR-B-US-EW/H/LAZ/MAX-LONG2300
FR-B-US-EW/H/LAZ/MAX-LONG2500

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100 / 2300 / 2500

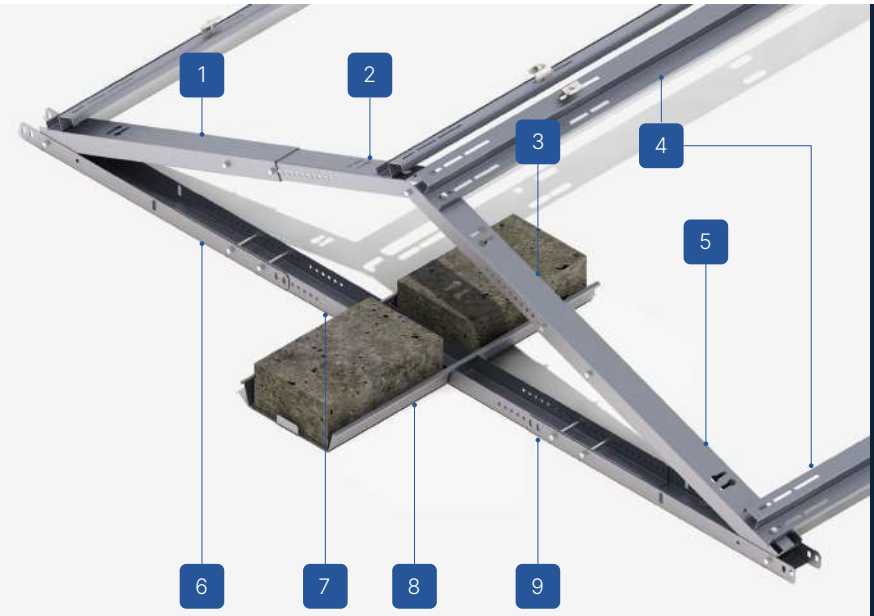
SEE ONLINE →

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.
- → In the case of mounting PV modules in a horizontal arrangement, an additional element are ZET profiles with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

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. Purlin for support L=2175/2380/2728
   RBTSOLAR-KD-PL-2175/2380/2728
5. Lower telescope - long side
   RBTSOLAR-KDR_2_825
6. End telescope - base
   RBTSOLAR-KDWZP_6_880
7. Middle telescope - base
   RBTSOLAR-KDWZŁ_7_1544
8. Omega for support
   (Base for ballast blocks)
   RBTSOLAR-KD-PB
9. End telescope - base
   RBTSOLAR-KDWZP_6_880

CHARACTERISTICS	FR-B-US-EW/H/LAZ
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	Long side (LAZ)
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
How to install the clamps	Clamps mounted to purlins - bean system
Method of distribution	Available in stock

	MAX-LONG2100	MAX-LONG2300	MAX-LONG2500
Approximate weight of the structure per 1m2 of installation without additional ballast (kg/m2)2	17,57	15,43	13,20
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	Without wind guard	Without wind guard	Without wind guard
Maximum PV module length (mm)3	2100	2300	2500

[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

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

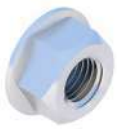
Purlin for support
L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

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

16 Ballast structure

FR-B-PS-S/H/SA/MAX-LONG-X

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual (X)

SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat roofs requiring additional ballast, without the possibility of using a welded structure.
- Non-invasive installation using an appropriate amount of ballast blocks, according to the ballast plan.
- The system allows for loading the base and simultaneously loading the wind deflector with ballast (in roof zones particularly exposed to wind suction).

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

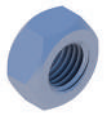
Flat roof structures (FR)

1. Short arm
2. Base south
3. Omega for support (Base for ballast blocks)
4. Long arm

CHARACTERISTICS	FR-B-PS-S/H/SA/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
Type of construction	Projected (PS)
Module orientation	South (S)
Module layout	Horizontal (H)
How to install a PV module[1]	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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~14,5
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

Hexagonal screw
M8X25 IE

SM8X25Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

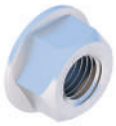
KLK50/30(32/35/40)ALN
KLK50/30(32/35/40)ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Allen screw
M8X35 DIN912 A2

SIM8X35A2



Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Windchest
South support
L=X

RBTSOLAR-KD-W-X

17 Ballast structure

FR-B-PS-S/H/LAZ/MAX-LONG-X

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual (X)

SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat roofs requiring additional ballast, without the possibility of using a welded structure.
- Non-invasive installation using an appropriate amount of ballast blocks, according to the ballast plan.
- The system allows for loading 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.

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

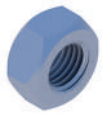
Flat roof structures (FR)

1. Short arm
2. Base south
3. Long arm
4. Omega for support (Base for ballast blocks)
5. Purlin

CHARACTERISTICS	FR-B-US-S/H/LAZ
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
Type of construction	Projected (PS)
Module orientation	South (S)
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 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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~17,5
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

Hexagonal screw
M8X25 IE

SM8X25Z

Purlin for support
L=X

RBTSOLAR-KD-PL-X

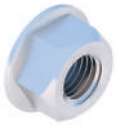
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

Windchest
South support
L=X

RBTSOLAR-KD-W-X

18 Ballast structure

FR-B-PS-S/V/LAZ/MAX-LONG1950

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	1950

SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat roofs requiring additional ballast, without the possibility of using a welded structure.
- Non-invasive installation using an appropriate amount of ballast blocks, according to the ballast plan.
- The system allows for loading 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.

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

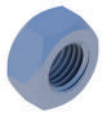
Flat roof structures (FR)

1. Short arm
2. Base south
3. Long arm
4. Omega for support (Base for ballast blocks)
5. Purlin

CHARACTERISTICS	FR-B-PS-S/V/LAZ/MAX-LONG1950
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
Type of construction	Projected (PS)
Module orientation	South (S)
Module layout	Vertical (V)
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 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)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~17,5
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

Hexagonal screw
M8X25 IE

SM8X25Z

Purlin for support
L=X

RBTSOLAR-KD-PL-X

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

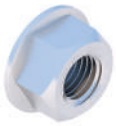
KLK50/30(32/35/40)ALN
KLK50/30(32/35/40)ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Allen screw
M8X35 DIN912 A2

SIM8X35A2



Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Windchest
South support
L=X

RBTSOLAR-KD-W-X

19 Ballast structure

FR-B-PS-EW/H/SA/MAX-LONG-X

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual (X)

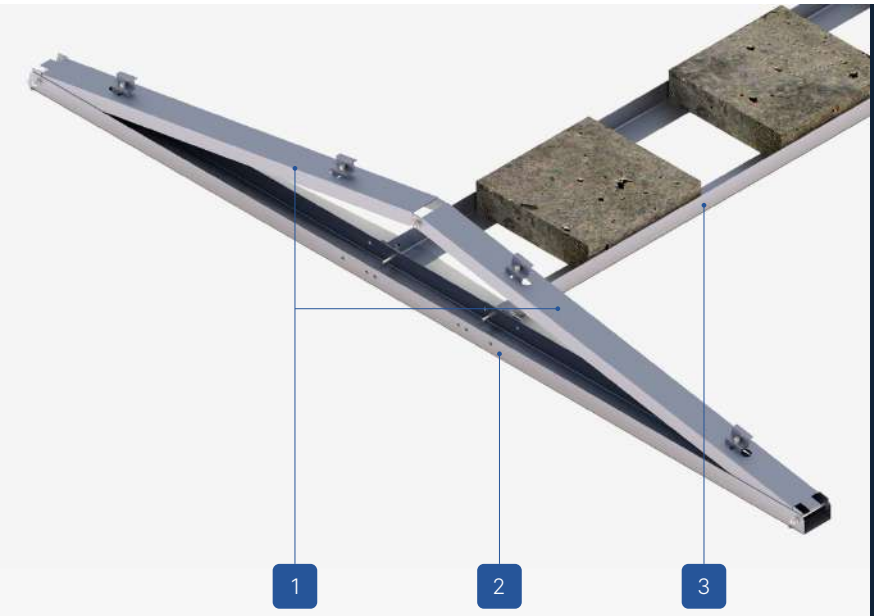
SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat roofs requiring additional ballast, without the possibility of using a welded structure.
- Non-invasive installation using an appropriate amount of ballast blocks, according to the ballast plan.

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 welded to the membrane.

Flat roof structures (FR)

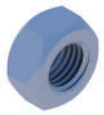


1. Long arm
2. Base east-west
3. Omega for support (Base for ballast blocks)

CHARACTERISTICS	FR-B-US-EW/H/SA/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
Type of construction	Projected (PS)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module[1]	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]	~13,5
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

Hexagonal screw
M8X25 IE

SM8X25Z

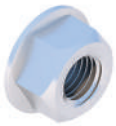
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

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

20 Ballast structure

FR-B-US-EW/H/LAZ/MAX-LONG-X

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	East-west (EW)	Horizontal (H)	Long side (LAZ)	Individual (X)

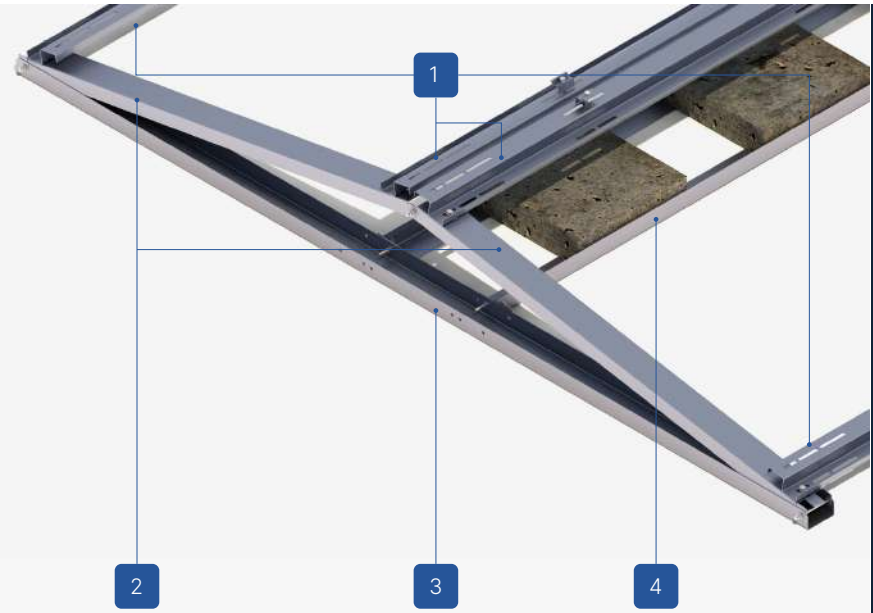
SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat roofs requiring additional ballast, without the possibility of using a welded structure.
- Non-invasive installation using an appropriate amount of ballast blocks, according to the ballast plan.
- 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.

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 welded to the membrane.

Flat roof structures (FR)

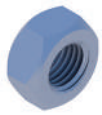


1. Purlin
2. Long arm
3. Base east-west
4. Omega for support (Base for ballast blocks)

CHARACTERISTICS	FR-B-PS-EW/H/LAZ/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Ballast (B)
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 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]	~16,5
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

Hexagonal screw
M8X25 IE

SM8X25Z

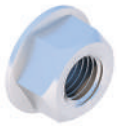
Purlin for support
L=X

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

21 Screw-on structure

FR-S-US-S/H/SA/MAX-LONG2100

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Horizontal (H)	Short side (SA)	2100

SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis sheet, intended for flat or sloping roofs, without the need for additional ballasting and without the possibility of using a welded structure.
- Invasive installation system, by attaching to the roof substructure using the appropriate number of screws.
- 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.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Base south
   RBTSOLAR-KDPP_1_1560

CHARACTERISTICS	FR-S-US-S/H/SA/MAX-LONG2100
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Horizontal (H)
How to install a PV module	Short side (SA)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	5,15
Purlin length (mm)	Without purlins
Wind brace length (mm)	2175
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
South

RBTSOLAR-FR-US-S

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

Sheet metal screw
OC 5.5X25 EPDM

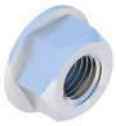
BLW55X25EPDMZ

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

Windchest
South support
L=2175/2355/2703mm

RBTSOLAR-KD-W-2175/2355/2703

Ballast wind shelter
South support
L=2175/2355/2703mm

RBTSOLAR-KD-WB-2175/2355/2703

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

22 Screw-on structure

FR-S-US-S/H/LAZ/MAX-LONG2100
FR-S-US-S/H/LAZ/MAX-LONG2300
FR-S-US-S/H/LAZ/MAX-LONG2500

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Horizontal (H)	Long side (LAZ)	2100 / 2300 / 2500

SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis sheet, intended for flat or sloping roofs, without the need for additional ballasting and without the possibility of using a welded structure.
- Invasive installation system, by attaching to the roof substructure using the appropriate number of screws.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- In case of mounting PV modules in a vertical arrangement and with a side length exceeding 2100 mm in a horizontal arrangement, ZET profiles are an additional element with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

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.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Base south
   RBTSOLAR-KDPP_1_1560
6. Purlin for support L=2175/2380/2728
   RBTSOLAR-KD-PL-2175/2380/2728

CHARACTERISTICS	FR-S-US-S/H/LAZ
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Horizontal (H)
How to install a PV module	Long side (LAZ)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	Yes - possibility of additional ballasting of the wind tower
How to install the clamps	Clamps mounted to purlins - bean system
Method of distribution	Available in stock

	MAX-LONG2100	MAX-LONG2300	MAX-LONG2500
Approximate weight of the structure per 1m2 of installation without additional ballast (kg/m2)2	8,96	9,35	6,72
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	2175	2355	2703
Maximum PV module length (mm)3	2100	2300	2500

[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
South

RBTSOLAR-FR-US-S

Self-locking nut
M8 DIN985 A2

Round washer
A2 8.4 DIN125A

Allen screw
M8X100 DIN912 A2

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

Purlin for support
L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

Allen screw
M8X35 DIN912 A2

SIM8X35A2

Windchest
South support
L=2175/2355/2703mm

RBTSOLAR-KD-W-2175/2355/2703

Ballast wind shelter
South support
L=2175/2355/2703mm

RBTSOLAR-KD-WB-2175/2355/2703

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

23 Screw-on structure

FR-S-US-S/V/LAZ/MAX-LONG1950

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	South (S)	Vertical (V)	Long side (LAZ)	1950

SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis sheet, intended for flat or sloping roofs, without the need for additional ballasting and without the possibility of using a welded structure.
- Invasive installation system, by attaching to the roof substructure using the appropriate number of screws.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- In case of mounting PV modules in a vertical arrangement and with a side length exceeding 2100 mm in a horizontal arrangement, ZET profiles are an additional element with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

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.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

Flat roof structures (FR)

1. Upper telescope - short side
   RBTSOLAR-KDPT_5_365
2. Lower telescope - short side
   RBTSOLAR-KDPT_4_350
3. Upper telescope - long side
   RBTSOLAR-KDT_3_825
4. Lower telescope - long side
   RBTSOLAR-KDR_2_825
5. Base south
   RBTSOLAR-KDPP_1_1560
6. Purlin for support L=2380
   RBTSOLAR-KD-PL-2380

CHARACTERISTICS	FR-S-US-S/V/LAZ/MAX-LONG1950
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
How to install a PV module	Long side (LAZ)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	5,1
Purlin length (mm)	2380
Wind brace length (mm)	2355
Maximum PV module length (mm)[3]	1950
How to install the clamps	Clamps mounted to purlins - bean 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
South

RBTSOLAR-FR-US-S

Self-locking nut
M8 DIN985 A2

Round washer
A2 8.4 DIN125A

Allen screw
M8X100 DIN912 A2

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

Purlin for support
L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

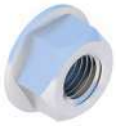
BLW55X25EPDMZ

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

Windchest
South support
L=2355

RBTSOLAR-KD-W-2355

Ballast wind shelter
South support
L=2355

RBTSOLAR-KD-WB-2355

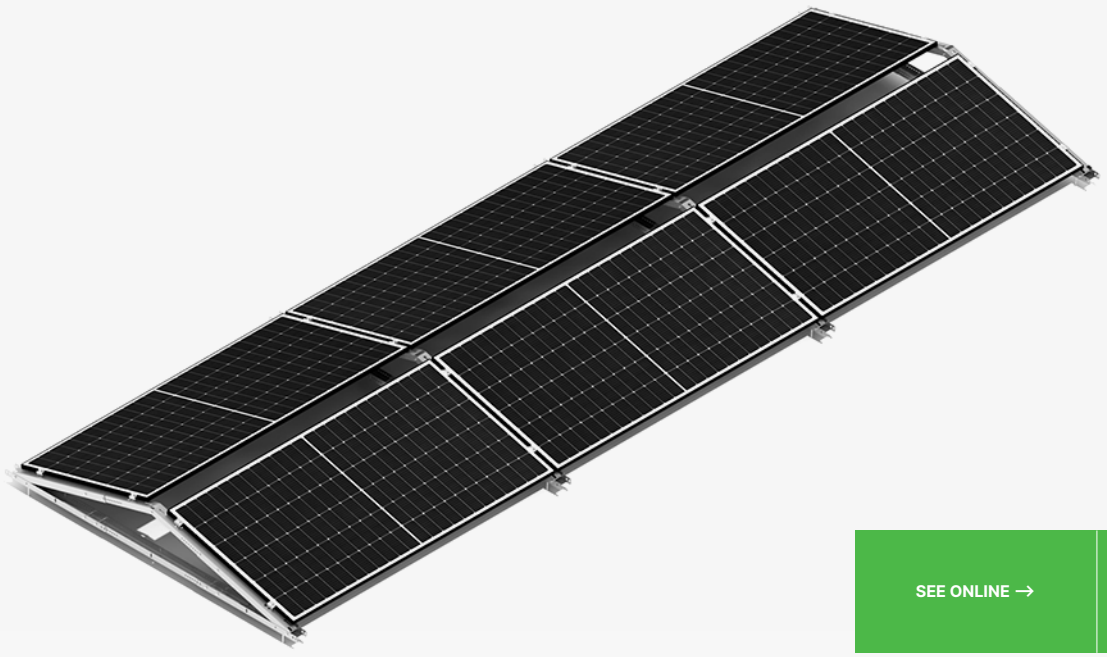
M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

24 Screw-on structure

FR-S-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



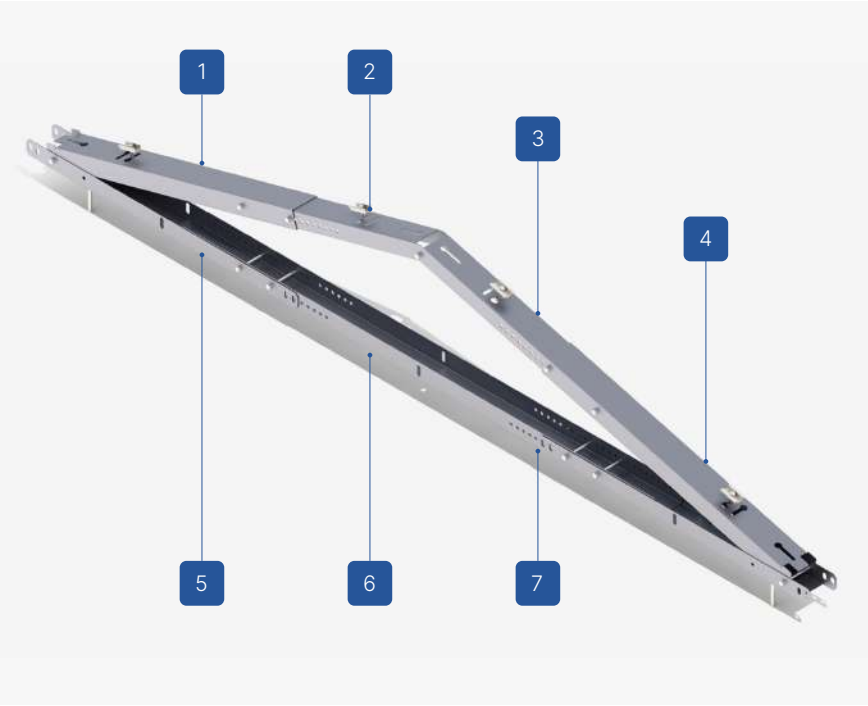
SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis sheet, intended for flat or sloping roofs, without the need for additional ballasting and without the possibility of using a welded structure.
- Invasive installation system, by attaching to the roof substructure using the appropriate number of screws.
- 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. End telescope - base
   RBTSOLAR-KDWZP_6_880

CHARACTERISTICS	FR-S-US-EW/H/SA/MAX-LONG2100
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
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/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
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]	8,69
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

Self-locking nut
M8 DIN985 A2

NSHM8A2

Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

SIM8X100A2

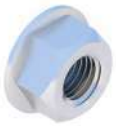
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

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

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

25 Screw-on structure

FR-S-US-EW/H/LAZ/MAX-LONG2100
FR-S-US-EW/H/LAZ/MAX-LONG2300
FR-S-US-EW/H/LAZ/MAX-LONG2500

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Universal (US)	East-west (EW)	Horizontal (H)	Long side (LAZ)	2100 / 2300 / 2500

SEE ONLINE →

DESCRIPTION

- Multi-part structure, made of Magnelis sheet, intended for flat or sloping roofs, without the need for additional ballasting and without the possibility of using a welded structure.
- Invasive installation system, by attaching to the roof substructure using the appropriate number of screws.
- Ready to be used for modules of various power and sizes, thanks to the use of two adjustable telescopic arms.
- In case of mounting PV modules in a vertical arrangement and with a side length exceeding 2100 mm in a horizontal arrangement, ZET profiles are an additional element with bean holes, to which the modules are mounted using clamps and an M8 Allen screw.

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. Purlin for support L=2175/2380/2728
   RBTSOLAR-KD-PL-2175/2380/2728
5. Lower telescope - long side
   RBTSOLAR-KDR_2_825
6. End telescope - base
   RBTSOLAR-KDWZP_6_880
7. Middle telescope - base
   RBTSOLAR-KDWZŁ_7_1544
8. End telescope - base
   RBTSOLAR-KDWZP_6_880

CHARACTERISTICS	FR-S-US-EW/H/LAZ
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Universal (US)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module	Long side (LAZ)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	No
How to install the clamps	Clamps mounted to purlins - bean system
Method of distribution	Available in stock

	MAX-LONG2100	MAX-LONG2300	MAX-LONG2500
Approximate weight of the structure per 1m2 of installation without additional ballast (kg/m2)2	13,61	14,38	12,35
Purlin length (mm)	2175	2380	2728
Wind brace length (mm)	Without wind guard	Without wind guard	Without wind guard
Maximum PV module length (mm)3	2100	2300	2500

[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

Self-locking nut
M8 DIN985 A2

NSHM8A2

Round washer
A2 8.4 DIN125A

PPM8A2

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

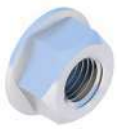
Purlin for support
L=2175/2380/2728

RBTSOLAR-KD-PL-2175/2380/2728

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

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

26 Screw-on structure

FR-S-PS-S/H/SA/MAX-LONG-X

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Horizontal (H)	Short side (SA)	Individual (X)

SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat or sloped roofs, without the need for additional ballast and without the possibility of using a welded structure.
- An invasive installation system, by fastening to the roof substructure using an appropriate number of screws.

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

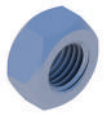
Flat roof structures (FR)

1. Short arm
2. Long arm
3. Base south

CHARACTERISTICS	FR-S-PS-S/H/SA/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Projected (PS)
Module orientation	South (S)
Module layout	Horizontal (H)
How to install a PV module[1]	Short side (SA)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~13
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION



Nakrętka sześciokątna
M8 TZN

NM8Z

Podkładka
M8 TZN

PPM8Z

Śruba
M8X97 TZN

SM8X97Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

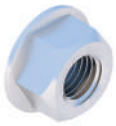
KLK50/30(32/35/40)ALN
KLK50/30(32/35/40)ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Allen screw
M8X35 DIN912 A2

SIM8X35A2



Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Windchest
South support
L=X

RBTSOLAR-KD-W-X

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

27 Screw-on structure

FR-S-PS-S/H/LAZ/MAX-LONG-X

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Horizontal (H)	Long side (LAZ)	Individual (X)

SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat or sloped roofs, without the need for additional ballast and without the possibility of using a welded structure.
- An invasive installation system, by fastening to the roof substructure using an appropriate number of screws.
- In the case of installing PV modules in a vertical layout or with a side length exceeding 2100 mm 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.

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

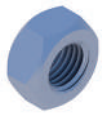
Flat roof structures (FR)

1. Short arm
2. Long arm
3. Base south
4. Purlin

CHARACTERISTICS	FR-S-PS-S/H/LAZ/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Projected (PS)
Module orientation	South (S)
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/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~16
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

Hexagonal screw
M8X25 IE

SM8X25Z

Purlin for support
L=X

RBTSOLAR-KD-PL-X

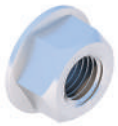
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

Windchest
South support
L=X

RBTSOLAR-KD-W-X

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

28 Screw-on structure

FR-S-PS-S/V/LAZ/MAX-LONG1950

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	South (S)	Vertical (V)	Long side (LAZ)	1950

SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat or sloped roofs, without the need for additional ballast and without the possibility of using a welded structure.
- An invasive installation system, by fastening to the roof substructure using an appropriate number of screws.
- In the case of installing PV modules in a vertical layout or with a side length exceeding 2100 mm 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.

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 welded to the membrane.

Installation requires a wind deflector, which limits the effect of wind on the structure and ensures its rigidity.

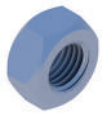
Flat roof structures (FR)

1. Short arm
2. Long arm
3. Base south
4. Purlin

CHARACTERISTICS	FR-S-PS-S/V/LAZ/MAX-LONG1950
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Projected (PS)
Module orientation	South (S)
Module layout	Vertical (V)
How to install a PV module[1]	Long side (LAZ)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
Is it possible to apply the hybrid solution (weld + ballast)?	Yes - possibility of additional ballasting of the wind tower
Approximate weight of the structure per 1m² of installation without additional ballast (kg/m²)[2]	~16
Purlin length (mm)	X
Wind brace length (mm)	X
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

Hexagonal screw
M8X25 IE

SM8X25Z

Purlin for support
L=X

RBTSOLAR-KD-PL-X

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

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

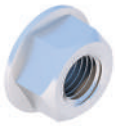
KLK50/30(32/35/40)ALN
KLK50/30(32/35/40)ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Allen screw
M8X35 DIN912 A2

SIM8X35A2



Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Windchest
South support
L=X

RBTSOLAR-KD-W-X

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

29 Screw-on structure

FR-S-PS-EW/H/SA/MAX-LONG-X

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	East-west (EW)	Horizontal (H)	Short side (SA)	Individual (X)

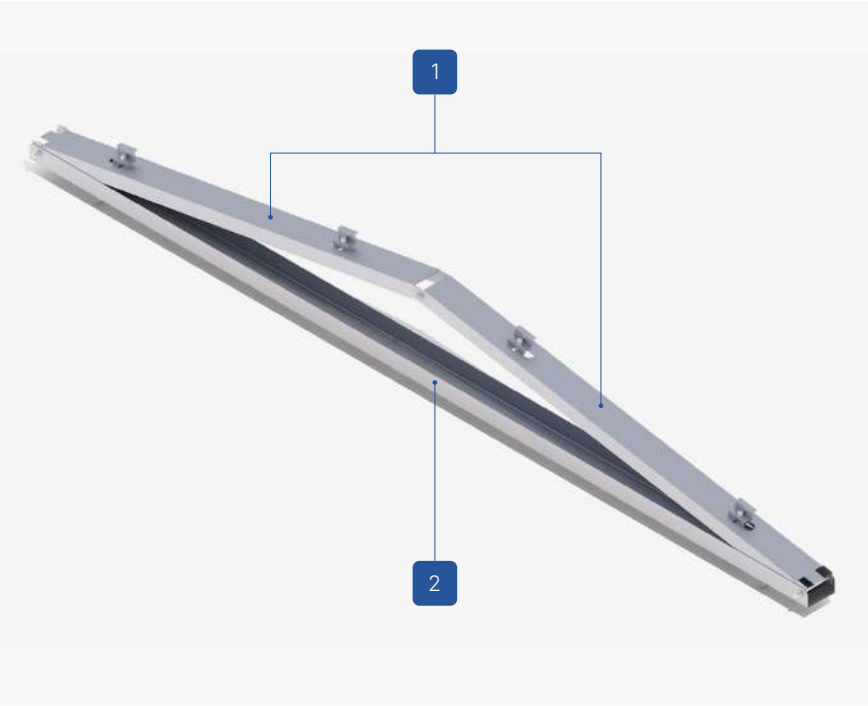
SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat or sloped roofs, without the need for additional ballast and without the possibility of using a welded structure.
- An invasive installation system, by fastening to the roof substructure using an appropriate number of screws.

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 welded to the membrane.

Flat roof structures (FR)



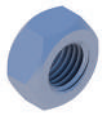
1. Long arm

2. Base east-west

CHARACTERISTICS	FR-S-PS-EW/H/SA/MAX-LONG-X
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
Type of construction	Projected (PS)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
How to install a PV module[1]	Short side (SA)
Application/substrate on which it is mounted	PVC membrane/bituminous membrane/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
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]	~12
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

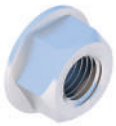
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

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

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

30 Screw-on structure

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

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MAX PV MODULE LENGTH
Projected (PS)	East-west (EW)	Horizontal (H)	Long side (LAZ)	Individual (X)

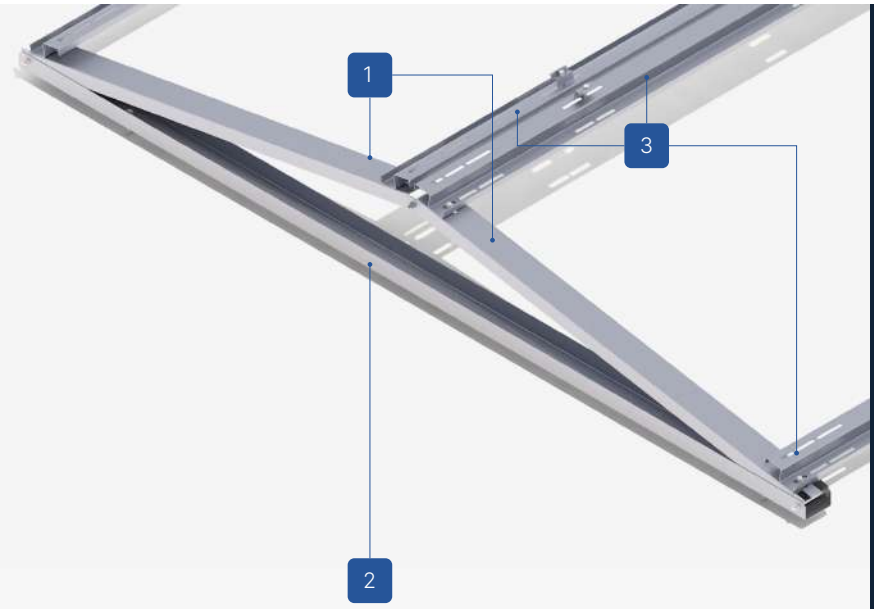
SEE ONLINE →

DESCRIPTION

- A multi-part construction made of Magnelis™ sheet metal, designed for flat or sloped roofs, without the need for additional ballast and without the possibility of using a welded structure.
- An invasive installation system, by fastening to the roof substructure using an appropriate number of screws.
- In the case of installing PV modules in a vertical layout or with a side length exceeding 2100 mm 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.

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 welded to the membrane.

Flat roof structures (FR)

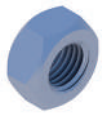


1. Long arm
2. Base east-west
3. Purlin

CHARACTERISTICS	FR-S-US-EW/H/LAZ
Roof type	Flat roof (FR)
Method of mounting the structure on the roof	Screw-on (S)
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/sandwich panel/trapezoidal sheet
Method of assembly	The base of the structure is attached to the roof substructure
Does the structure require additional ballast?	No
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]	~15
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

LIST OF PARTS - BASE OF CONSTRUCTION



Hexagonal nut
M8 IE

NM8Z

Washer M8 300HV
ISO7093-1 IE

PPM8Z

Screw
M8X97 IE

SM8X97Z

Hexagonal screw
M8X25 IE

SM8X25Z

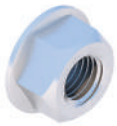
Purlin for support
L=X

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

M10 double thread screw
200/250/300

RBTSOLAR-KD-DWUG200/250/300

Ground structures

Ground structures (G)

STRUCTURE	CARD NO.	CONSTRUCION TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORT NO.	MAX SIZE (PV MODULE)	PV MODULES NO.	PAGE
Piled structure (G-P)	01	Universal (US)	South (S)	Vertical (V)	2	2210×1200	2×1	109
		Universal (US)	South (S)	Vertical (V)	2	2210×1200	2×2	
	02	Universal (US)	South (S)	Vertical (V)	2	2465×1500	2×1	112
		Universal (US)	South (S)	Vertical (V)	2	2465×1500	2×2	
	03	Individual (I)	South (S)	Vertical (V)	1		2×4 (+2)	115
	04	Individual (I)	South (S)	Vertical (V)	2		2×4 (+2)	118
	05	Individual (I)	South (S)	Vertical (V)	2		3×3 (+3)	124
	06	Individual (I)	South (S)	Horizontal (H)	2		3×3 (+3)	127
	07	Individual (I)	South (S)	Horizontal (H)	2		4×3 (+4)	130
	08	Individual (I)	South (S)	Horizontal (H)	2		5×4 (+4)	133
	09	Individual (I)	South (S)	Horizontal (H)	2		6×6 (+6)	136
	10	Individual (I)	East-west (EW)	Vertical (V)	3		2×4-2×4 (+4)	139
	11	Individual (I)	East-west (EW)	Horizontal (H)	3		3×3-3×3 (+6)	142
	12	Individual (I)	East-west (EW)	Horizontal (H)	3		4×4-4×4 (+8)	145
Ballast structure (G-B)	13	Individual (I)	South (S)	Vertical (V)	1		2×4 (+2)	148
	14	Individual (I)	South (S)	Vertical (V)	2		2×4 (+2)	151
	15	Individual (I)	South (S)	Vertical (V)	2		3×3 (+3)	157
	16	Individual (I)	South (S)	Horizontal (H)	2		3×3 (+3)	160
	17	Individual (I)	South (S)	Horizontal (H)	2		4×3 (+4)	163
	18	Individual (I)	South (S)	Horizontal (H)	2		5×4 (+4)	166
	19	Individual (I)	South (S)	Horizontal (H)	2		6×6 (+6)	169
	20	Individual (I)	East-west (EW)	Vertical (V)	3		2×4-2×4 (+4)	172
	21	Individual (I)	East-west (EW)	Horizontal (H)	3		3×3-3×3 (+6)	175
	22	Individual (I)	East-west (EW)	Horizontal (H)	3		4×4-4×4 (+8)	178

Individual structures are made for an individual order with 4 week production period.
Universal structures are currently in stock and available on hand.

01 Piled structure

G-P-US-S/V/2/MAX2210×1200/2×1
G-P-US-S/V/2/MAX2210×1200/2×2

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NO. / WIDTH (MAX) OF PV MODULES
Universal (US)	South (S)	Vertical (V)	Two	2×1 and/or 2×2 / 2210×1200

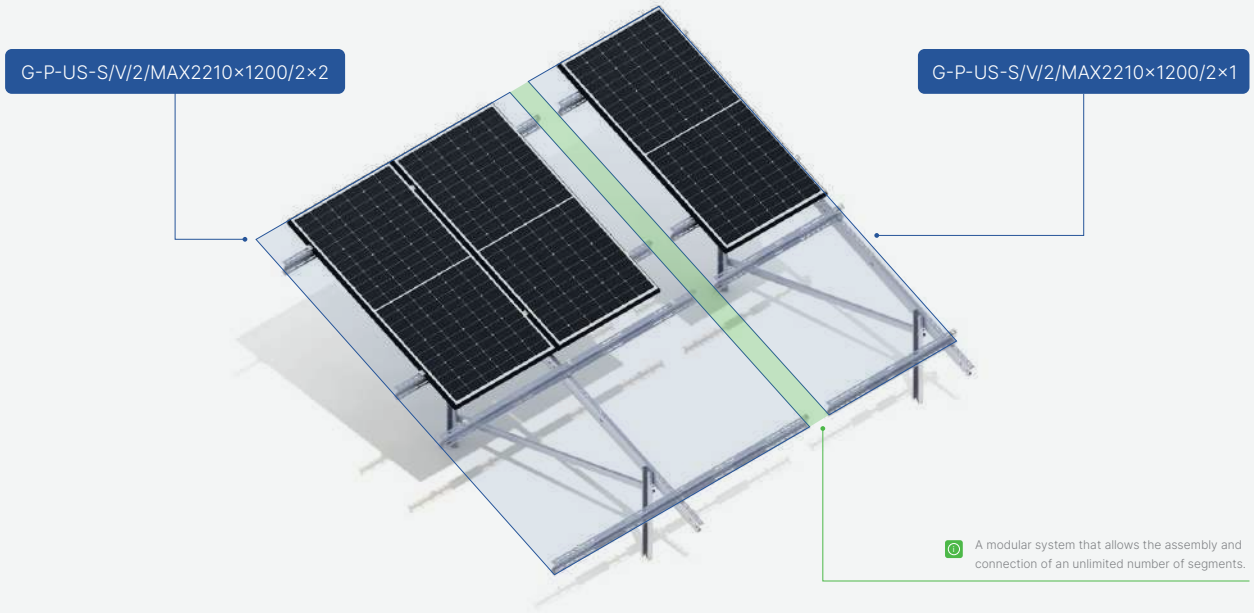
SEE ONLINE →

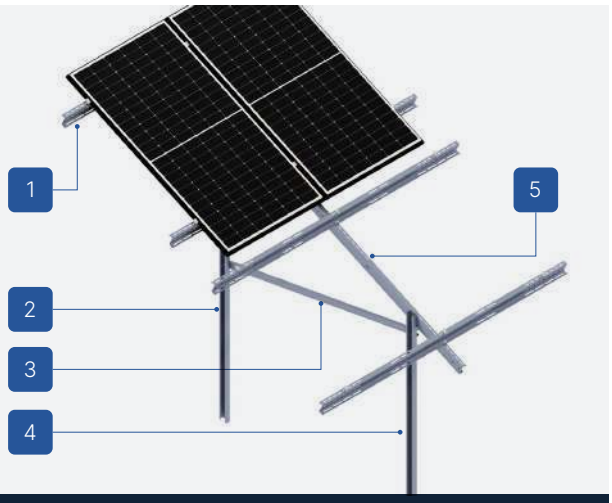
DESCRIPTION

- A universal mounting system built with adjustable, telescopic beams allowing for the use of structures for modules of different power and size.
- A multipart ground structure made of Magnelis™ steel designed for soil, piled without the need for additional ballasting.
- Excellent for constructing installations up to 50 kW that require quick delivery of structures to the construction site.
- The screw system used for mounting beams, latches, and posts does not require servicing as long as the installation is carried out according to the instructions.
- Available in stock with piling up to 1500 mm.
- A construction system for which assembly requires assembling a minimum of two construction segments - segment 2×2 and/or 2×1.
- A modular system that allows the assembly and connection of an unlimited number of segments.
- The system is designed for ground installations where the primary criterion for choosing the structure is the inability to use additional ballast.
- The possibility of using a hybrid system in which there is an option to load the column/columns with ballast in places where it is not possible to drive stakes to a specified depth.

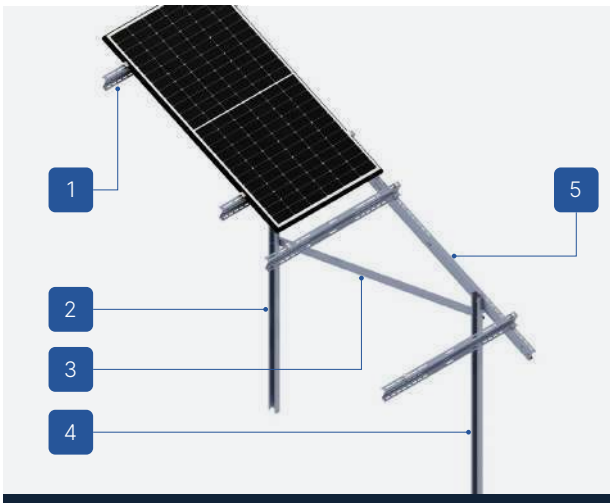
We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.





1. Purlin
2. Back leg/support
3. Zastrzał przód-tył
4. Front leg/support
5. Latch



1. Purlin
2. Back leg/support
3. Zastrzał przód-tył
4. Front leg/support
5. Latch

Ground structures (G)

CHARACTERISTICS	G-P-US-S/V/2/MAX2210×1200
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
Type of modules	Standard/Bifacial
Shape of the column	C-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	2210×1200
Distribution method	Available in stock

	2×1	2×2
Minimum number of modules on the structure	2 (+2)	4 (+4)

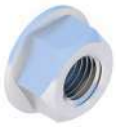
LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ



Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

02 Piled structure

G-P-US-S/V/2/MAX2465×1500/2×1
G-P-US-S/V/2/MAX2465×1500/2×2

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NO. / WIDTH (MAX) OF PV MODULES
Universal (US)	South (S)	Vertical (V)	Two	2×1 i/lub 2×2 / 2465×1500

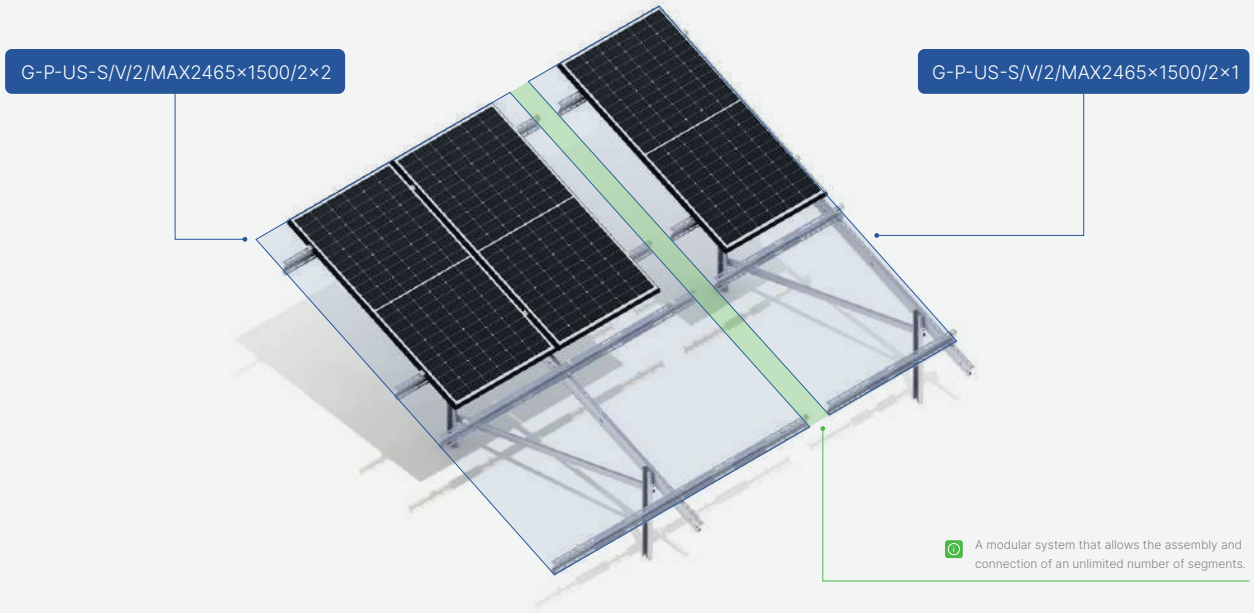
SEE ONLINE →

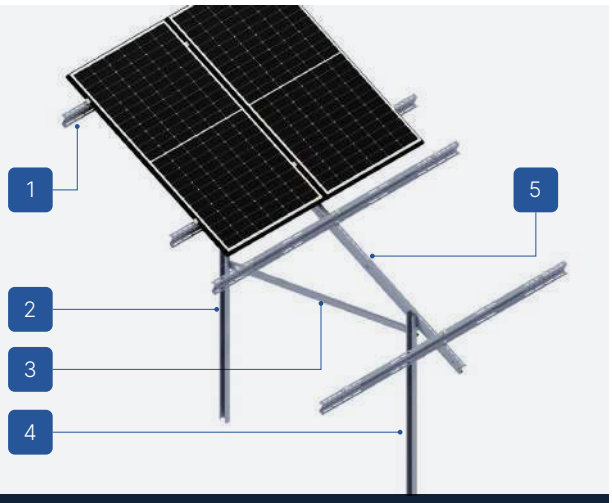
DESCRIPTION

- A universal mounting system built with adjustable, telescopic beams allowing for the use of structures for modules of different power and size.
- A multipart ground structure made of Magnelis™ steel designed for soil, piled without the need for additional ballasting.
- Excellent for constructing installations up to 50 kW that require quick delivery of structures to the construction site.
- The screw system used for mounting beams, latches, and posts does not require servicing as long as the installation is carried out according to the instructions.
- Available in stock with piling up to 1500 mm.
- A construction system for which assembly requires assembling a minimum of two construction segments - segment 2×2 and/or 2×1.
- A modular system that allows the assembly and connection of an unlimited number of segments.
- The system is designed for ground installations where the primary criterion for choosing the structure is the inability to use additional ballast.
- The possibility of using a hybrid system in which there is an option to load the column/columns with ballast in places where it is not possible to drive stakes to a specified depth.

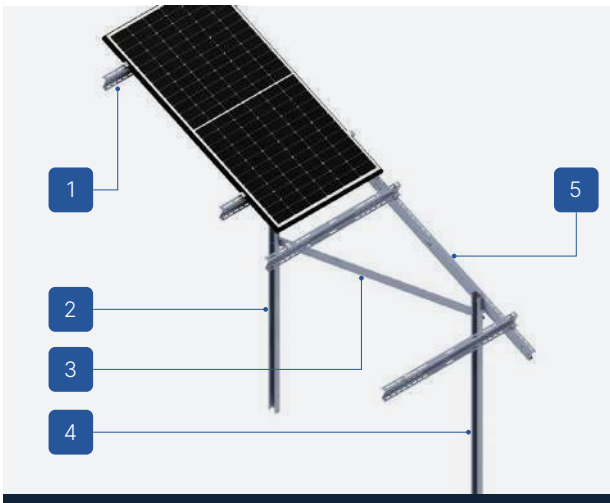
We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.





1. Purlin
2. Back leg/support
3. Zastrzał przód-tył
4. Front leg/support
5. Latch



1. Purlin
2. Back leg/support
3. Zastrzał przód-tył
4. Front leg/support
5. Latch

CHARACTERISTICS	G-P-US-S/V/2/MAX2465×1500
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
Type of modules	Standard/Bifacial
Shape of the column	C-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	2465×1500
Distribution method	Available in stock

	2×1	2×2
Minimum number of modules on the structure	2 (+2)	4 (+4)

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

03 Piled structure

G-P-I-S/V/1/2×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Vertical (V)	One	2×4 (+2)

SEE ONLINE →

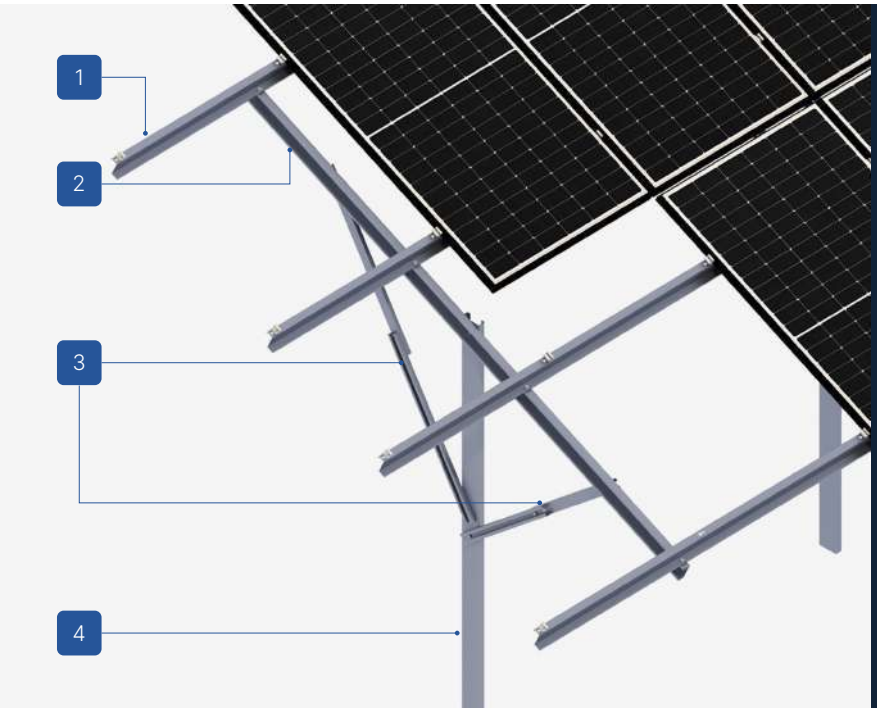
DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.

Ground structures (G)



1. Purlin
2. Latch
3. Strut
4. Leg/support

CHARACTERISTICS	G-P-I-S/V/1/2×4
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	1
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Bipartite support leg
CW-profile

Strut

04A Piled structure

G-P-I-S/V/2/2×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Vertical (V)	Two	2×4 (+2)

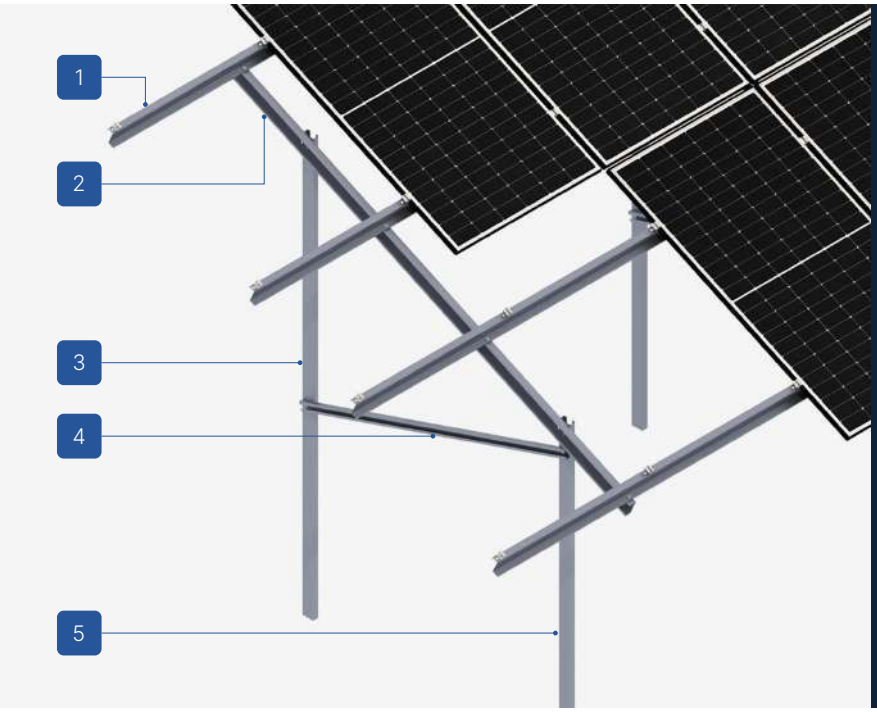
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-P-I-S/V/2/2×4
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Bipartite support leg
CW-profile

Strut

04B Piled structure

G-P-I-S/V/2/2×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Vertical (V)	Two	2×4 (+2)

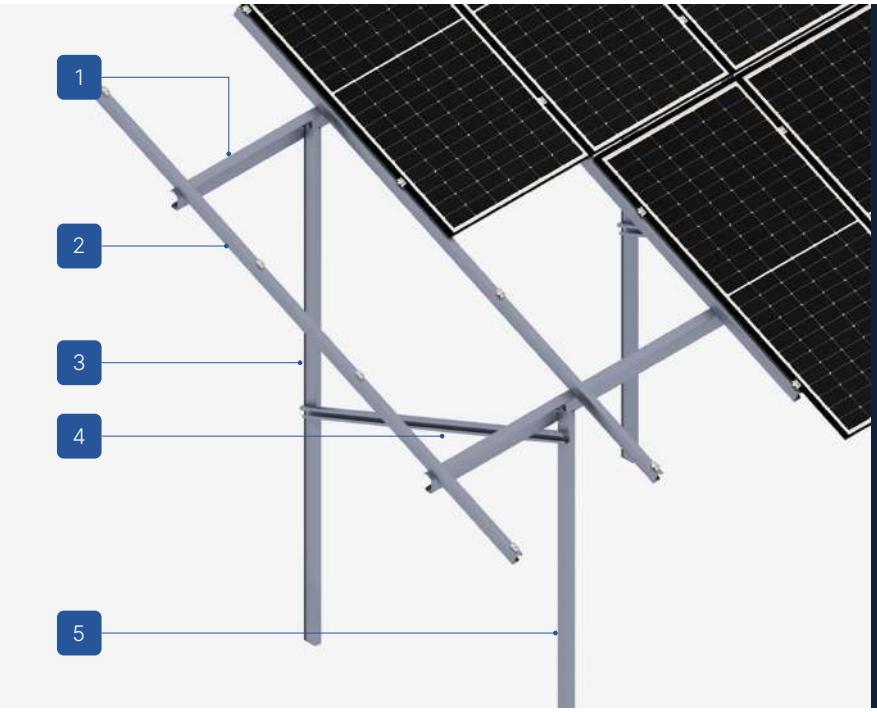
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Latch
2. Purlin
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-P-I-S/V/2/2×4
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Bipartite support leg
CW-profile

Strut

05 Piled structure

G-P-I-S/V/2/3×3

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Vertical (V)	Two	3×3 (+3)

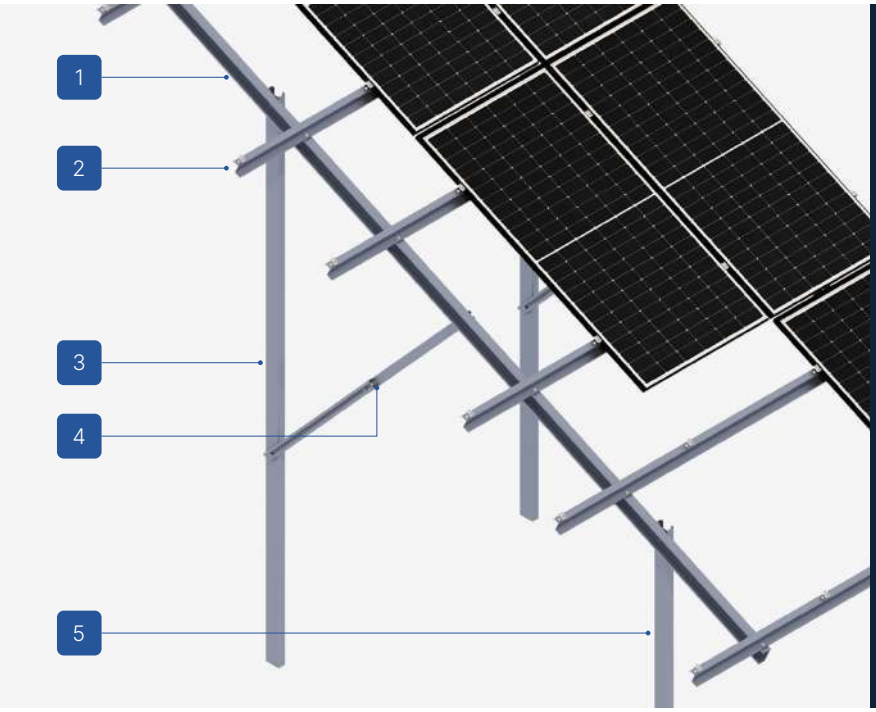
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Latch
2. Purlin
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-P-I-S/V/2/3×3
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	3×3 (+3)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	9
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Bipartite support leg
CW-profile

Strut

06 Piled structure

G-P-I-S/H/2/3×3

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Horizontal (H)	Two	3×3 (+3)

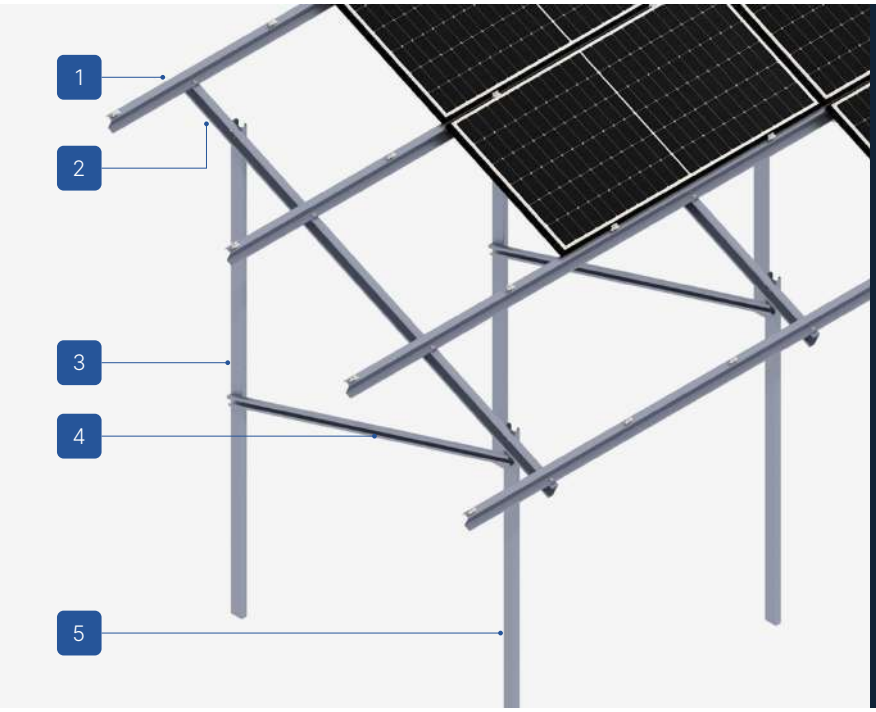
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-P-I-S/H/2/3×3
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	3×3 (+3)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	9
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Bipartite support leg
CW-profile

Strut

07 Piled structure

G-P-I-S/H/2/4×3

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Horizontal (H)	Two	4×3 (+4)

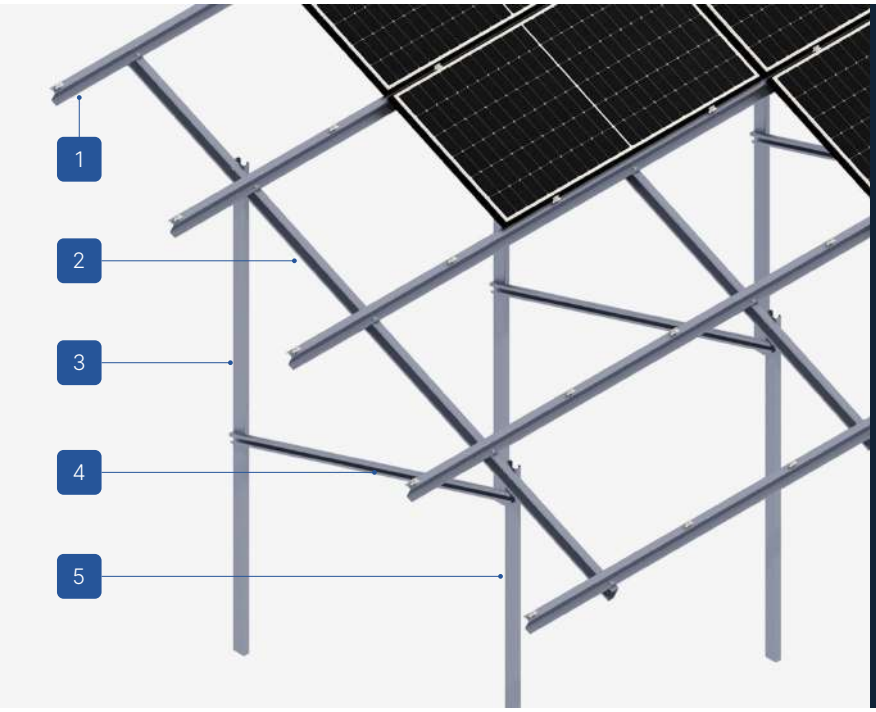
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-P-I-S/H/2/4×3
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	4×3 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	12
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Bipartite support leg
CW-profile

Strut

08 Piled structure

G-P-I-S/H/2/5×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Horizontal (H)	Two	5×4 (+4)

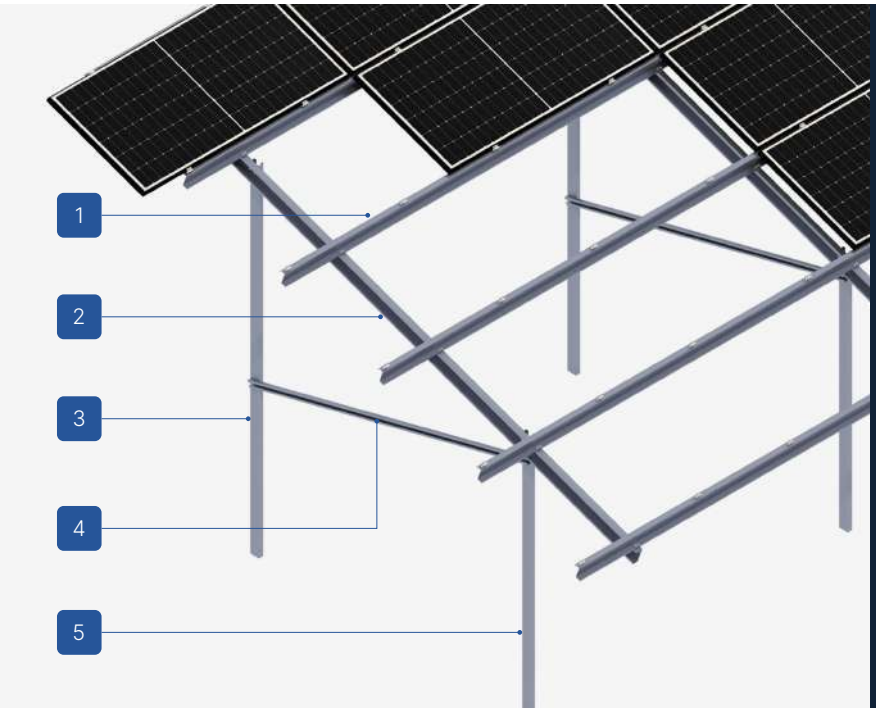
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-P-I-S/H/2/5×4
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	5×4 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	20
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

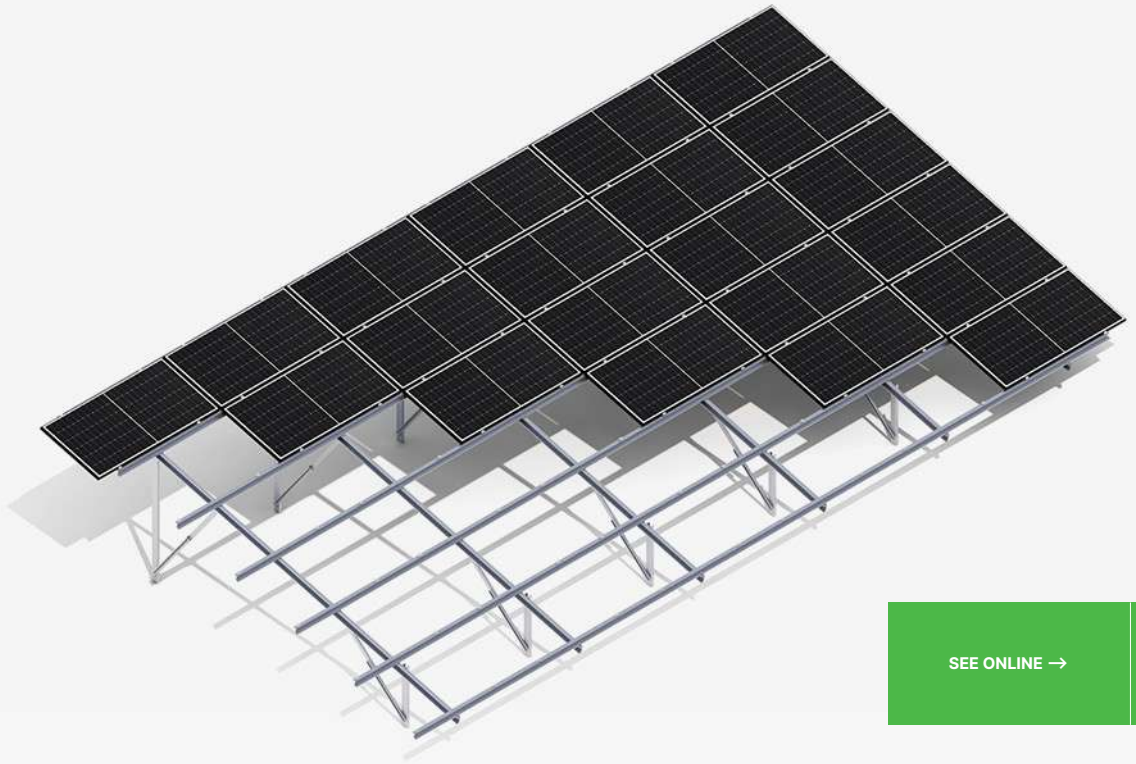
Bipartite support leg
CW-profile

Strut

09 Piled structure

G-P-I-S/H/2/6×6

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Horizontal (H)	Two	6×6 (+6)



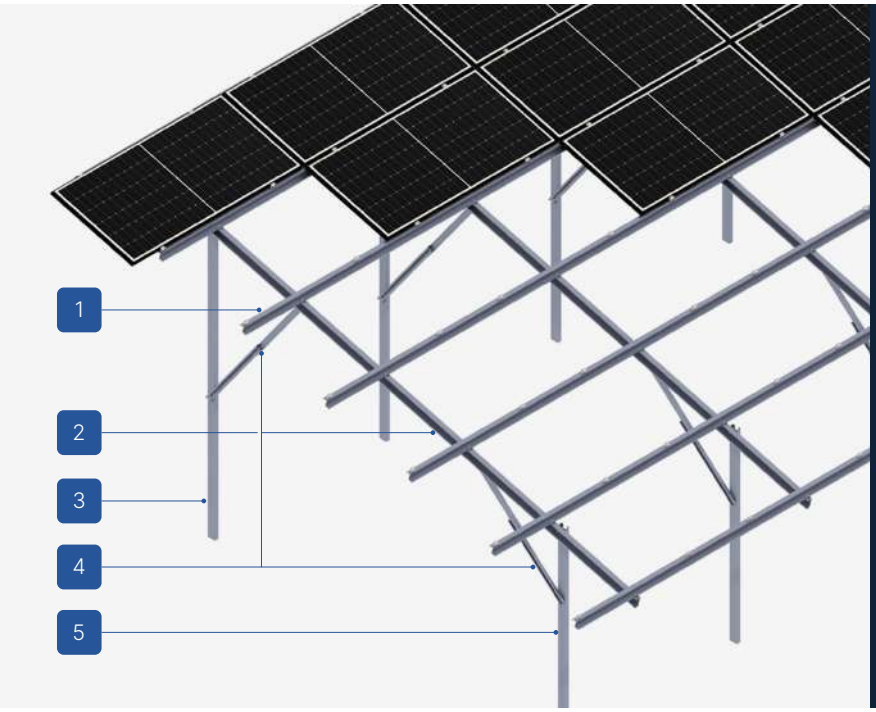
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-P-I-S/H/2/6×6
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	6×6 (+6)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	36
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

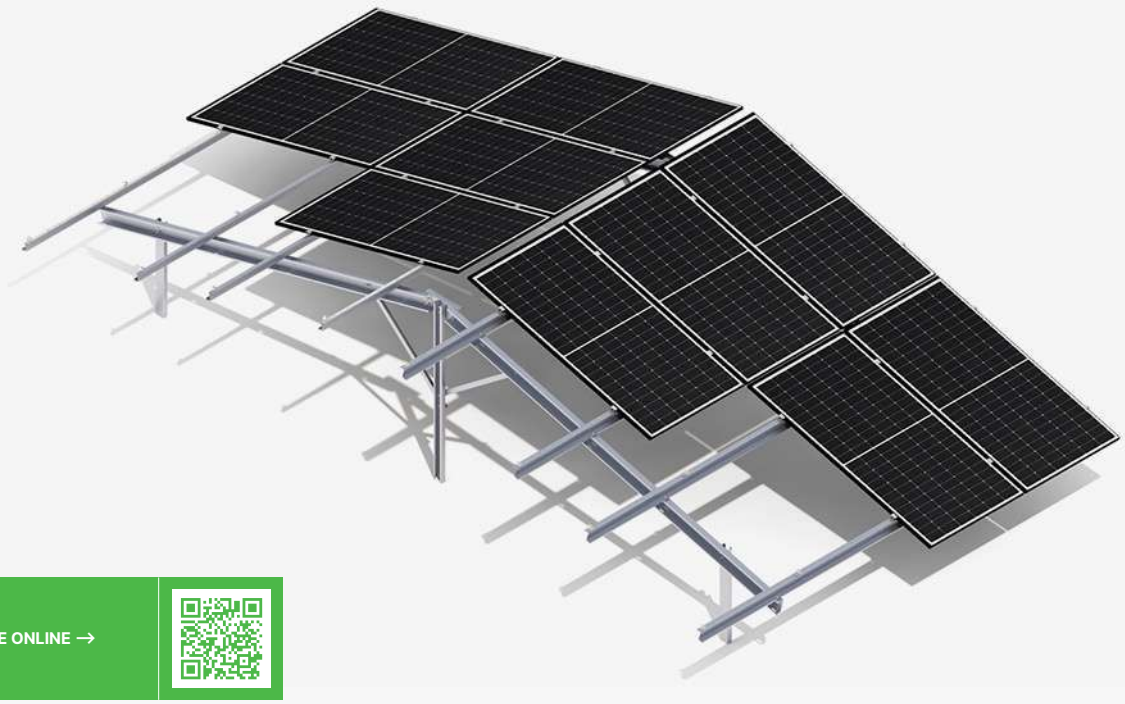
Bipartite support leg
CW-profile

Strut

10 Piled structure

G-P-I-EW/V/3/2×4-2×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	East-west (EW)	Vertical (V)	Three	2×4 + 2×4 (+4)



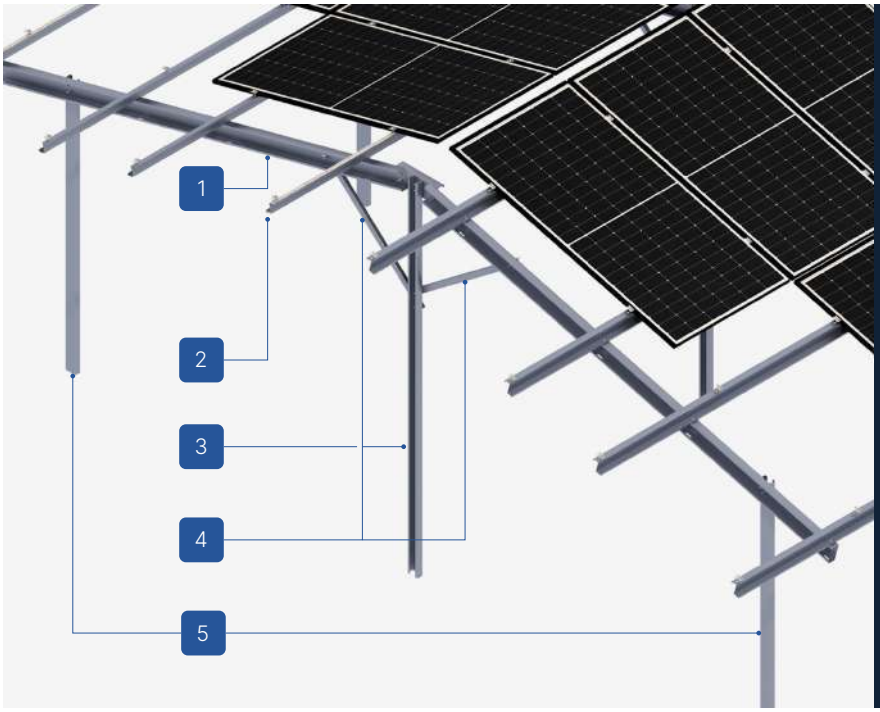
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Latch
2. Purlin
3. Long leg/support
4. Strut
5. Short leg/support

CHARACTERISTICS	G-P-I-EW/V/3/2×4-2×4
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Vertical (V)
Number of columns	3
Number of PV modules	2×4 + 2×4 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	16
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Bipartite support leg
CW-profile

Strut

11 Piled structure

G-P-I-EW/H/3/3×3-3×3

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	East-west (EW)	Horizontal (H)	Three	3×3 + 3×3 (+6)

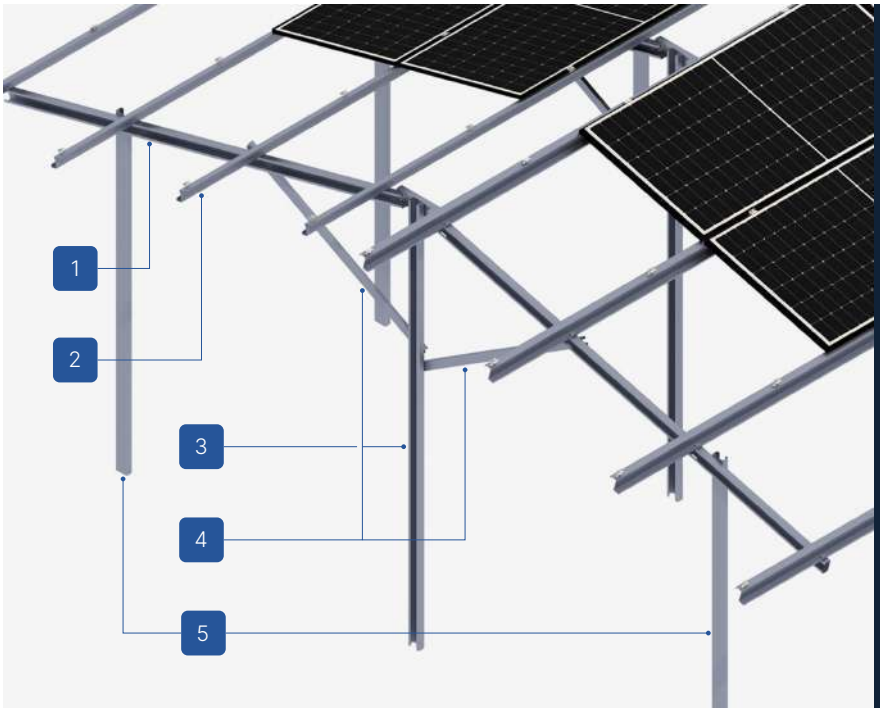
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Latch
2. Purlin
3. Long leg/support
4. Strut
5. Short leg/support

CHARACTERISTICS	G-P-I-EW/H/3/3×3-3×3
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
Number of columns	3
Number of PV modules	3×3 + 3×3 (+6)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	18
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

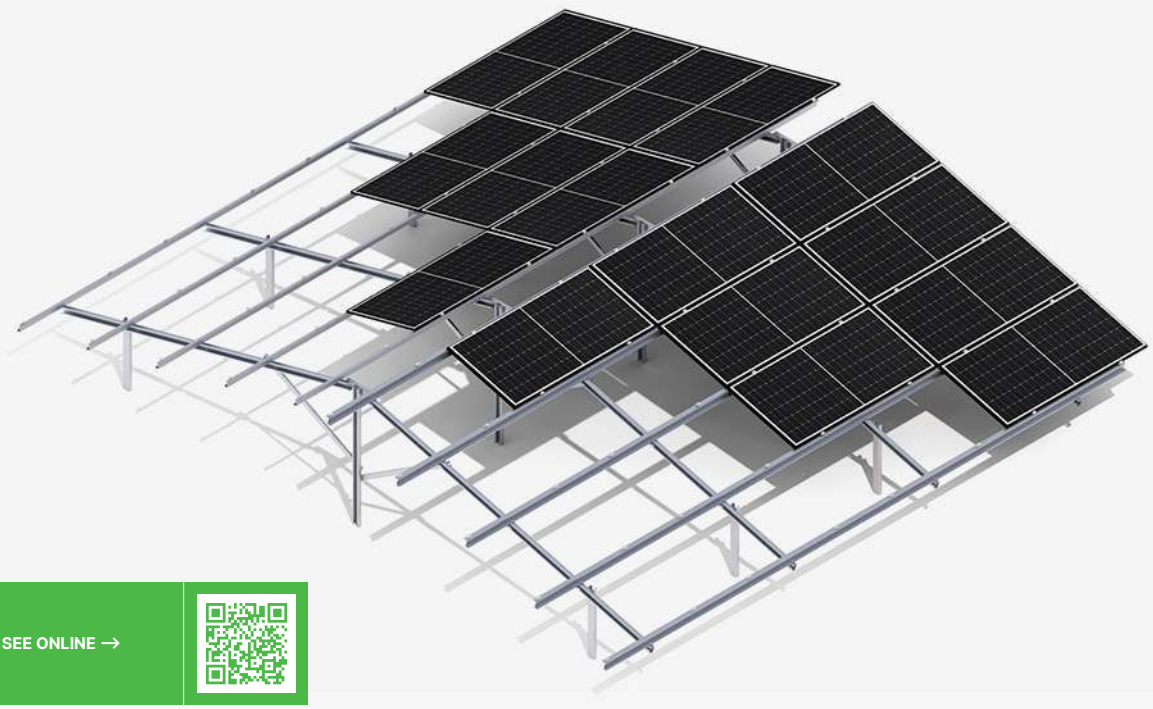
Bipartite support leg
CW-profile

Strut

12 Piled structure

G-P-I-EW/H/3/4×4-4×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	East-west (EW)	Horizontal (H)	Three	4×4 + 4×4 (+8)



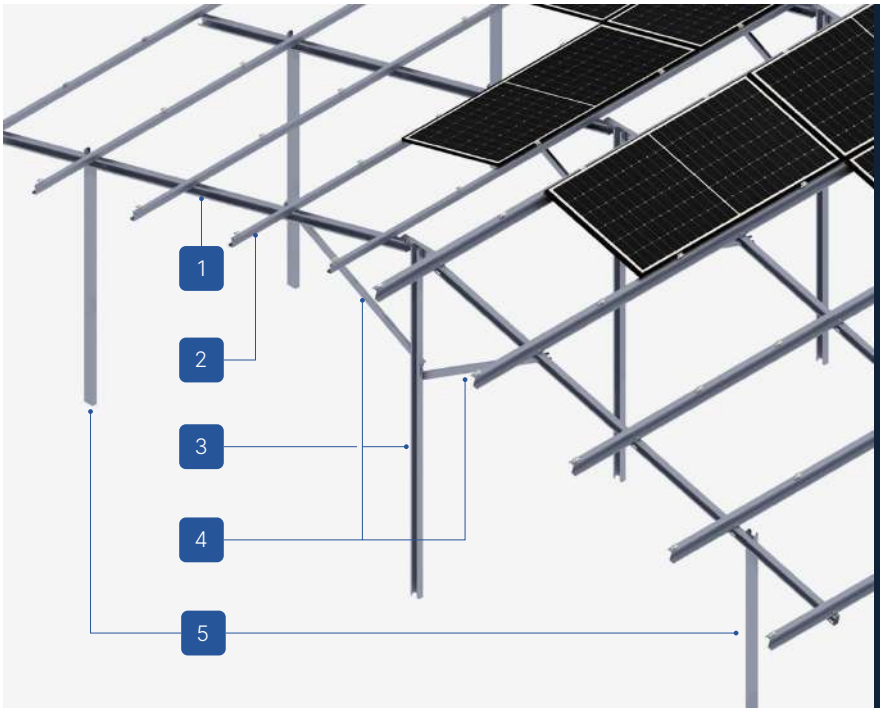
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soil. Piled, without the need for additional ballasting.
- Excellent for constructing installations above 50 kW, that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing, as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan, along with module installation instructions and geotechnical conditions, including previous piling test results.
- The system is designed for ground installations, where, due to challenging geotechnical conditions (e.g., areas with dolomite), it is necessary to use two-piece columns, including a lower column with increased strength (CW profile) for piling in rocky soils.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specific wind and snow zone, as well as based on geotechnical conditions examined beforehand.

The structure is designed for wind and snow zones specified as W1S2, with piling not deeper than 1500. To initiate production, no prepayment is required, unlike constructions produced for individual orders.



1. Latch
2. Purlin
3. Long leg/support
4. Strut
5. Short leg/support

CHARACTERISTICS	G-P-I-EW/H/3/4×4-4×4
Type of substrate	Ground (G)
Construction installation method	Piled structure (P)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
Number of columns	3
Number of PV modules	4×4 + 4×4 (+8)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	32
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Bipartite support leg
CW-profile

Strut

13 Ballast structure

G-B-I-S/V/1/2×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Vertical (V)	One	2×4 (+2)

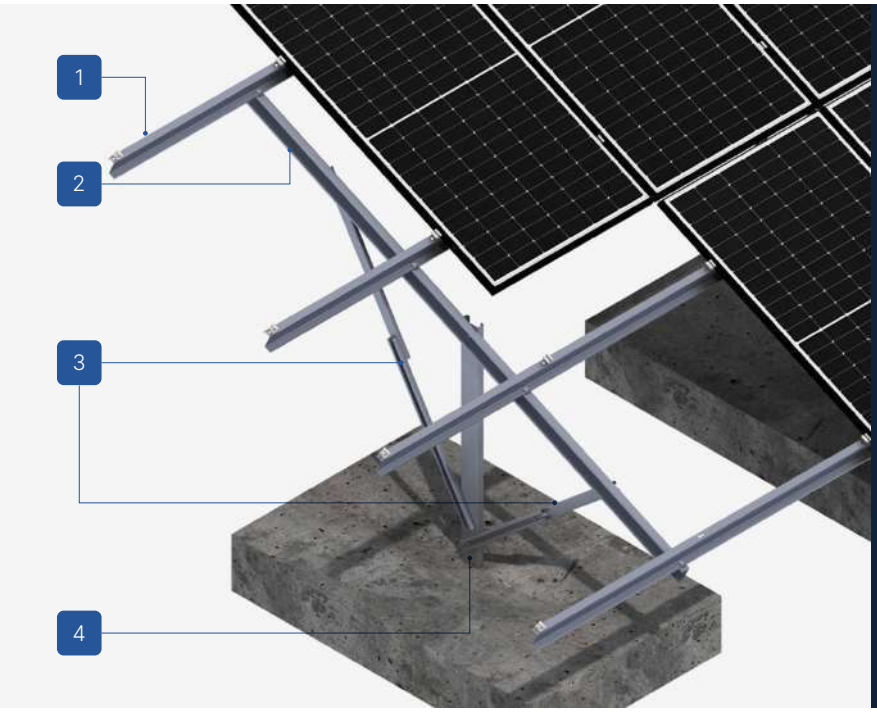
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Purlin
2. Latch
3. Strut
4. Leg/support

CHARACTERISTICS	G-B-I-S/V/1/2×4
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	1
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

14A Ballast structure

G-B-I-S/V/2/2×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Vertical (V)	Two	2×4 (+2)

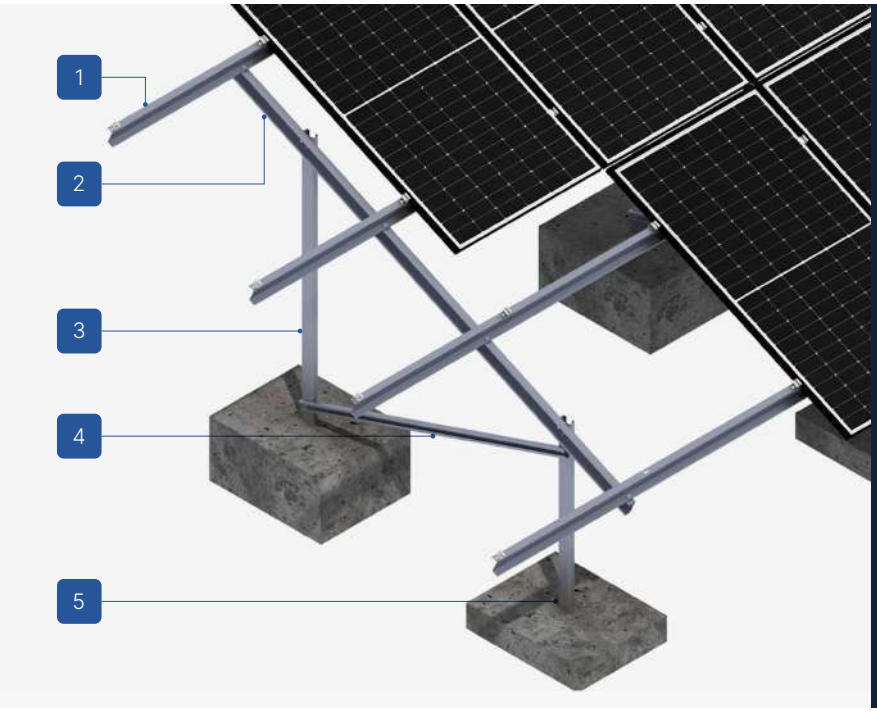
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-B-I-S/V/2/2×4
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

14B Ballast structure

G-P-I-S/V/2/2×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Vertical (V)	Two	2×4 (+2)

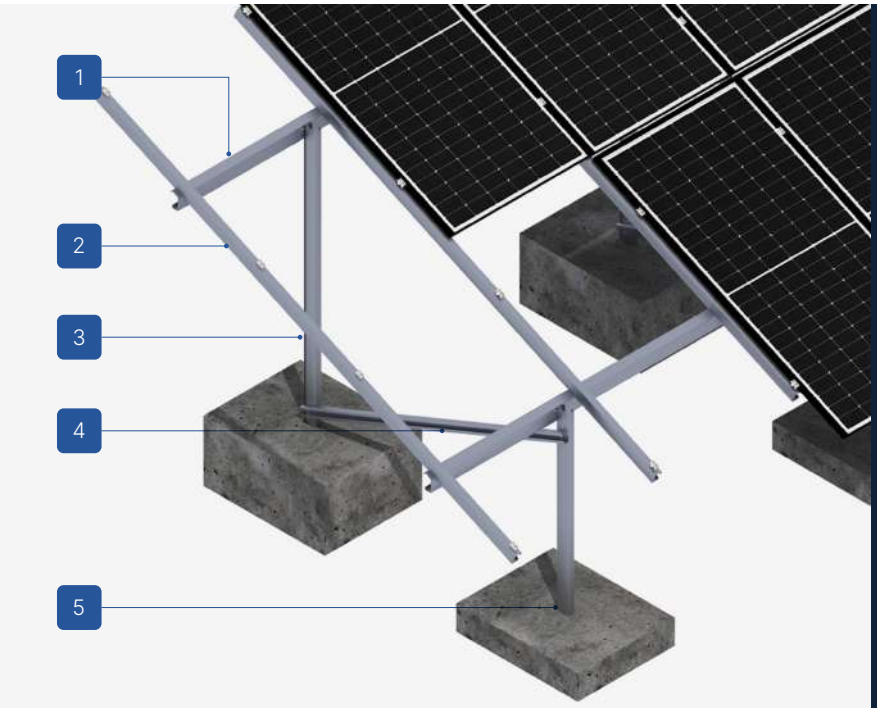
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Latch
2. Purlin
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-B-I-S/V/2/2×4
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	2×4 (+2)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	8
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

15 Ballast structure

G-B-I-S/V/2/3×3

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Vertical (V)	Two	3×3 (+3)

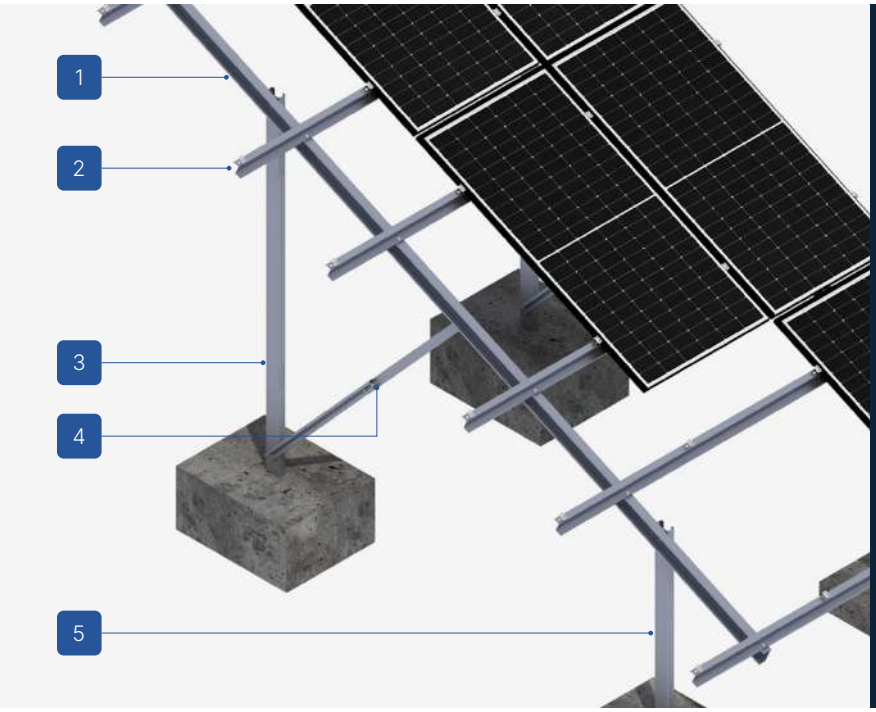
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Latch
2. Purlin
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-B-I-S/V/2/3×3
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of columns	2
Number of PV modules	3×3 (+3)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	9
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

16 Ballast structure

G-B-I-S/H/2/3×3

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Horizontal (H)	Two	3×3 (+3)

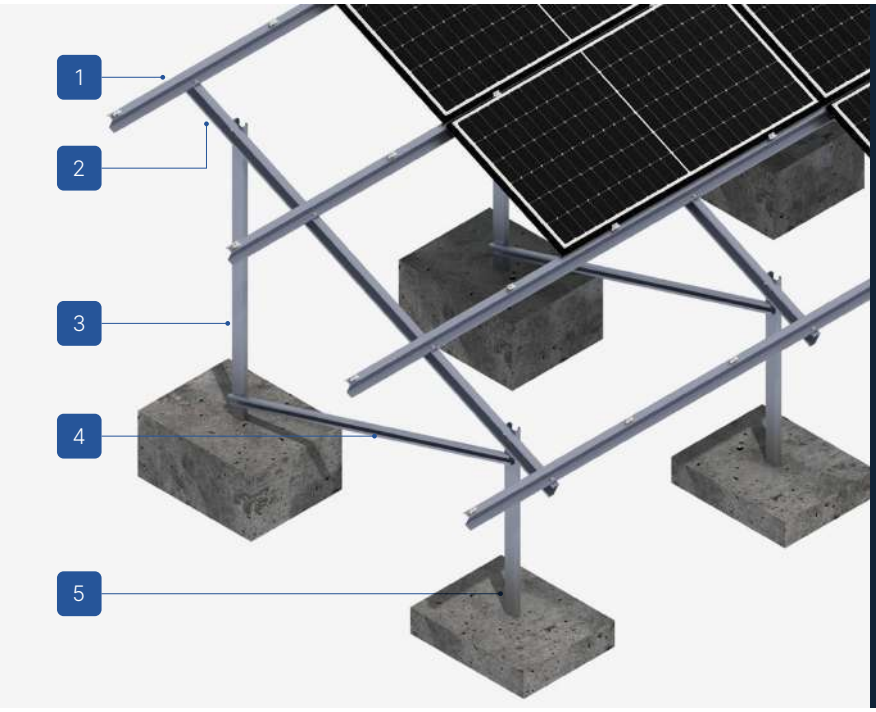
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-B-I-S/H/2/3×3
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	3×3 (+3)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	9
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

17 Ballast structure

G-B-I-S/H/2/4×3

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Horizontal (H)	Two	4×3 (+4)

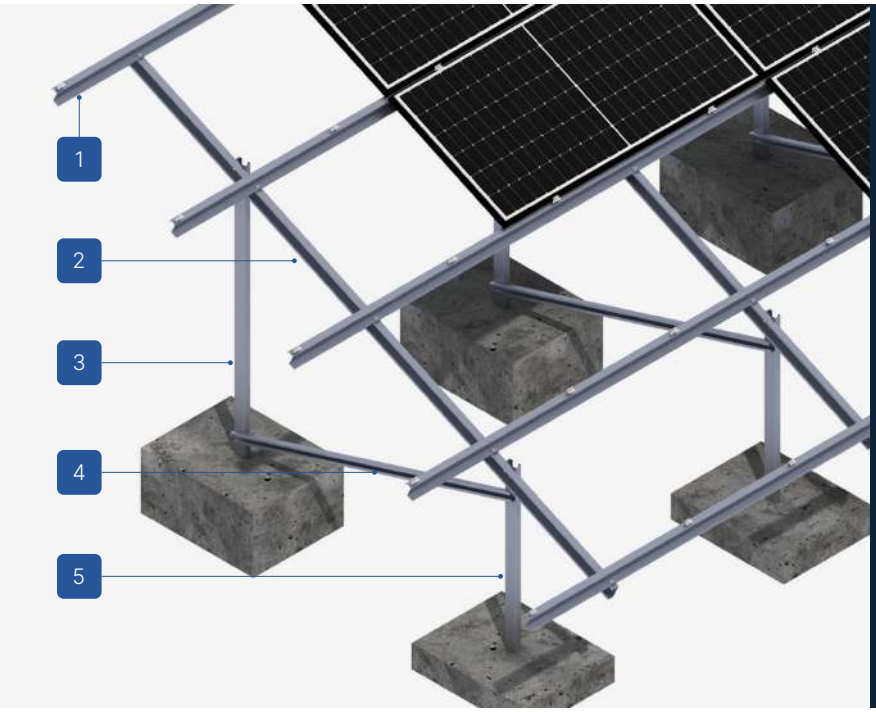
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-B-I-S/H/2/4×3
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	4×3 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	12
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

18 Ballast structure

G-B-I-S/H/2/5×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Horizontal (H)	Two	5×4 (+4)

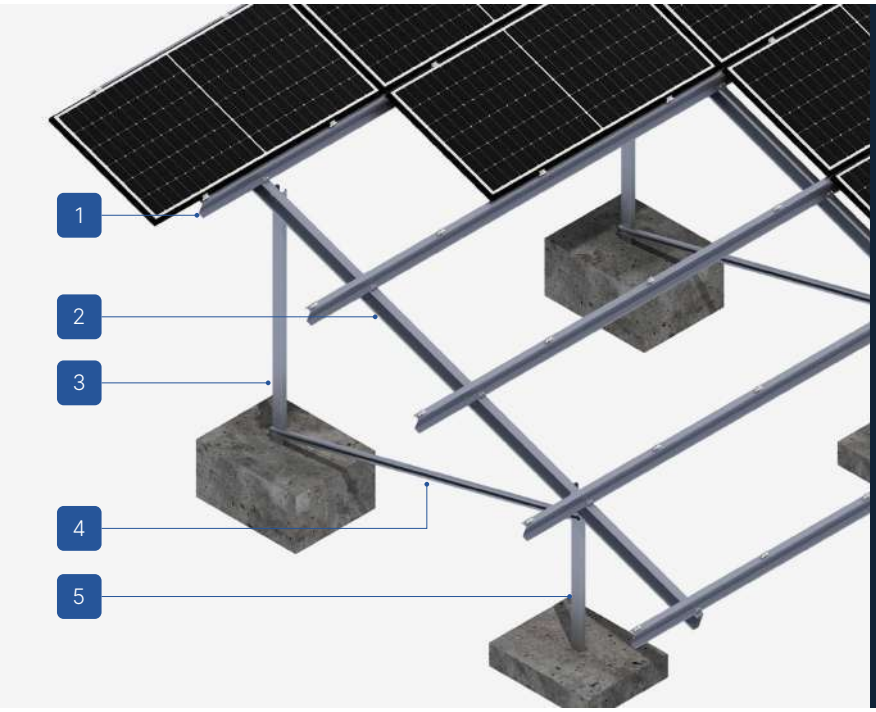
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Purlin
2. Latch
3. Back leg/support
4. Strut
5. Front leg/support

CHARACTERISTICS	G-B-I-S/H/2/5×4
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	5×4 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	20
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

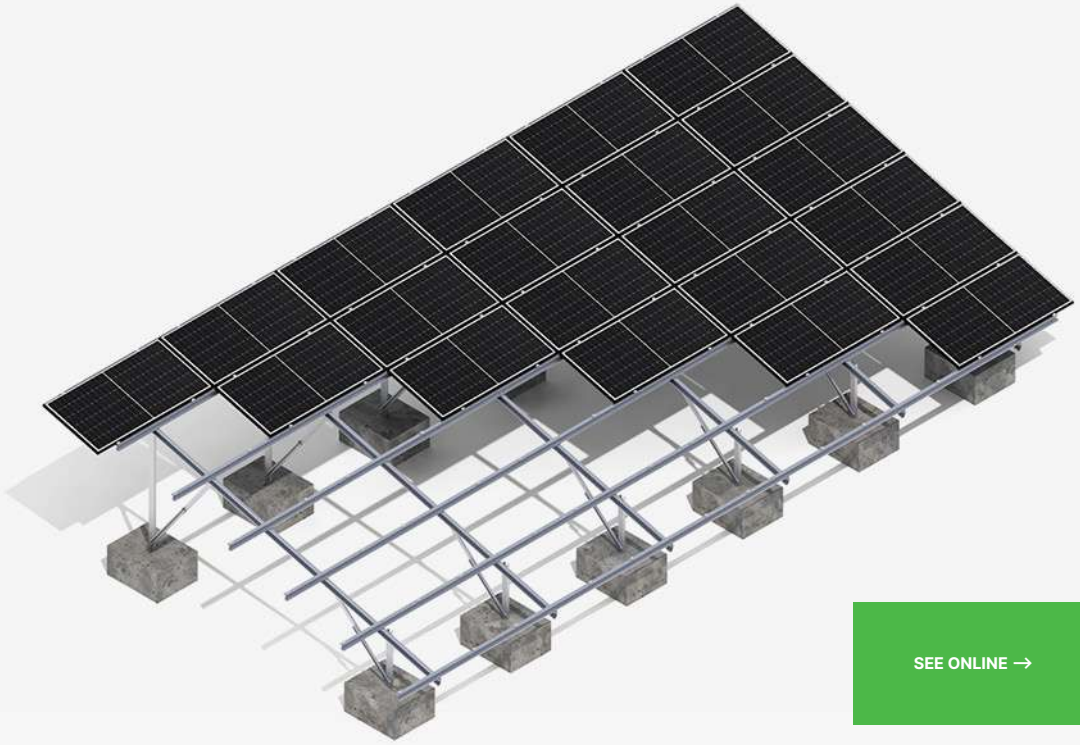
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

19 Ballast structure

G-B-I-S/H/2/6×6

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	South (S)	Horizontal (H)	Two	6×6 (+6)



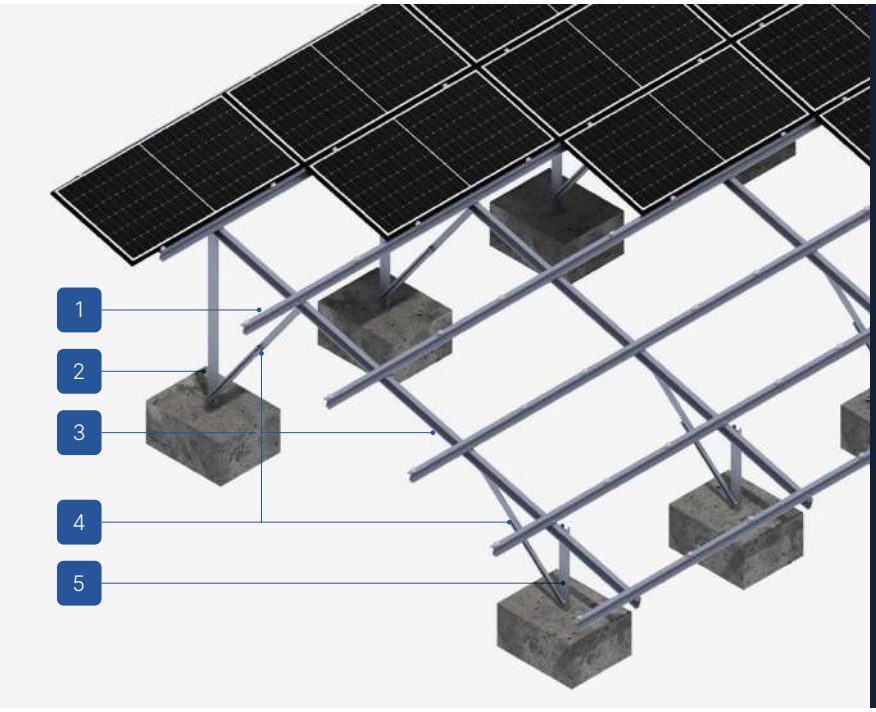
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Purlin
2. Back leg/support
3. Latch
4. Strut
5. Front leg/support

CHARACTERISTICS	G-B-I-S/H/2/6×6
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Horizontal (H)
Number of columns	2
Number of PV modules	6×6 (+6)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	36
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

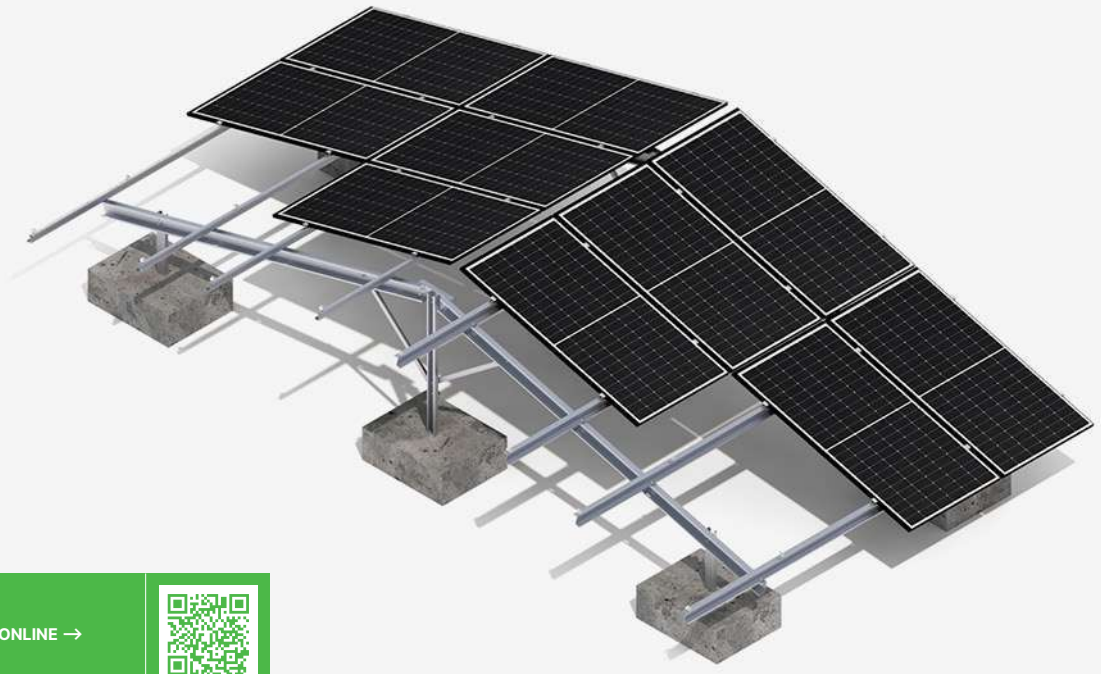
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

20 Ballast structure

G-B-I-EW/V/3/2×4-2×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	East-west (EW)	Vertical (V)	Three	2×4 + 2×4 (+4)



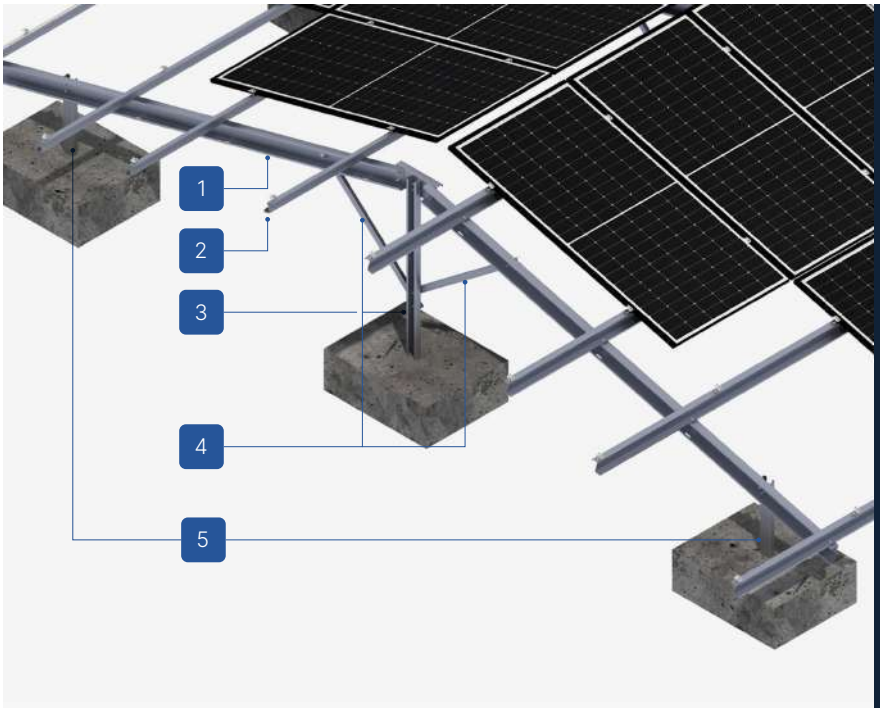
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Latch
2. Purlin
3. Long leg/support
4. Strut
5. Short leg/support

CHARACTERISTICS	G-B-I-EW/V/3/2×4-2×4
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Vertical (V)
Number of columns	3
Number of PV modules	2×4 + 2×4 (+4)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	16
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

21 Ballast structure

G-B-I-EW/H/3/3×3-3×3

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	East-west (EW)	Horizontal (H)	Three	3×3 + 3×3 (+6)

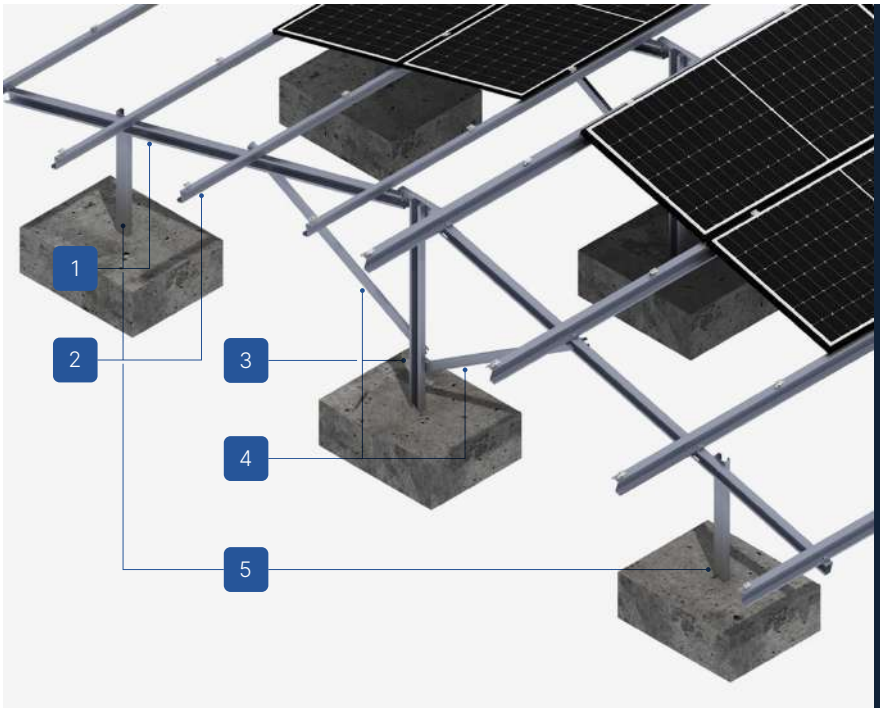
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Latch
2. Purlin
3. Long leg/support
4. Strut
5. Short leg/support

CHARACTERISTICS	G-B-I-EW/H/3/3×3-3×3
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
Number of columns	3
Number of PV modules	3×3 + 3×3 (+6)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	18
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

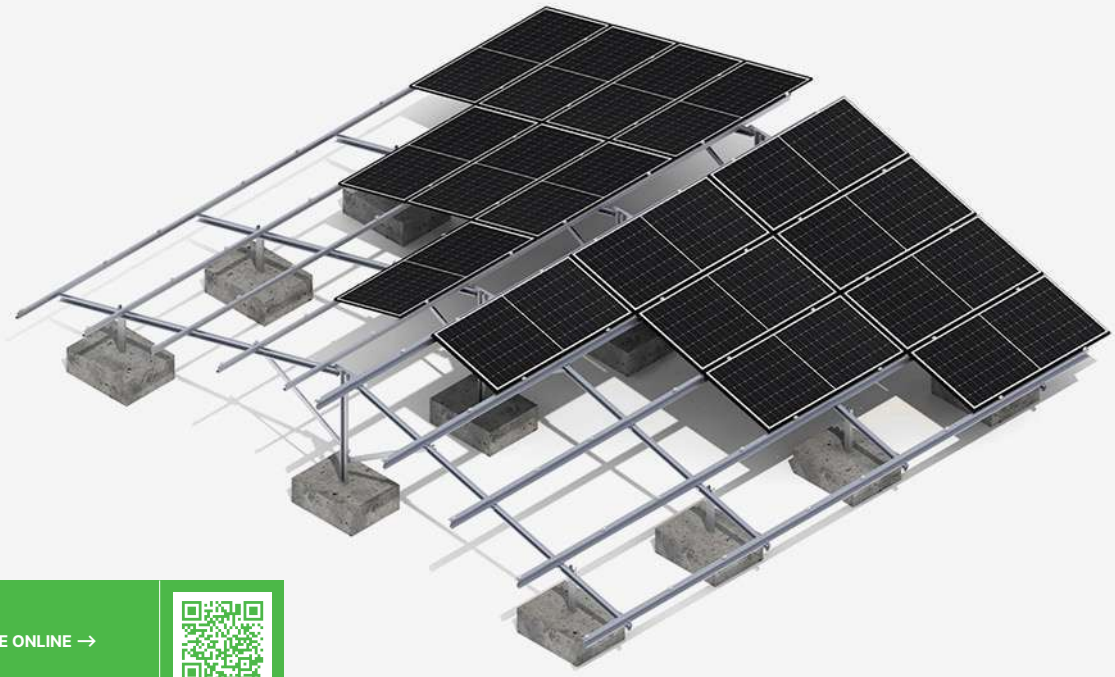
LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

22 Ballast structure

G-B-I-EW/H/3/4×4-4×4

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NUMBER OF PV MODULES
Individual (I)	East-west (EW)	Horizontal (H)	Three	4×4 + 4×4 (+8)



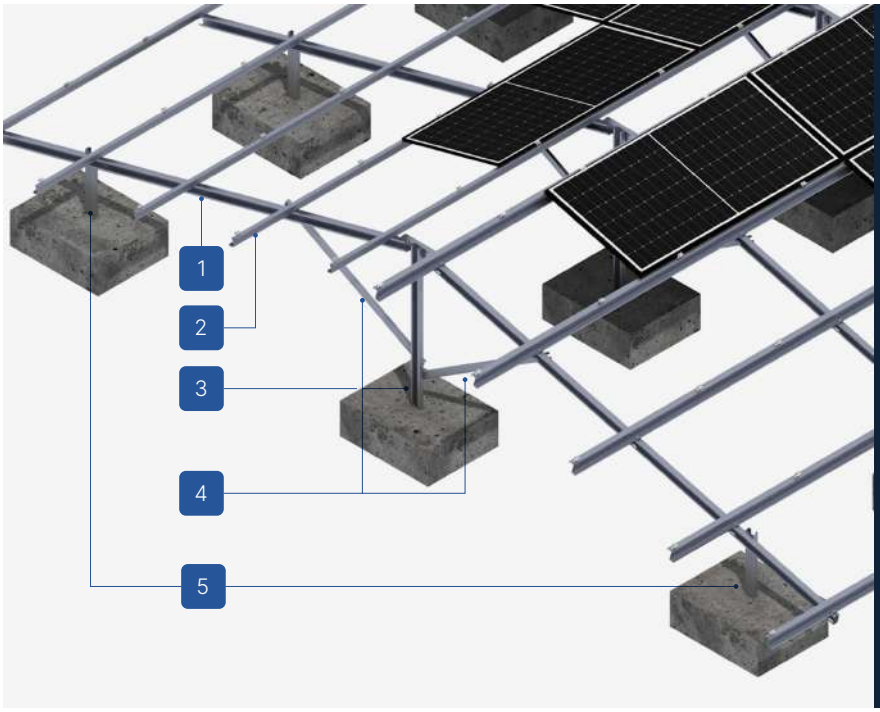
SEE ONLINE →

DESCRIPTION

- A multipart ground structure made of Magnelis™ steel designed for soils and areas where additional ballasting is required.
- Excellent for constructing installations above 50 kW that require building permits, and whose components need optimization due to the specific location of the structure.
- The mounting system is constructed from individually selected structural elements, including beams, latches, and legs, allowing for the use of the structure only for predetermined modules and their sizes.
- The screw system used for mounting beams, latches, and legs does not require servicing as long as the installation is carried out according to the instructions.
- Before production, it is necessary to provide a site development plan along with module installation instructions.
- The system is designed for ground installations where the primary criterion for choosing the structure is the need for additional ballasting.
- There is the possibility of applying a hybrid system, allowing for the weighting of the leg/legs in places where it is not possible to drill it/them to a specified depth.

We recommend that each structure intended for production be previously calculated by our Technical Department regarding its installation in a specified wind and snow zone.

The structure is designed for individually specified wind and snow zones, with individually selected ballast. To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Latch
2. Purlin
3. Long leg/support
4. Strut
5. Short leg/support

	G-B-I-EW/H/3/4×4-4×4
Type of substrate	Ground (G)
Construction installation method	Ballast structure (B)
Type of construction	Individual (I)
Module orientation	East-west (EW)
Module layout	Horizontal (H)
Number of columns	3
Number of PV modules	4×4 + 4×4 (+8)
Type of modules	Standard/Bifacial
Shape of the column	C-profile / CW-profile
Does the construction require additional ballast?	Yes
Is it possible to use a hybrid solution (piling + ballast)?	Yes - possibility of additinal ballasting
Minimum number of modules on the structure	32
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum PV module size (mm)	-
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Strut

Carports

Carports (CP)

CARD NO.	CONSTRUCION TYPE	MODULE DIRECTION	MODULE LAYOUT	NUMBER OF SUPPORTS	PV MODULE SIZE (MAX)	NUMBER OF PV MODULES	PAGE
01	Universal (US)	South (S)	Vertical (V)	4	W=1200	3×3	183
02	Universal (US)	South (S)	Vertical (V)	4	W=1200	3×5 / 3×6	186
03	Individual (I)	South (S)	Vertical (V)	4	customized		189
04	Individual (I)	South (S)	Vertical (V)	4	customized		192

Individual structures are made for an individual order with 4 week production period.
Universal structures are currently in stock and available on hand.

01 Single space carport

CP1-US-S/V/4/3×3/MAX-WIDTH1200

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NO. / WIDTH (MAX) OF PV MODULES
Universal (US)	South (S)	Vertical (V)	Four	3×3 / 1200

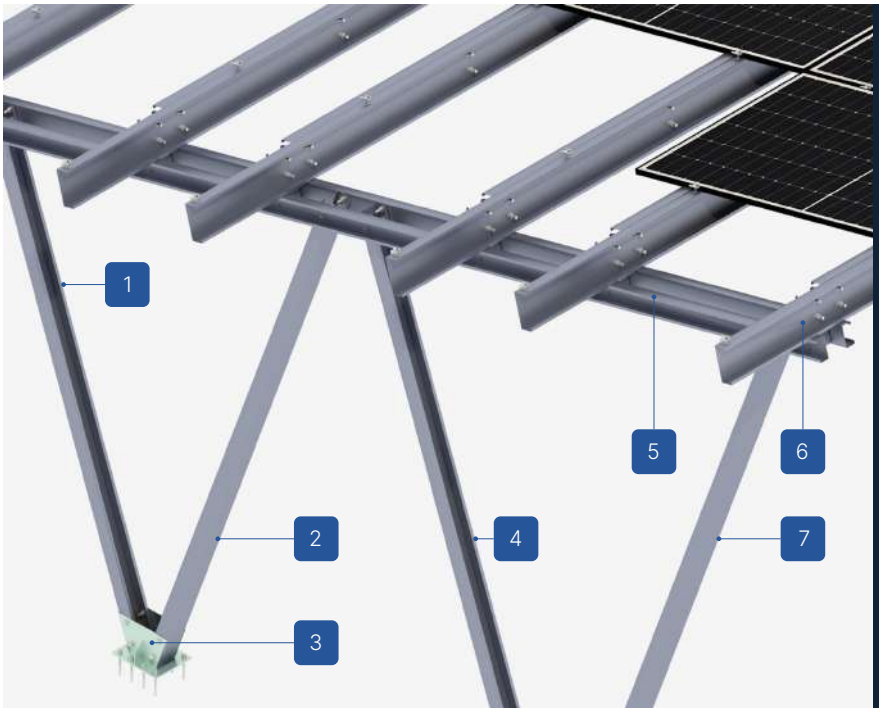
SEE ONLINE →

DESCRIPTION

- Universal mounting system built with adjustable and densely perforated beams, allowing for the use of structures for modules of different power and size.
- A four-support system in the shape of the letter V.
- A multipart construction made of Magnelis™ steel, designed for various types of car ramps and parking lots - with the need for additional ballasting.
- The applied screw system for mounting beams, latches, and posts does not require servicing, provided that the installation is carried out in accordance with the instructions.
- Excellent for building small home installations up to 10 kW.
- In the case of multi-space carports, a modular system has been applied, allowing for the assembly and connection of an unlimited number of segments.
- The possibility of using a hybrid system in which there is an option to attach the post/posts to prefabricated ballast blocks placed directly on the ground in areas where it is not possible to anchor the blocks in the ground to a specified depth.

Upon the customer's request, every structure intended for production can be analyzed by our Technical Department regarding its installation in a specified wind and snow zone, as well as based on previously examined geotechnical conditions.

The structure is designed for wind and snow zones specified as W1S2.
To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Leg/support 1
2. Leg/support 2
3. Base of the construction
4. Leg/support 3
5. Latch
6. Purlin
7. Leg/support 4

CHARACTERISTICS	CP1-US-S/V/4/3×3/MAX-WIDTH1200
Type of substrate	Ground
Type of construction and installation method	Carport (CP), mounted to a prefabricated foundation using chemical anchors
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
Number of PV modules:	3×3
Type of modules	Standard/Bifacial
Shape of the column	V-shaped
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	No
Minimum number of modules on the construction	9 in case the width of the modules does not exceed 1200 mm
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum length of the PV module (mm)	-
Standard inclination	15°
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Hexagonal nut
M12 IE

NM12Z

Hexagonal nut
M16 IE

NM16Z

Washer M12 300HV
ISO7093-1 IE

PSZM12Z

Washer M16 300HV
ISO7093-1 IE

PSZM16Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M12X30 IE

SM12X30Z

Hexagonal screw
M16X30 IE

SM16X30Z

Support frame

Purlin

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Foundation footing

02 Double space carport

CP2-US-S/V/4/3×6

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NO. / WIDTH (MAX) OF PV MODULES
Universal (US)	South (S)	Vertical (V)	Four	3×6 / 1200

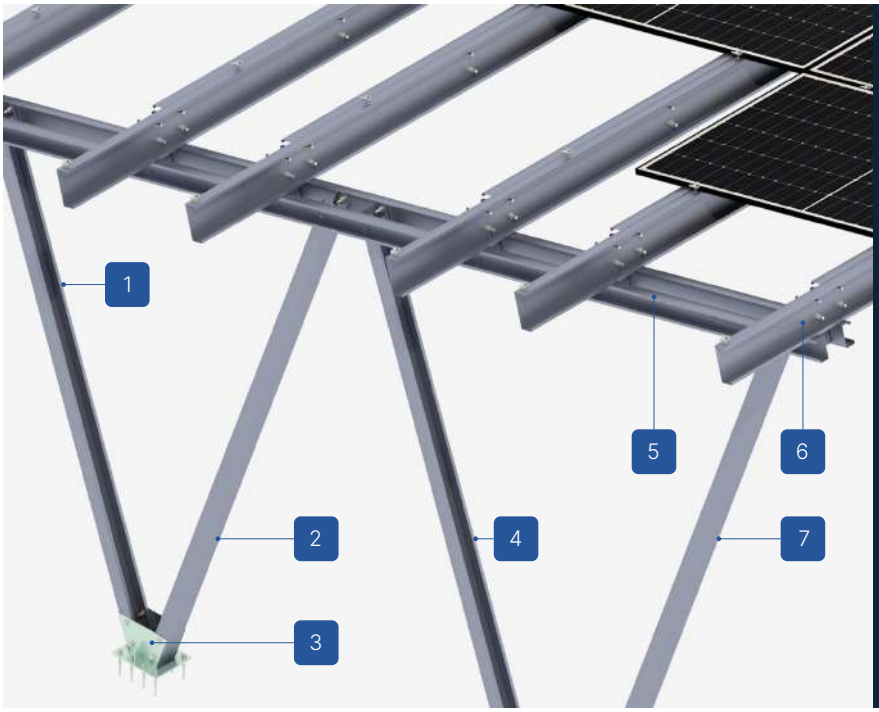
SEE ONLINE →

DESCRIPTION

- Universal mounting system built with adjustable and densely perforated beams, allowing for the use of structures for modules of different power and size.
- A four-support system in the shape of the letter V.
- A multipart construction made of Magnelis™ steel, designed for various types of car ramps and parking lots - with the need for additional ballasting.
- The applied screw system for mounting beams, latches, and posts does not require servicing, provided that the installation is carried out in accordance with the instructions.
- Excellent for building small home installations up to 10 kW.
- In the case of multi-space carports, a modular system has been applied, allowing for the assembly and connection of an unlimited number of segments.
- The possibility of using a hybrid system in which there is an option to attach the post/posts to prefabricated ballast blocks placed directly on the ground in areas where it is not possible to anchor the blocks in the ground to a specified depth.

Upon the customer's request, every structure intended for production can be analyzed by our Technical Department regarding its installation in a specified wind and snow zone, as well as based on previously examined geotechnical conditions.

The structure is designed for wind and snow zones specified as W1S2.
To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Leg/support 1
2. Leg/support 2
3. Base of the construction
4. Leg/support 3
5. Latch
6. Purlin
7. Leg/support 4

CHARACTERISTICS	CP2-US-S/V/4/3×6
Type of substrate	Ground
Type of construction and installation method	Carport (CP), mounted to a prefabricated foundation using chemical anchors
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
Number of PV modules:	3×6
Type of modules	Standard/Bifacial
Shape of the column	V-shaped
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	No
Minimum number of modules on the construction	18 in case the width of the modules does not exceed 1200 mm
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum length of the PV module (mm)	-
Standard inclination	15°
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Hexagonal nut
M12 IE

NM12Z

Hexagonal nut
M16 IE

NM16Z

Washer M12 300HV
ISO7093-1 IE

PSZM12Z

Washer M16 300HV
ISO7093-1 IE

PSZM16Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M12X30 IE

SM12X30Z

Hexagonal screw
M16X30 IE

SM16X30Z

Support frame

Purlin

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Foundation footing

03 Single space multimodule carport

CP1-I-S/V/4/MULTI

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NO. / WIDTH (MAX) OF PV MODULES
Individual (I)	South (S)	Vertical (V)	Four	Customized

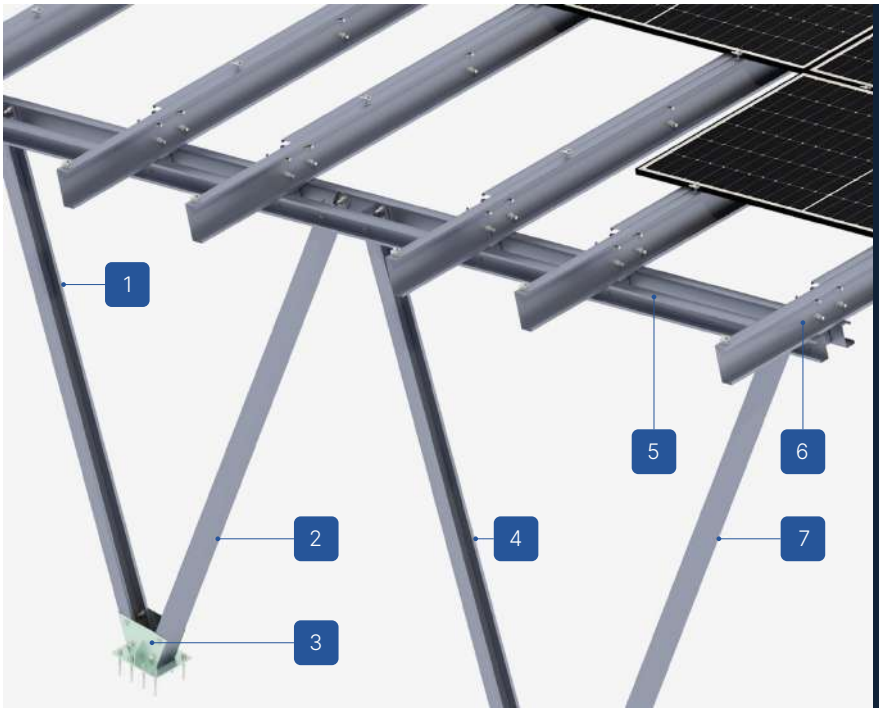
SEE ONLINE →

DESCRIPTION

- Universal mounting system built with adjustable and densely perforated beams, allowing for the use of structures for modules of different power and size.
- A four-support system in the shape of the letter V.
- A multipart construction made of Magnelis™ steel, designed for various types of car ramps and parking lots - with the need for additional ballasting.
- The applied screw system for mounting beams, latches, and posts does not require servicing, provided that the installation is carried out in accordance with the instructions.
- Excellent for building small home installations up to 10 kW.
- In the case of multi-space carports, a modular system has been applied, allowing for the assembly and connection of an unlimited number of segments.
- The possibility of using a hybrid system in which there is an option to attach the post/posts to prefabricated ballast blocks placed directly on the ground in areas where it is not possible to anchor the blocks in the ground to a specified depth.

Upon the customer's request, every structure intended for production can be analyzed by our Technical Department regarding its installation in a specified wind and snow zone, as well as based on previously examined geotechnical conditions.

The structure is designed for wind and snow zones specified as W1S2.
To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Leg/support 1
2. Leg/support 2
3. Base of the construction
4. Leg/support 3
5. Latch
6. Purlin
7. Leg/support 4

CHARACTERISTICS	CP1-I-S/V/4/MULTI
Type of substrate	Ground
Type of construction and installation method	Carport (CP), mounted to a prefabricated foundation using chemical anchors
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of PV modules:	Customized
Type of modules	Standard/Bifacial
Shape of the column	V-shaped
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	No
Minimum number of modules on the construction	Customized
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum length of the PV module (mm)	-
Standard inclination	15°
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Hexagonal nut
M12 IE

NM12Z

Hexagonal nut
M16 IE

NM16Z

Washer M12 300HV
ISO7093-1 IE

PSZM12Z

Washer M16 300HV
ISO7093-1 IE

PSZM16Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M12X30 IE

SM12X30Z

Hexagonal screw
M16X30 IE

SM16X30Z

Support frame

Purlin

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Foundation footing

04 Double space multimodule carport

CP2-I-S/V/4/MULTI

TYPE	MODULE DIRECTION	MODULE LAYOUT	SUPPORTS NO.	NO. / WIDTH (MAX) OF PV MODULES
Individual (I)	South (S)	Vertical (V)	Four	Customized

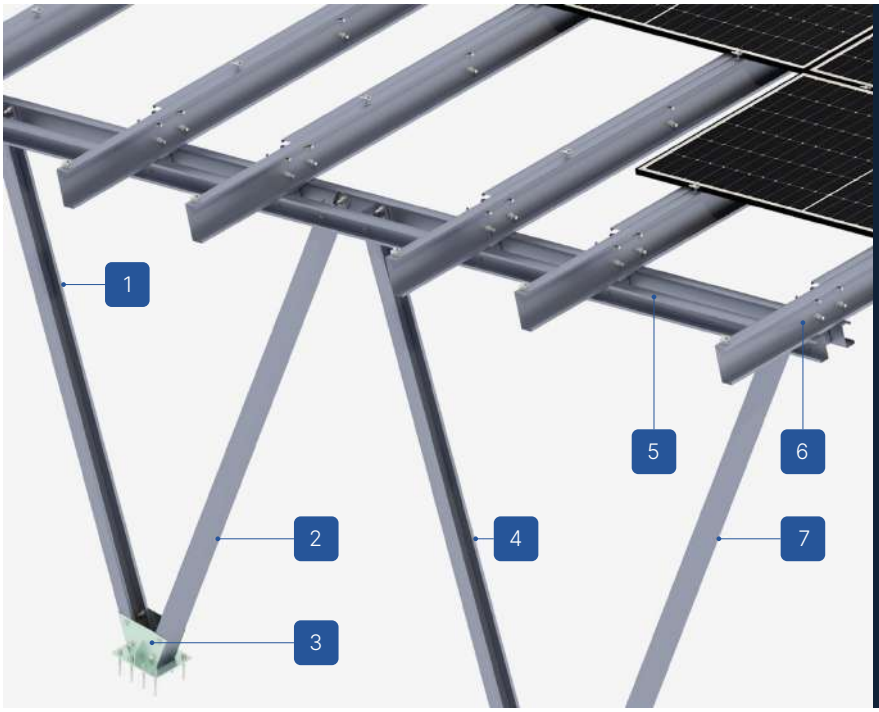
SEE ONLINE →

DESCRIPTION

- Universal mounting system built with adjustable and densely perforated beams, allowing for the use of structures for modules of different power and size.
- A four-support system in the shape of the letter V.
- A multipart construction made of Magnelis™ steel, designed for various types of car ramps and parking lots - with the need for additional ballasting.
- The applied screw system for mounting beams, latches, and posts does not require servicing, provided that the installation is carried out in accordance with the instructions.
- Excellent for building small home installations up to 10 kW.
- In the case of multi-space carports, a modular system has been applied, allowing for the assembly and connection of an unlimited number of segments.
- The possibility of using a hybrid system in which there is an option to attach the post/posts to prefabricated ballast blocks placed directly on the ground in areas where it is not possible to anchor the blocks in the ground to a specified depth.

Upon the customer's request, every structure intended for production can be analyzed by our Technical Department regarding its installation in a specified wind and snow zone, as well as based on previously examined geotechnical conditions.

The structure is designed for wind and snow zones specified as W1S2.
To initiate production, a prepayment is required, the amount of which is specified in the offer.



1. Leg/support 1
2. Leg/support 2
3. Base of the construction
4. Leg/support 3
5. Latch
6. Purlin
7. Leg/support 4

CHARACTERISTICS	CP2-I-S/V/4/MULTI
Type of substrate	Ground
Type of construction and installation method	Carport (CP), mounted to a prefabricated foundation using chemical anchors
Type of construction	Individual (I)
Module orientation	South (S)
Module layout	Vertical (V)
Number of PV modules:	Customized
Type of modules	Standard/Bifacial
Shape of the column	V-shaped
Does the construction require additional ballast?	No
Is it possible to use a hybrid solution (piling + ballast)?	No
Minimum number of modules on the construction	Customized
Height of standard clamps (mm)	35
Thickness of standard clamps (mm)	5
Maximum length of the PV module (mm)	-
Standard inclination	15°
Distribution method	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Flange nut
serrated
M8 DIN6923 A2

NKM8A2

Hexagonal nut
M12 IE

NM12Z

Hexagonal nut
M16 IE

NM16Z

Washer M12 300HV
ISO7093-1 IE

PSZM12Z

Washer M16 300HV
ISO7093-1 IE

PSZM16Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

Hexagonal screw
M12X30 IE

SM12X30Z

Hexagonal screw
M16X30 IE

SM16X30Z

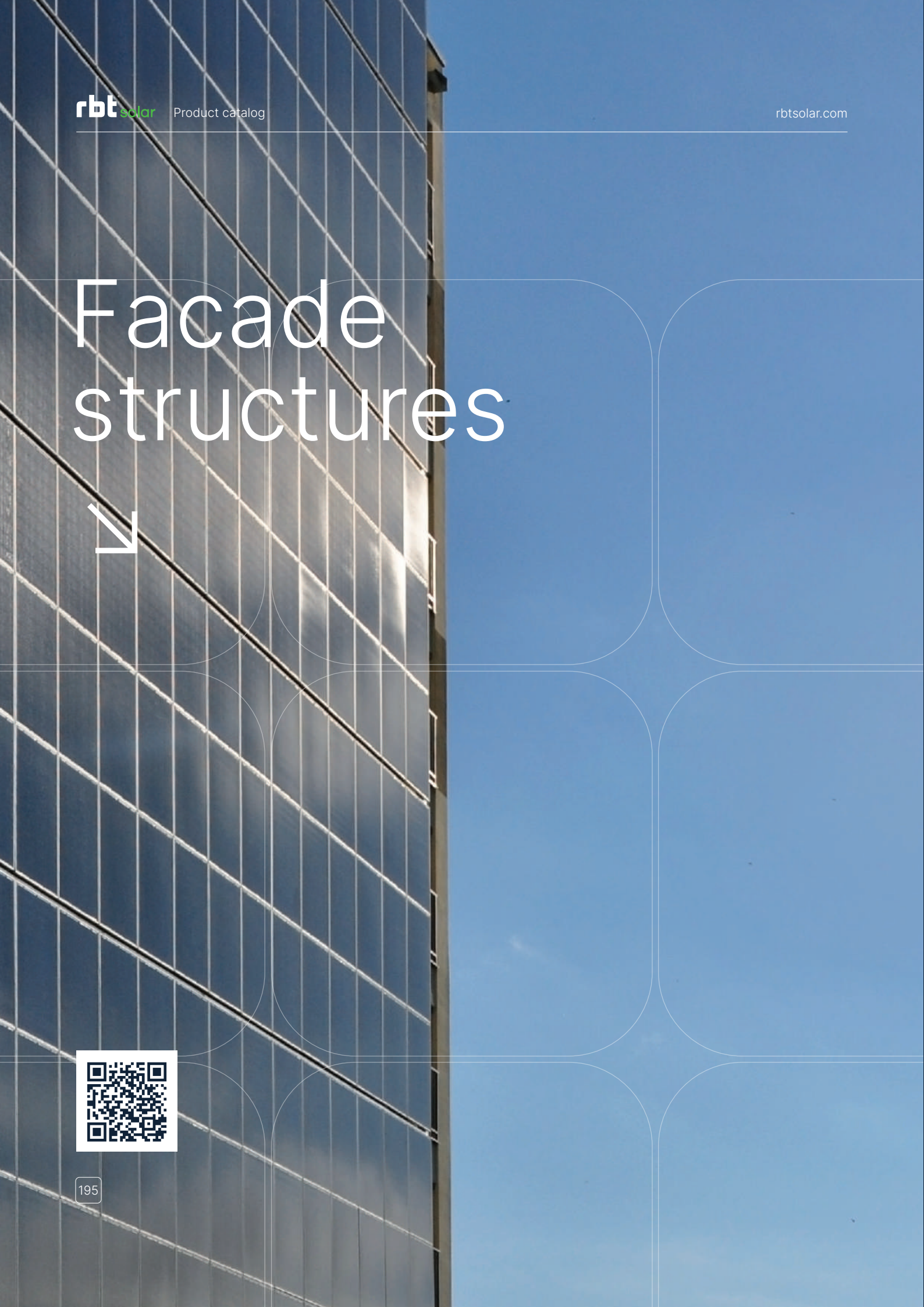
Support frame

Purlin

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Foundation footing

Facade structures



Facade structures (FA)

CARD NO.	CONSTRUCION TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MOUNTING BASE	PAGE
01	Universal (US)	South (S)	Vertical (V)	Long side (LA)	Concrete, ceramics, silicate (CCS)	197
02	Universal (US)	South (S)	Horizontal (H)	Long side (LA)	Concrete, ceramics, silicate (CCS)	
03	Individual (I)	South (S)	Vertical (V)	Long side (LA)	Sandwich panel, metal sheet (SP)	200
04	Individual (I)	South (S)	Horizontal (H)	Long side (LA)	Sandwich panel, metal sheet (SP)	

Individual structures are made for an individual order with 4 week production period.
Universal structures are currently in stock and available on hand.

01 Facade structure

FA-US-S/V/LA/CCS

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MOUNTING BASE
Universal (US)	South (S)	Vertical (V)	Long side (LA)	Concrete, ceramics, silicate (CCS)

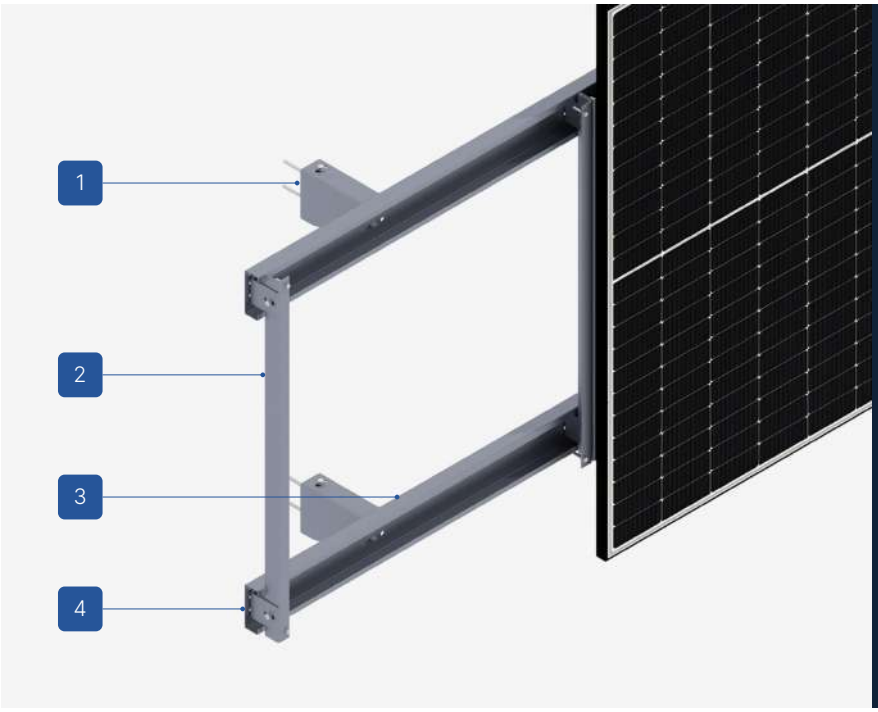
SEE ONLINE →

DESCRIPTION

- A multi-part facade structure made of aerated concrete, ceramics or silicate and further insulated with wool or polystyrene.
- An invasive system composed of adjustable consoles, which are mounted to the facade using screws of appropriate length, and then to which profiles (on which PV modules, previously equipped in neccessary mounts, are suspended) are attached.
- A universal mounting system composed of adjustable, telescopic elements, enabling the use of structures with modules of various power and sizes.
- The structure has been designed to shorten the base assembly and, at the same time, make the number of mounting points to the facade as small as possible.

At the customer's request, each installation using a structure is calculated by our Technical Department in terms of its load on the facade, as well as the method and number of points that constitute the basis for the installation of profiles, to which the modules are mounted.

Facade structures (FA)



1. Adjustable wall console
2. Mounting strip for PV module
3. Mounting rail
4. Mounting angle

CHARACTERISTICS	FA-US-S/V/LA/CCS
Destination	Facades (FA)
Type of construction	Universal (US)
Module orientation	South (S)
Module layout	Vertical (V)
How to install a PV module	Long side (LA)
Mounting base	Concrete, ceramics, silicate (CCS)
Module type	Standard/Bifacial
Minimum number of PV modules	1
Standard clamps height (mm)	35
Standard clamps width (mm)	5
Maximum PV module length (mm)	-
Distribution	Available in stock

LIST OF PARTS - BASE OF CONSTRUCTION

End clamp
35
Nature/Black

KLK50/35ALN
KLK50/35ALCZ

Middle clamp
50 universal
Nature/Black

KLSR50ALN
KLSR50ALCZ

Self-locking nut
M8 DIN985 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Allen screw
M8X100 DIN912 A2

SIM8X100A2

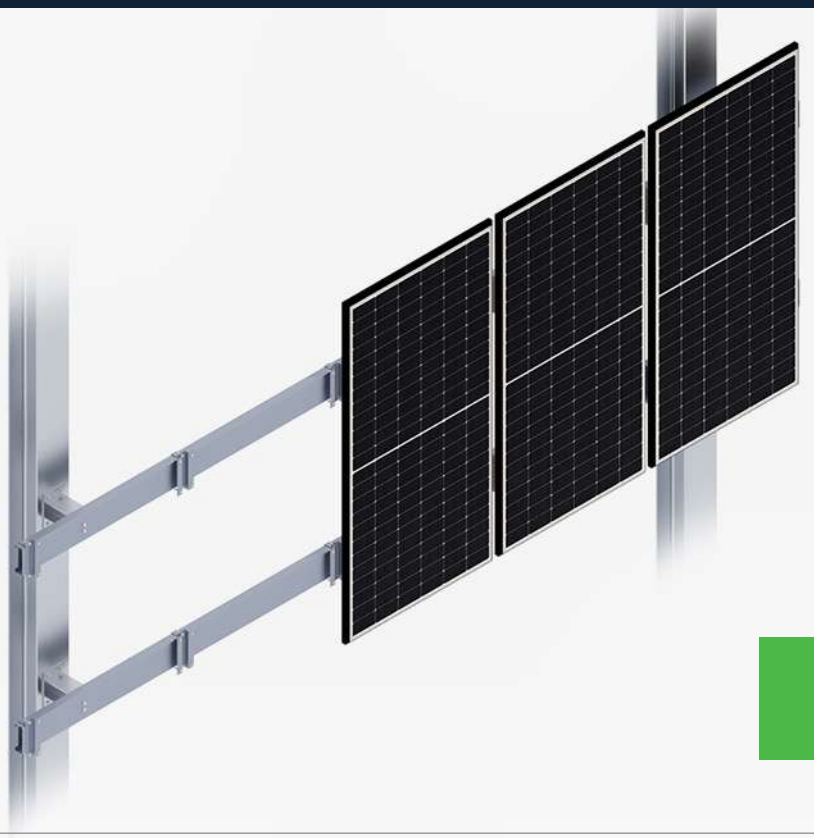
Hexagonal screw
M10X20 IE

SM10X20Z

03 Facade structure

FA-I-S/V/LA/SP

TYPE	MODULE DIRECTION	MODULE LAYOUT	INSTALLATION	MOUNTING BASE
Individual (I)	South (S)	Vertical (V)	Long side (LA)	Sandwich panel, metal sheet (SP)



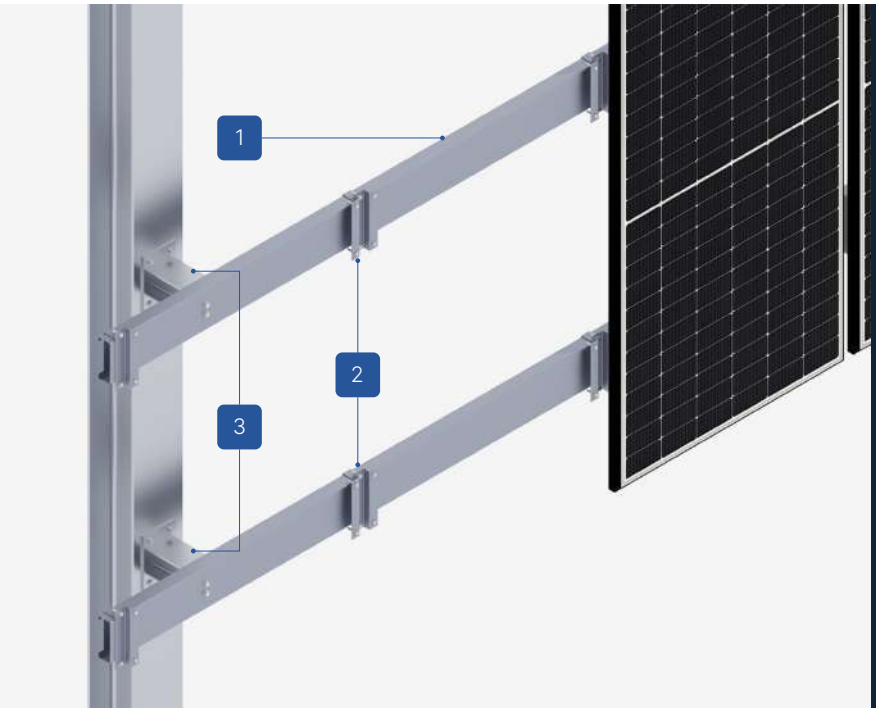
SEE ONLINE →

OPIS KONSTRUKCJI

- A multi-part facade structure made of Magnelis™ sheet, designed for facades constructed using sandwich panel or trapezoidal sheet technology.
- An invasive system composed of adjustable consoles, which are mounted to the facade using screws of appropriate length, and then to which profiles (on which PV modules, previously equipped in neccessary mounts, are suspended) are attached.
- A universal mounting system composed of adjustable, telescopic elements, enabling the use of structures with modules of various power and sizes.
- A system designed for facades where the basis for the construction choice is the impossibility of applying installation mounting on the roof or ground.
- The structure has been designed to shorten the base assembly and, at the same time, make the number of mounting points to the facade as small as possible.

At the customer's request, each installation using a structure is calculated by our Technical Department in terms of its load on the facade, as well as the method and number of points that constitute the basis for the installation of profiles, to which the modules are mounted.

Facade structures (FA)



1. Mounting rail
2. Mounting clamp
3. Steel bracket/support

CHARACTERISTICS	FA-I-S/V/LA/SP
Destination	Facades (FA)
Type of construction	Individual (US)
Module orientation	South (S)
Module layout	Vertical (V)
How to install a PV module	Long side (LA)
Mounting base	Sandwich panel, metal sheet (SP)
Module type	Standard/Bifacial
Minimum number of PV modules	1
Standard clamps height (mm)	35
Standard clamps width (mm)	5
Maximum PV module length (mm)	-
Distribution	Individual order

LIST OF PARTS - BASE OF CONSTRUCTION

Self-locking nut
M8 DIN985 A2

NSHM8A2

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Round washer
A2 8.4 DIN125A

PPM8A2

Hexagonal screw
M8X20 DIN933 A2

SM8X20A2

Hexagonal screw
M10X20 IE

SM10X20Z

Trackers

Trackers (T)

TYPE	CARD NO.	CONSTRUCION TYPE	MODULE DIRECTION	MODULE LAYOUT	NUMBER OF PILES	PAGE
Piled (P)	01	Single axis (1AT)	East-west (EW)	Vertical (V)	1 (1P)	205

Individual structures are made for an individual order with 4 week production period.
Universal structures are currently in stock and available on hand.

01 Single axis tracker

T-P-1AT-EW/V/1P

TYPE	CONSTRUCTION	MODULE DIRECTION	MODULE LAYOUT	NUMBER OF PILES
Piled (P)	Single axis (1AT)	East-west (EW)	Vertical (V)	1

Designed to follow the sun

SEE ONLINE →

DESCRIPTION

MECHANICS:

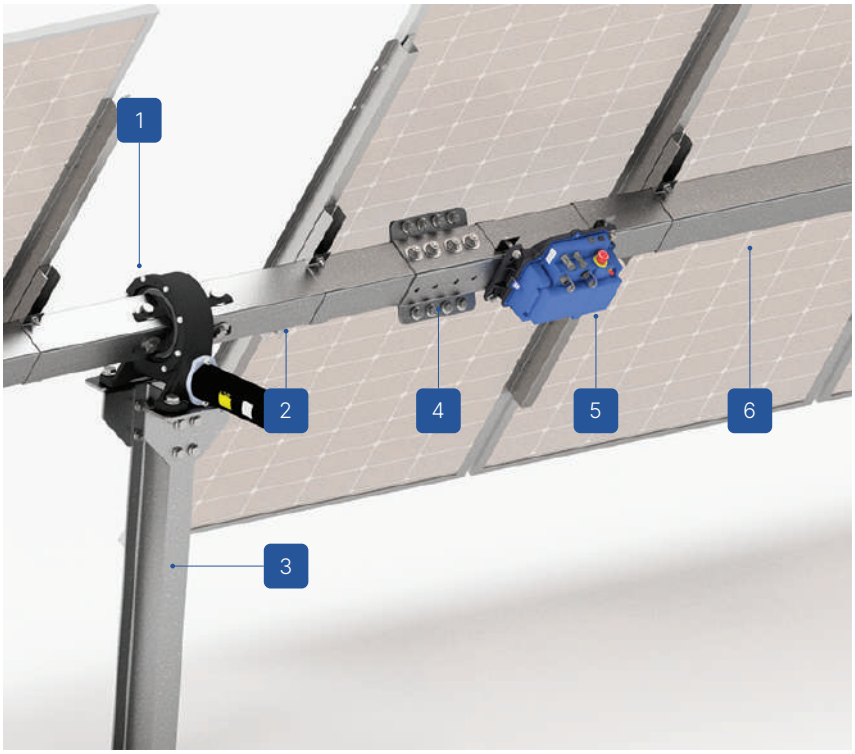
- Strength verification of structure parameters carried out by a specialist laboratory.
- Various tracker lengths available to suit specific number of strings, and the selection of number and length of the trackers is individually carried out for each project.
- Design assumptions implemented according to the DFA methodology (Designed for Assembly).
- Split adaptive bearings adjust its position to variable thermal or geometric deformations of the supporting beam.
- The use of an intermediate purlin to increase the central support surface of the load-bearing purlin connected to the PV panel.
- Drive leg is in the same axis as the support columns (the length of the support columns is selected individually, depending on the geographical and geological conditions of the project).
- Standardization of structural elements.
- Optimization of screw connections.

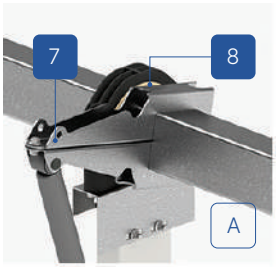
CONTROLS:

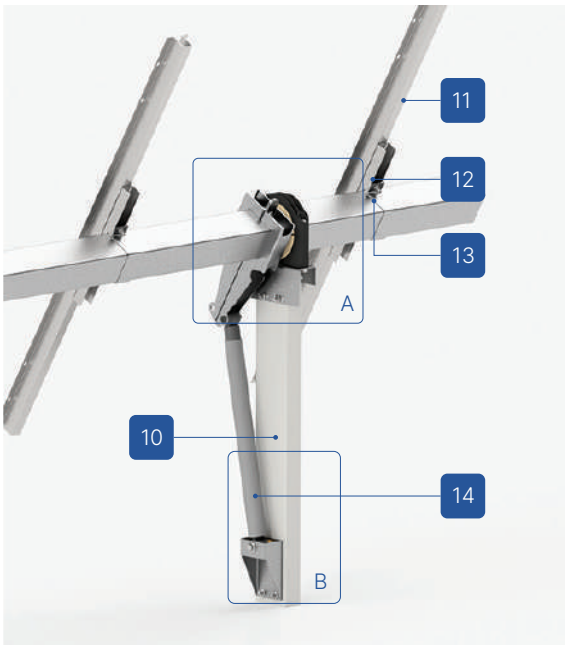
- Device is using an advanced astronomical algorithm to control the position of the panels in relation to the current position of the sun.
- Intuitive installation and startup configuration system.
- Configurable alarm and notification management.
- Backward algorithm that prevents and minimizes row shading.
- Zigbee® wireless communication system, or wired RS-485.
- Remote monitoring and preventive maintenance to reduce installation downtime (easy integration with SCADA system in the Modbus TCP/IP standard).
- Possibility of individual configuration of the tracker operation depending on the order of rows and terrain slope.
- Safety system against excessive wind speed (safe positioning of PV panels).
- Possibility of using various service modes related to the position of the panels, e.g. snow removal, cleaning.
- Possibility to use a snow level detector.
- Possibility of current and historical verification of installation parameters via cloud data storage.

CHARACTERISTICS	T-P-1AT-EW/V/1P
Construction base	Ground
Method of mounting	Piled (P)
Type of construction	Tracker (T), single axis (1A)
Module orientation	East-west (EW)
Module layout	Vertical (V)
PV module length (MAX)	2300
Type of tracking	Automatic, horizontal[1]
Tracking algorithm	Direct astronomical patterns; Tracking precision = 2,0°[2]
Rotation range	±60°
Ground cover factor	Any configuration determined by the customer (from 32% to 50%)
PV module compatibility	Standard/Bifacial
Drive system	1 independent horizontal rotation drive per 1 tracker
Modules per tracker	max 60 (individual configuration possible)
Power supply	dedicated photovoltaic modules + 230V AC 50/60 Hz[3] battery
Communication	Zigbee® wireless (or wired RS-485) communication system
Monitoring	Modbus TCP/IP, possibity of integration with SCADA system
Adaptation to the slope of terrain	up to 6% in N-S direction
Wind resistance	1) Up to 80 km/h in any given position 2) Up to 140 km/h in horizontal or any position configured as neutral
Method of distribution	Individual order

[1] Recommended alignment of the tracker axis along the north-south direction.
[2] Possible individual adjustment of traction to the topography of the terrain.
[3] Possibility of UPS usage.







1. Central drive
   RBTSOLAR-1AT-TGB-CD
2. Secondary beam
   RBTSOLAR-1AT-SB
3. Central IPE 160 drive column
   RBTSOLAR-1AT-CD-C
4. Beam connector
   RBTSOLAR-1AT-B-C
5. TCU controller
   RBTSOLAR-1AT-P4Q-CTR
6. Main beam
   RBTSOLAR-1AT-MB
7. Damper upper arm
   RBTSOLAR-1AT-D-UA
8. Main beam bearing
   RBTSOLAR-1AT-TGB-MB-B
9. Damper low joint
   RBTSOLAR-1AT-D-LJ
10. Main column
    RBTSOLAR-1AT-MC

11 Purlin
   RBTSOLAR-1AT-PLN

12. Purlin runner
    RBTSOLAR-1AT-PLN-R
13. Purlin joint
    RBTSOLAR-1AT-PLN-J
14. Damper
    RBTSOLAR-1AT-TGB-D

TECHNICAL NOTES

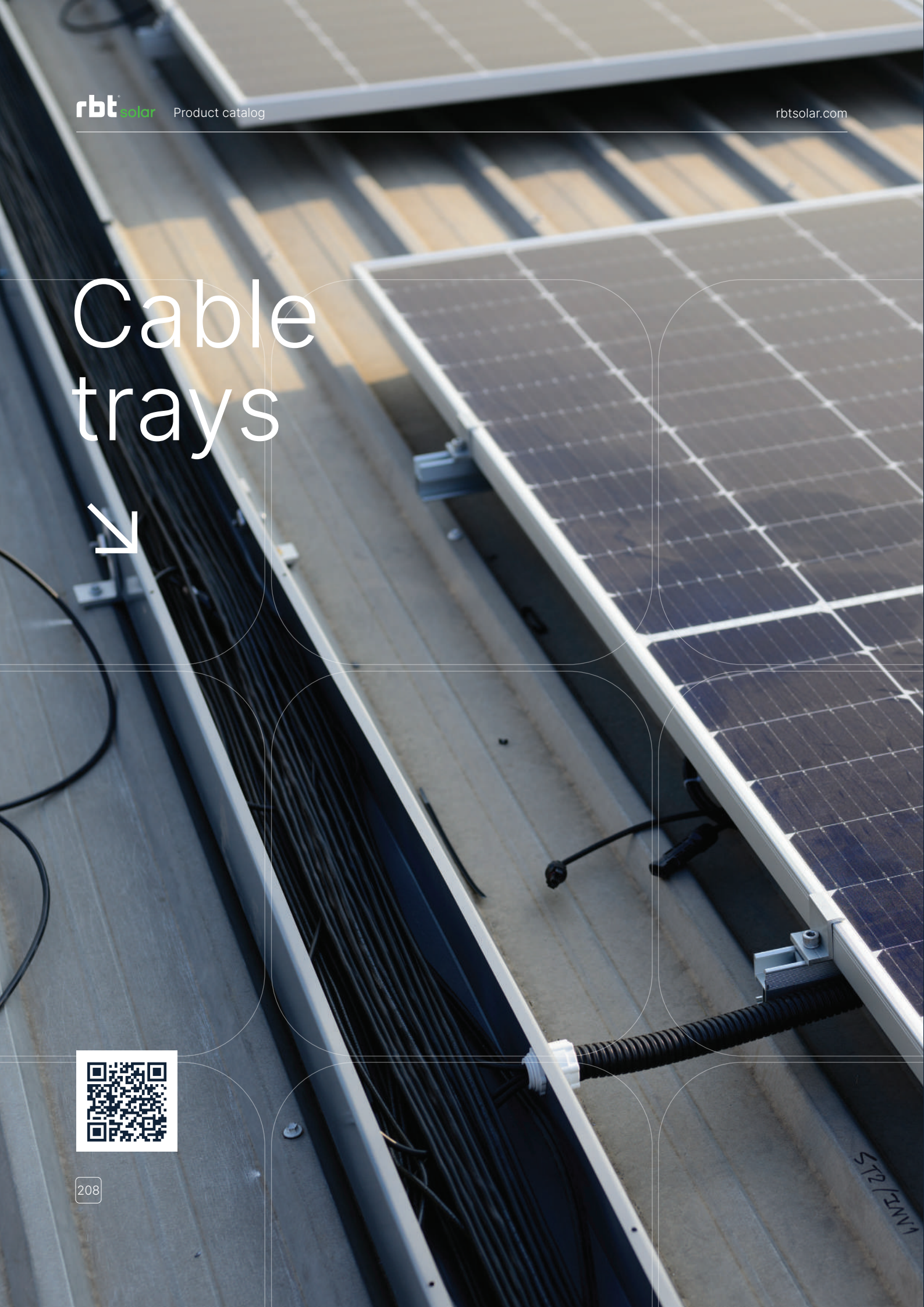
Assembly method:
Screw connections. Designed for fast and easy installation.
No on-site welding or drilling required.
Materials:
Construction graded steel.

SERVICE

Maintenance-free bearings.
Inspection and maintenance of the rotary drive every 2 years.

Technical inspections according to individual arrangements.

Cable trays



Cable trays (KD)

Individual structures are made for an individual order with 4 week production period.
Universal structures are currently in stock and available on hand.

01 Cable trays

KD-KK-60×50×3000
KD-KK-100×50×3000
KD-KK-200×50×3000

SEE ONLINE →

DESCRIPTION

Cable trays with widths of 60, 100, and 200 mm complement our photovoltaic structures, forming a **complete system** designed for the construction of photovoltaic installations mounted on **roofs, grounds, and parking lots** - characterized not only by accessibility, but also **durability**, achieved through the use of high-quality steel resistant to corrosion in C3 environments, ensuring the required **corrosion resistance for a minimum of 10 years.**

- A universal mounting system, built with cable trays of varying widths and connecting elements, allowing for versatile installation.
- A multipart cable tray system, made of Magnelis™ steel, designed for various types of installations, mounted using our structures and beyond.
- Excellent for building small home installations up to 10 kW.
- The system is intended for installations, where the primary criterion is the need to install trays outside the building and in cases where a warranty period exceeding 10 years is required for C3 environments (in accordance with the warranty terms available on the website www.rbtsolar.com).

Upon the customer's request, our Technical Department can create a specification for the installation of cable trays for a specific PV system, for which a construction diagram of our photovoltaic production has also been prepared.

To initiate production, a prepayment is required, similar to the process for constructions produced for individual orders.

LIST OF PARTS - BASE OF CONSTRUCTION

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

BLW55X25EPDMZ

Welded base
for support

RBTSOLAR-KD-PZ

Clamp for
welded base

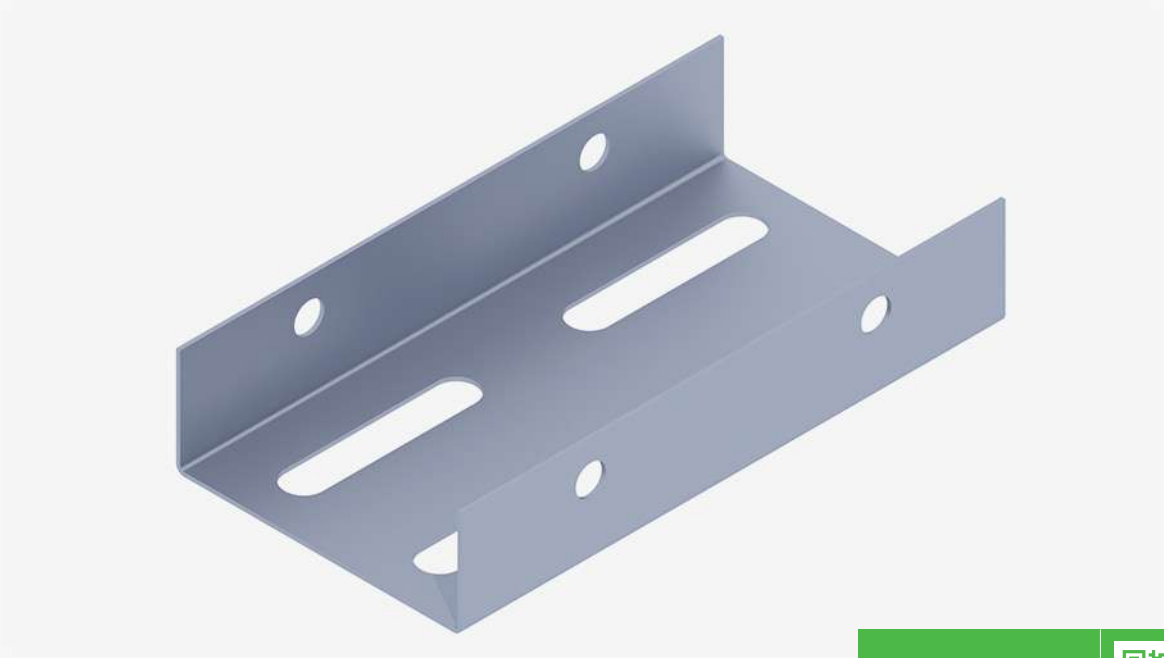
KD-KK-PZ-93×85×200

Cable tray
W=65/105/205

KD-KK-65/105/205×13×3000

02 Straight connectors

KD-KK-L-65×40×200
KD-KK-L-105×40×200
KD-KK-L-205×40×200



SEE ONLINE →

DESCRIPTION

Straight connectors with widths of 65, 105 and 205 mm complement our photovoltaic structures, forming a **complete system** designed for the construction of photovoltaic installations mounted on **roofs, grounds, and parking lots** - characterized not only by accessibility, but also **durability**, achieved through the use of high-quality steel resistant to corrosion in C3 environments, ensuring the required **corrosion resistance for a minimum of 10 years.**

- A universal mounting system, built with cable trays of varying widths and connecting elements, allowing for versatile installation.
- A multipart cable tray system, made of Magnelis™ steel, designed for various types of installations, mounted using our structures and beyond.
- Excellent for building small home installations up to 10 kW.
- The system is intended for installations, where the primary criterion is the need to install trays outside the building and in cases where a warranty period exceeding 10 years is required for C3 environments (in accordance with the warranty terms available on the website www.rbtsolar.com).

Upon the customer's request, our Technical Department can create a specification for the installation of cable trays for a specific PV system, for which a construction diagram of our photovoltaic production has also been prepared.

To initiate production, a prepayment is required, similar to the process for constructions produced for individual orders.

LIST OF PARTS - BASE OF CONSTRUCTION

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Hexagonal screw
M10X20 IE

SM10X20Z

03 Vertical 45° connectors

KD-KK-LP45-60×50
KD-KK-LP45-100×50
KD-KK-LP45-200×50

SEE ONLINE →

DESCRIPTION

Vertical 45° connectors with widths of 60, 100 and 200 mm complement our photovoltaic structures, forming a **complete system** designed for the construction of photovoltaic installations mounted on **roofs, grounds, and parking lots** - characterized not only by accessibility, but also **durability**, achieved through the use of high-quality steel resistant to corrosion in C3 environments, ensuring the required **corrosion resistance for a minimum of 10 years.**

- A universal mounting system, built with cable trays of varying widths and connecting elements, allowing for versatile installation.
- A multipart cable tray system, made of Magnelis™ steel, designed for various types of installations, mounted using our structures and beyond.
- Excellent for building small home installations up to 10 kW.
- The system is intended for installations, where the primary criterion is the need to install trays outside the building and in cases where a warranty period exceeding 10 years is required for C3 environments (in accordance with the warranty terms available on the website www.rbtsolar.com).

Upon the customer's request, our Technical Department can create a specification for the installation of cable trays for a specific PV system, for which a construction diagram of our photovoltaic production has also been prepared.

To initiate production, a prepayment is required, similar to the process for constructions produced for individual orders.

LIST OF PARTS - BASE OF CONSTRUCTION

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

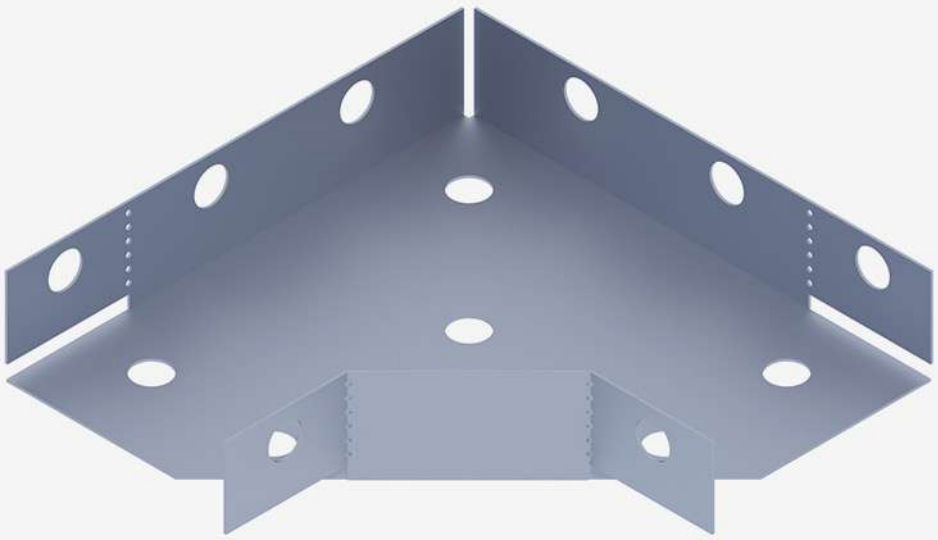
PSZM10Z

Hexagonal screw
M10X20 IE

SM10X20Z

04 Connectors 90˚

KD-KK-LK90-60×50
KD-KK-LK90-100×50
KD-KK-LK90-200×50



SEE ONLINE →

DESCRIPTION

90˚ connectors with width of 60, 100 and 200 mm complement our photovoltaic structures, forming a **complete system** designed for the construction of photovoltaic installations mounted on **roofs, grounds, and parking lots** - characterized not only by accessibility, but also **durability**, achieved through the use of high-quality steel resistant to corrosion in C3 environments, ensuring the required **corrosion resistance for a minimum of 10 years.**

- A universal mounting system, built with cable trays of varying widths and connecting elements, allowing for versatile installation.
- A multipart cable tray system, made of Magnelis™ steel, designed for various types of installations, mounted using our structures and beyond.
- Excellent for building small home installations up to 10 kW.
- The system is intended for installations, where the primary criterion is the need to install trays outside the building and in cases where a warranty period exceeding 10 years is required for C3 environments (in accordance with the warranty terms available on the website www.rbtsolar.com).

Upon the customer's request, our Technical Department can create a specification for the installation of cable trays for a specific PV system, for which a construction diagram of our photovoltaic production has also been prepared.

To initiate production, a prepayment is required, similar to the process for constructions produced for individual orders.

LIST OF PARTS - BASE OF CONSTRUCTION

Hexagonal nut
M10 IE

NM10Z

Washer M10 300HV
ISO7093-1 IE

PSZM10Z

Hexagonal screw
M10X20 IE

SM10X20Z

LIST OF PARTS - OTHER INSTALLATION ELEMENTS

Sheet metal screw
OC 5.5X25 EPDM

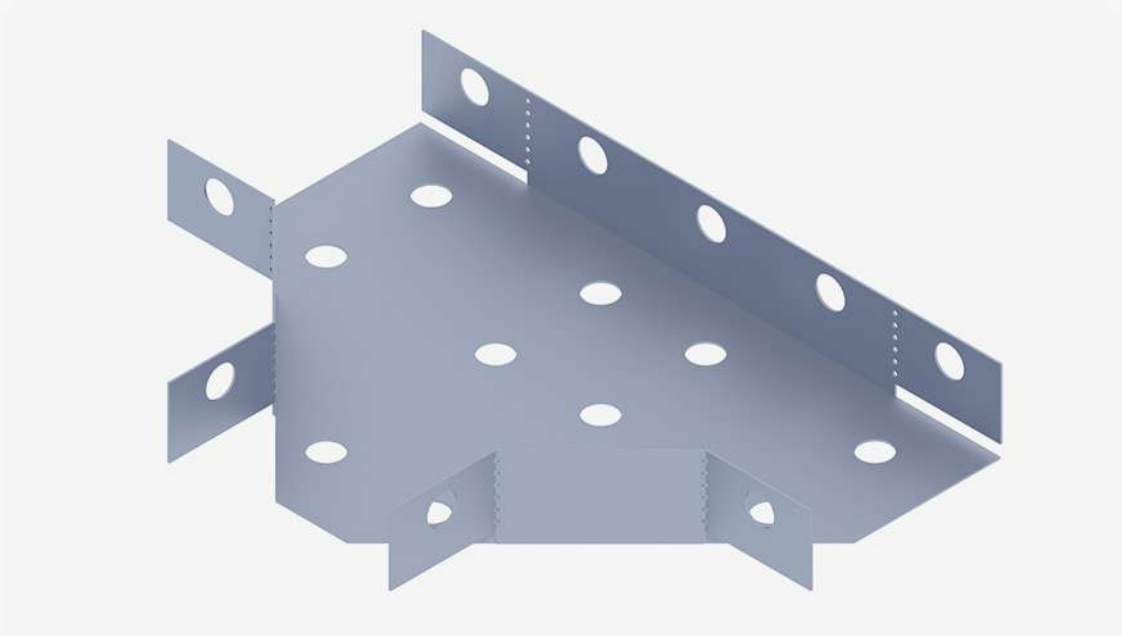
BLW55X25EPDMZ

Cover
W=60/100/200

RBTSOLAR-KD-KK-LKD90-60×50
RBTSOLAR-KD-KK-LKD90-100×50
RBTSOLAR-KD-KK-LKD90-200×50

05 Three-way connectors

KD-KK-LT90-60×50
KD-KK-LT90-100×50
KD-KK-LT90-200×50



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DESCRIPTION

Three-way connectos with width of 60, 100 and 200 mm complement our photovoltaic structures, forming a **complete system** designed for the construction of photovoltaic installations mounted on **roofs, grounds, and parking lots** - characterized not only by accessibility, but also **durability**, achieved through the use of high-quality steel resistant to corrosion in C3 environments, ensuring the required **corrosion resistance for a minimum of 10 years.**

- A universal mounting system, built with cable trays of varying widths and connecting elements, allowing for versatile installation.
- A multipart cable tray system, made of Magnelis™ steel, designed for various types of installations, mounted using our structures and beyond.
- Excellent for building small home installations up to 10 kW.
- The system is intended for installations, where the primary criterion is the need to install trays outside the building and in cases where a warranty period exceeding 10 years is required for C3 environments (in accordance with the warranty terms available on the website www.rbtsolar.com).

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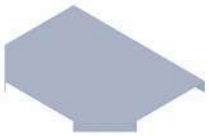

Cover
W=60/100/200

RBTSOLAR-KD-KK-LTD90-60×50
RBTSOLAR-KD-KK-LTD90-100×50
RBTSOLAR-KD-KK-LTD90-200×50

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Our representatives

REGION ↘	CONTACT ↘
Zachodniopomorskie, Śląskie, Opolskie	**Sebastian Jędraszek** +48 724 651 405 sebastian.jedraszek@rbtsolar.com
Mazowieckie, Łódzkie, Podlaskie	**Piotr Belowski** +48 724 270 337 piotr.belowski@rbtsolar.com
Pomorskie, Warmińsko-Mazurskie, Kujawsko-Pomorskie	**Tomasz Steindel** +48 724 445 300 tomasz.steindel@rbtsolar.com
Małopolskie, Podkarpackie, Lubelskie, Świętokrzyskie	**Radosław Mazurek** +48 885 582 057 radoslaw.mazurek@rbtsolar.com
Wielkopolskie, Dolnośląskie, Lubuskie	**Julian Nowak** +48 725 454 239 julian.nowak@rbtsolar.com
Lithuania, Latvia, Estonia	**Andrejus Krutko** +370 684 19934 andrejus.krutko@rbtsolar.com
Other countries	**Dana Kushel** +48 724 652 204 dana.kushel@rbtsolar.com

rbt solar

WE ARE PART OF GRUPA rexbud

CONTACT

+48 724 625 200

biuro@rbtsolar.com
rbtsolar.com

PRODUCTION FACILITY

ul. A. Struga 14
95-100 Zgierz
Poland
NIP 732 221 39 23

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