

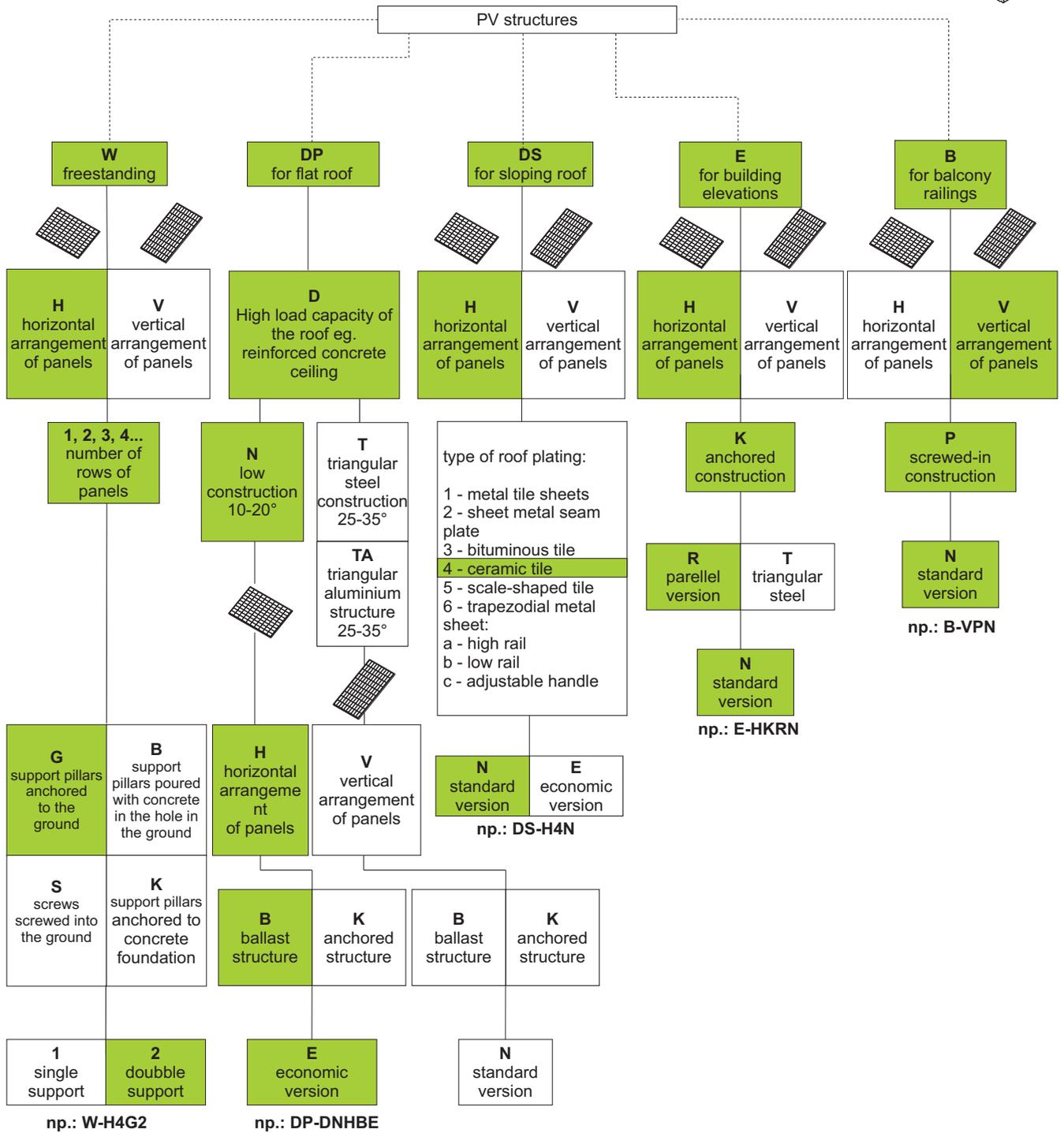
-  Mounting of clamps in green area allows load up to 5400 Pa (550 kg/m²)
-  Mounting of clamps in yellow area allows load up to 2400 Pa (244 kg/m²) *
-  Mounting of clamps in red area is not allowed

Note:

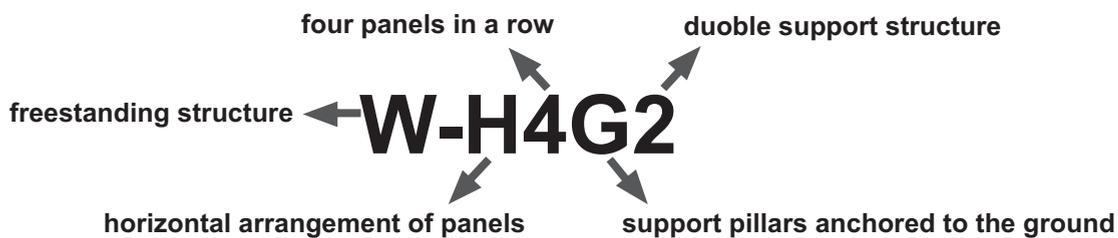
Please refer to the assembly instructions for the PV panel mounting area.

There should be a minimum of four clamps in the mounting zone of the same colour to ensure that the panel installation complies with the requirements of PV module manufacturers for the appropriate load. If the panel is mounted with four clamps but placed in two different areas it is adjusted for the lower load. While choosing the direction on the arrangement of the panels, please take into consideration maximum load capacity of the PV panel specified by the Manufacturer, which depends on the arrangement of the panels (vertical or horizontal) and differs depending on the height of the frame of the panel.

* - Please check the PV catalogue card, if the Manufacturer allows the possibility of mounting on the shorter side of PV panel.



An example selection path of a construction is marked with green





We kindly encourage to use BAKS Application for designing structures for photovoltaic installations.

The application selects structures according to the parameters set by the user. Selected structures meet all security requirements for the selected location. The application can be used by both private and business users and is free of charge, simply register on the BAKS website: http://www.baks.com.pl/en/konstrukcje_pv/

Installation location

street

zip code

city

figure 1

While using the application one should:

- indicate the location of the installation (figure 1)
- select the appropriate solar panel type from the database
- select the structure type: for flat roof, for sloping roof, freestanding (figure 2)
- select the number and layout of the panels in particular rows

Select the snow load zone and enter the average snow load value

snow load zone Average snow load value [kN/m2]

The application enables:

- deleting and moving solar panels on sloping roofs in order to move them away from shaded areas or to avoid any other obstacles (figure 3)
- determining the number and location of the mounting points for the installer
- generating the list of products necessary for making a complete support structure including the information on the weight of the whole structure
- generating an illustrative installation project for particular roof sections

Select the wind zone and enter the average wind speed

wind zone average wind speed [kN/m2]

The application is very intuitive so that the appropriate structure can be chosen in an easy and quick way, then adjusted to your individual needs, and finally the project for the installer and the list of products necessary for making the complete installation can be generated.

The generated product list may constitute a request for proposal so that a price quote can be prepared much quicker.

back

next

figure 2

rys.3

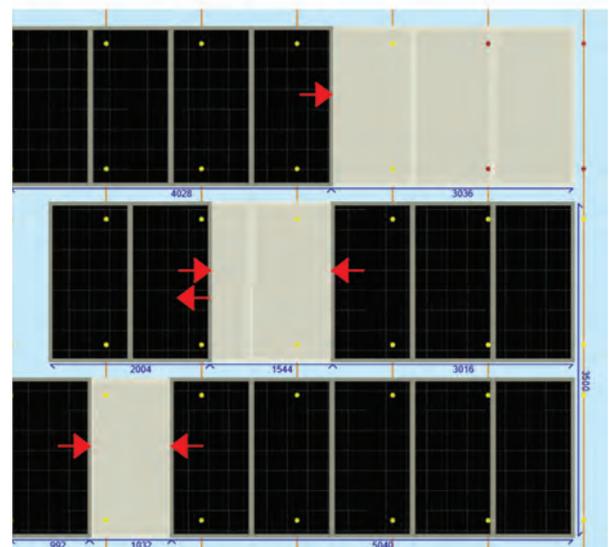
add next roof next

Structure type

Flat roofs

Sloping Roofs

back next



Advanced calculator for calculating the necessary ballast load for structures for flat roofs. With this tool quickly the weight or size of ballast necessary to ballast the structure can be selected quickly - depending on the type and size of PV panels, the size and layout of the roof and the location of the structure on the roof itself.

For more information on ballast selection please contact BAKS technical support:

Marcin Sobolewski e-mail: marcin.sobolewski@baks.com.pl
 Łukasz Winiarczyk e-mail: lukasz.winiarczyk@baks.com.pl

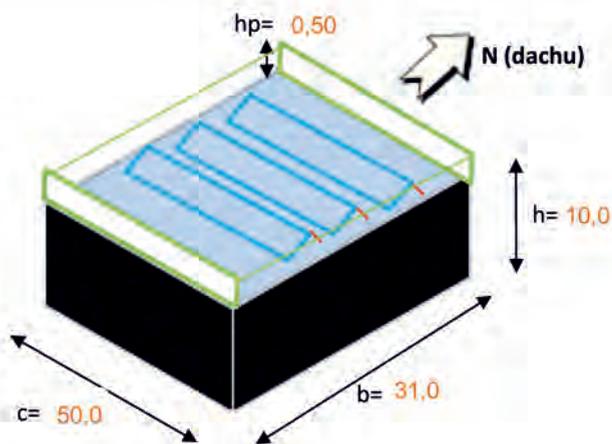
tel. 669 501 308
 tel. 669 501 206

Calculator for calculating the load-bearing capacity of structures for PV panels - rectangular roof	---	
	Date: 19.05.2020	Object: Support structure no.1
	Client: BAKS	

1. Structure definition:

1A. Building:

length **b = 31,0**
 side **c = 50,0**
 height **h = 10,0**
 attic height (the lowest of the surrounding) **h_p = 0,50**

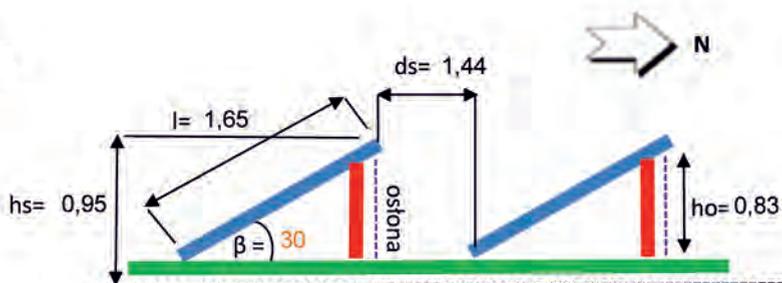


1B. PV panel structure scheme

Dimensions of PV panel:
 height: **0,991 m**
 width: **1,65 m**
 inclination angle: $\beta = 30$ degrees

Structure type: **DP-DTVBN**
 Arrangement type: vertical

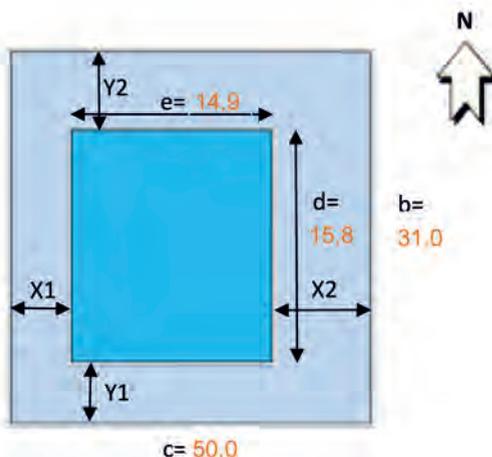
Is there rear wind protection? Yes
 Number of connected rows: 3 or more



1C. PV panels arrangement

Number of panels in a row: 15 pcs
 Length of row e: 14,9 m.
 Number of rows of panels: 6 pcs
 N-S length d: 15,8 m

Distance from the left wall X1: 2,0 m.
 Distance from the right wall X2: 33,1 m.
 Distance from the south wall Y1: 2,0 m.
 Distance from the north wall Y2: 13,2 m.
 Distance between rows d_s (shadow cast): 2,77 m.
 Distance between rows d_s (any): 0,85 m.
 Assumed value between panels rows d_s: 1,44 m.



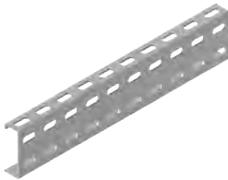
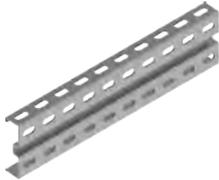
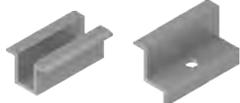
Freestanding mounting structures for the installation of photovoltaic panels



Freestanding structures systems:

- System: **W-V2G1** (2 panels arranged vertically on 1 support posts)
- System: **W-V2G1-WZ** (2 panels arranged vertically on 1 support posts, 2 constructions with panels oriented to the east and west)
- System: **W-V2G2** (2 panels arranged vertically on 2 support posts)
- System: **W-H3G1** (3 panels arranged horizontally on 1 support posts)
- System: **W-V3G2** (3 panels arranged vertically on 2 support posts)
- System: **W-H4G2** (4 panels arranged horizontally on 2 support posts)
- System: **W-H4G2-BI** (4 panels arranged horizontally on 2 support columns with bifacial panels)
- System: **W-H5G2** (5 panels arranged horizontally on 2 support posts)
- System: **W-H6G2** (6 panels arranged horizontally on 2 support posts)

Examples of system components:

 <p>Profile BDFC100...MC</p>	 <p>Profile BDFCH120...MC</p>	 <p>Support Channel CWC100H50...MC</p>	 <p>Channel Connector LKTT45H70MC</p>
 <p>Base Plate WPCWE...</p>	 <p>Channel Connector LCPT11MC</p>	 <p>Channel Connector LCPE11DMC</p>	 <p>Middle and Side Holders PUF and BUF...</p>

Advantages of freestanding structures for the installation of photovoltaic panels

- dense profile perforation provides a wide adjustment range without drilling
- longitudinal profile perforation allows for smooth adjustment of the inclination angle of the structure -
- possibility of assembling the structure - with only one type of screws - SGKFM10x20
- the perforation of the profiles reduces the weight of the structure - without reducing their strength properties. This means that installers do not have to carry heavy profiles and their work is more efficient.
- dense perforation allows panels to be mounted anywhere without drilling
- if it is not possible to mount the clamp to the profile as standard, there is a possibility to use the UPPMC holder and to grapple on the edge of the profile CMC100H50, which gives a stable fixing of the panel to the structure -
- by using a C-profile, cables can be laid in it safely
- the top perforation of the CWC100H50 profile allows for the installation of both click and standard screw clamps
- longitudinal perforation of support profiles allows for quick installation of brackets and cable trays for safe cable routing and installation of structures for inverters
- possibility to make legs with different sheet thicknesses (3 and 4 mm) depending on the quality of the soil
- production of profiles is carried out on top-class perforating machines, which ensures high quality and repeatability of the products. Profile ends are virtually free of sharp edges, which significantly reduces the possibility of installer's injuries
- profiles made of sheet metal with Magnelis® coating for long-term corrosion resistance
- products made in Poland!

Systems:



W-V2G1-30°



W-V2G1-WZ-10°



W-H3G1-30°



W-H4G2-30°



W-H4G2-BI-30°



W-H5G2-30°



W-H6G2-30°



W-V2G2-30°



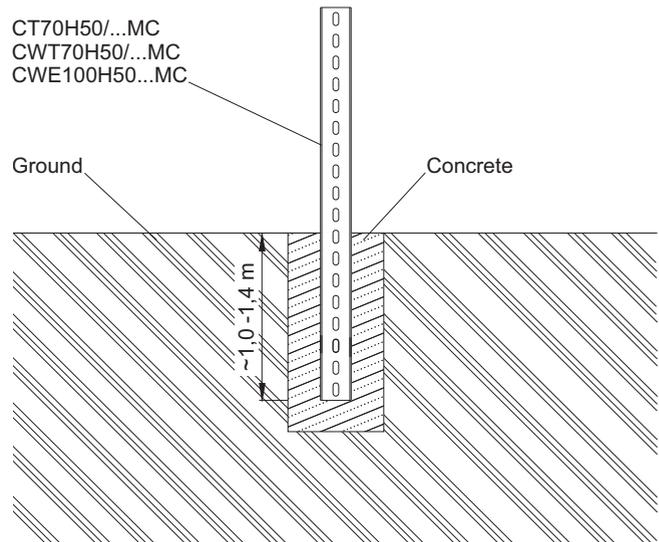
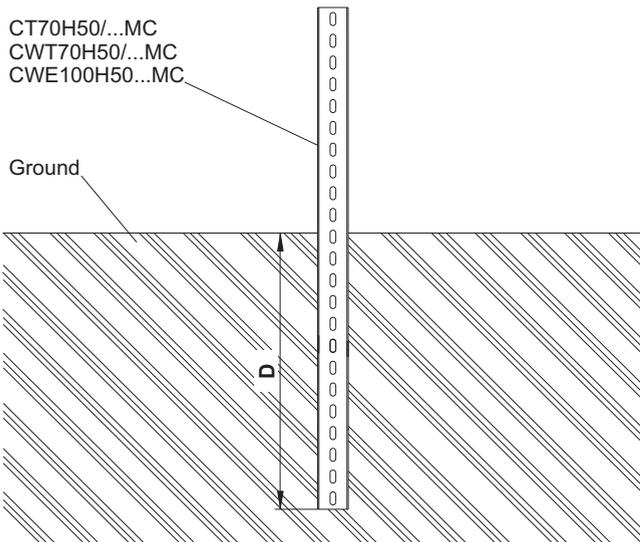
W-V3G2-30°

Recommended ways of mounting freestanding structures to the ground

Construction assembly variants:

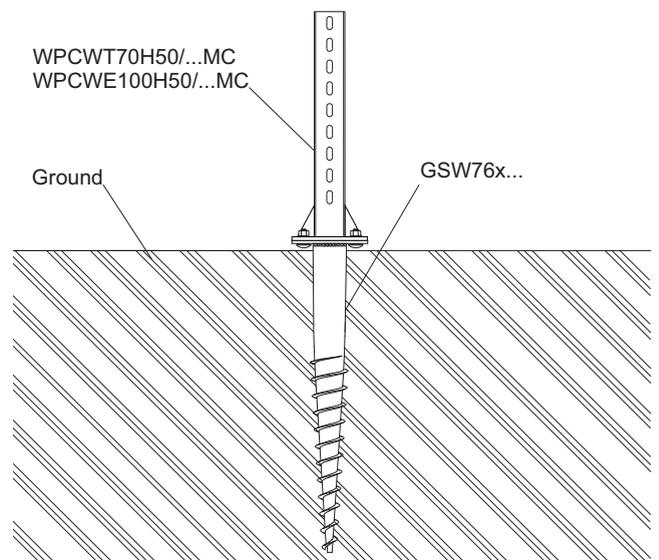
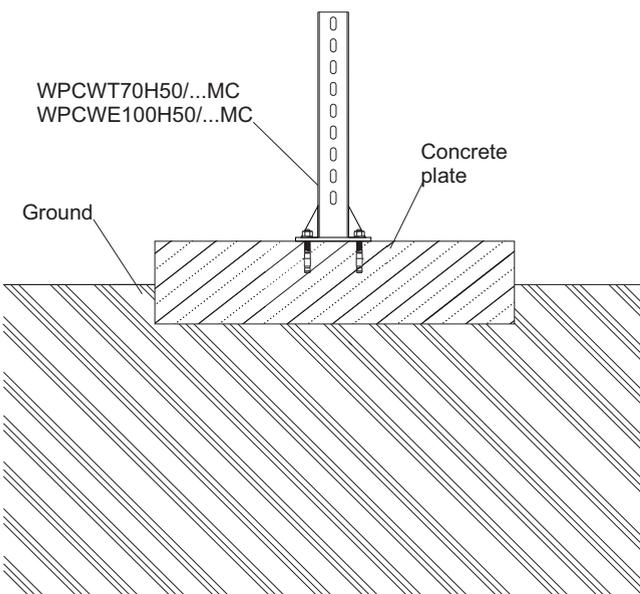
G - construction rammed into the ground:
 - support posts rammed into the ground by means of pile drivers
 (D - the ramming depth of the posts is determined individually depending on the soil quality at the installation site and on wind and snow conditions)

B - construction poured with concrete:
 - support posts poured with concrete min. B20 in the holes made in the ground (dimensions of the holes determined individually, depending on the type of applied structure - as well as wind and snow conditions at the installation site)



K - anchored structure -
 - support posts anchored to concrete foundation
 - possibility of applying mechanical and chemical anchors

S - screwed structure -
 - screws screwed into the ground for fixing the of the support posts
 - screwed in manually by means of appropriate extensions or by means of manual or self-driving devices for screwing ground screws





Mounting structure - for the installation of photovoltaic panels

- freestanding

System: **W-V2G1-30°** (optionally 25°)



Structure - description:

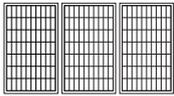
Complete support system for fixing two rows of panels in a vertical arrangement

Technical description:

Materials of the support system:
MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground
A- Aluminium
E- Stainless steel
F- Steel in zinc flake coating
 Structure - tested for strength

Arrangement of the modules:

- vertical - V



Ground conditions:

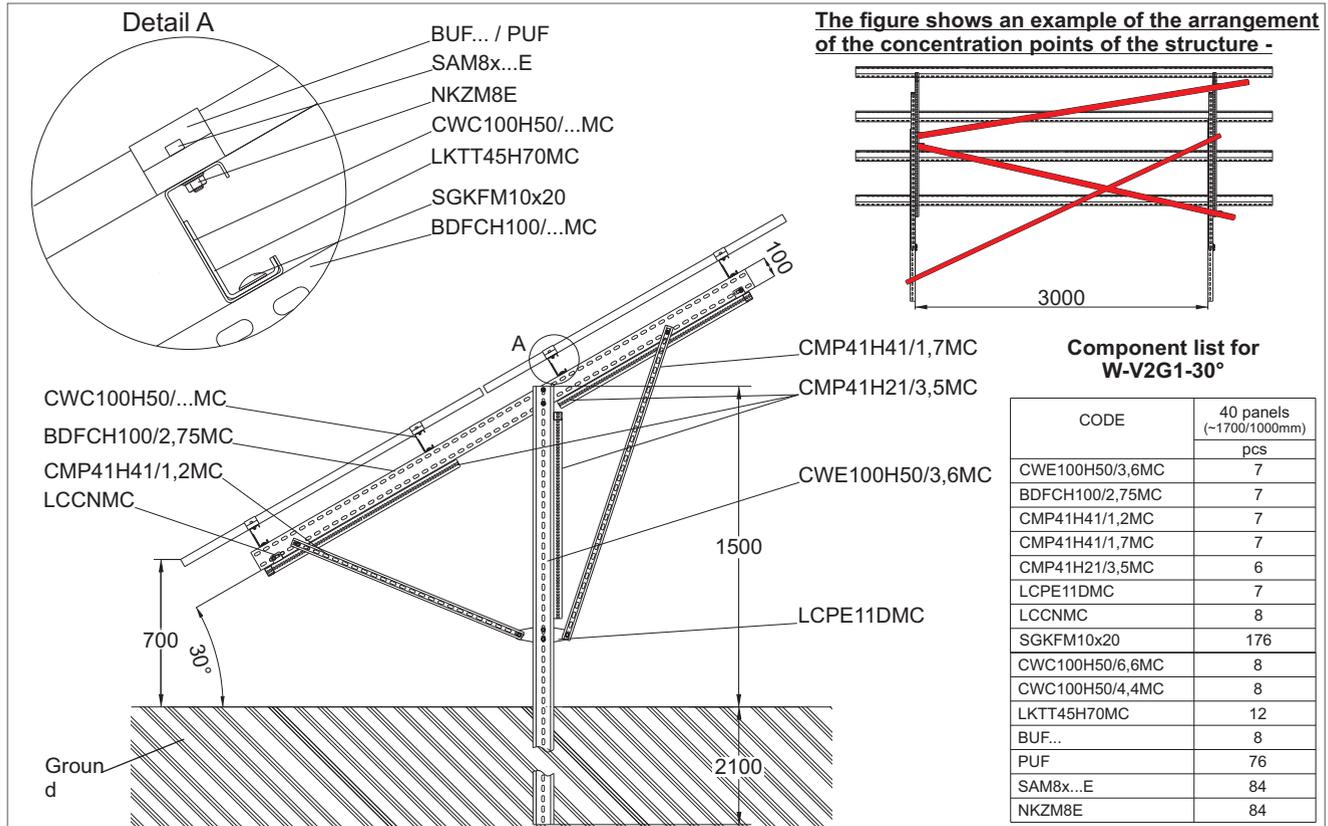
• soil with good/high load capacity

Construction assembly variants:

- W-V2G1 structure - rammed into the ground (anchorage depth depends on ground conditions)
- W-V2K1 structure - support posts anchored to the concrete foundation
- W-V2B1 structure - support posts poured with concrete, min. B20 in the holes in the ground (size of the foundation depends on the ground conditions)
- W-V2S1 structure - on request, a screw screwed into the ground for fixing of the support posts

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met. The warranty can be extended.



Detailed information on the products can be found on pages 47-75



Mounting structure - for the installation of photovoltaic panels

- freestanding

System: **W-V2G1-WZ-10°** (east-west)



Structure - description:

Complete support system for fixing two rows of panels in a vertical arrangement

Technical description:

Materials of the support system:

MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground

A- Aluminium

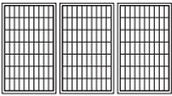
E- Stainless steel

F- Steel in zinc flake coating

Structure - tested for strength

Arrangement of the modules:

- vertical - **V**



Ground conditions:

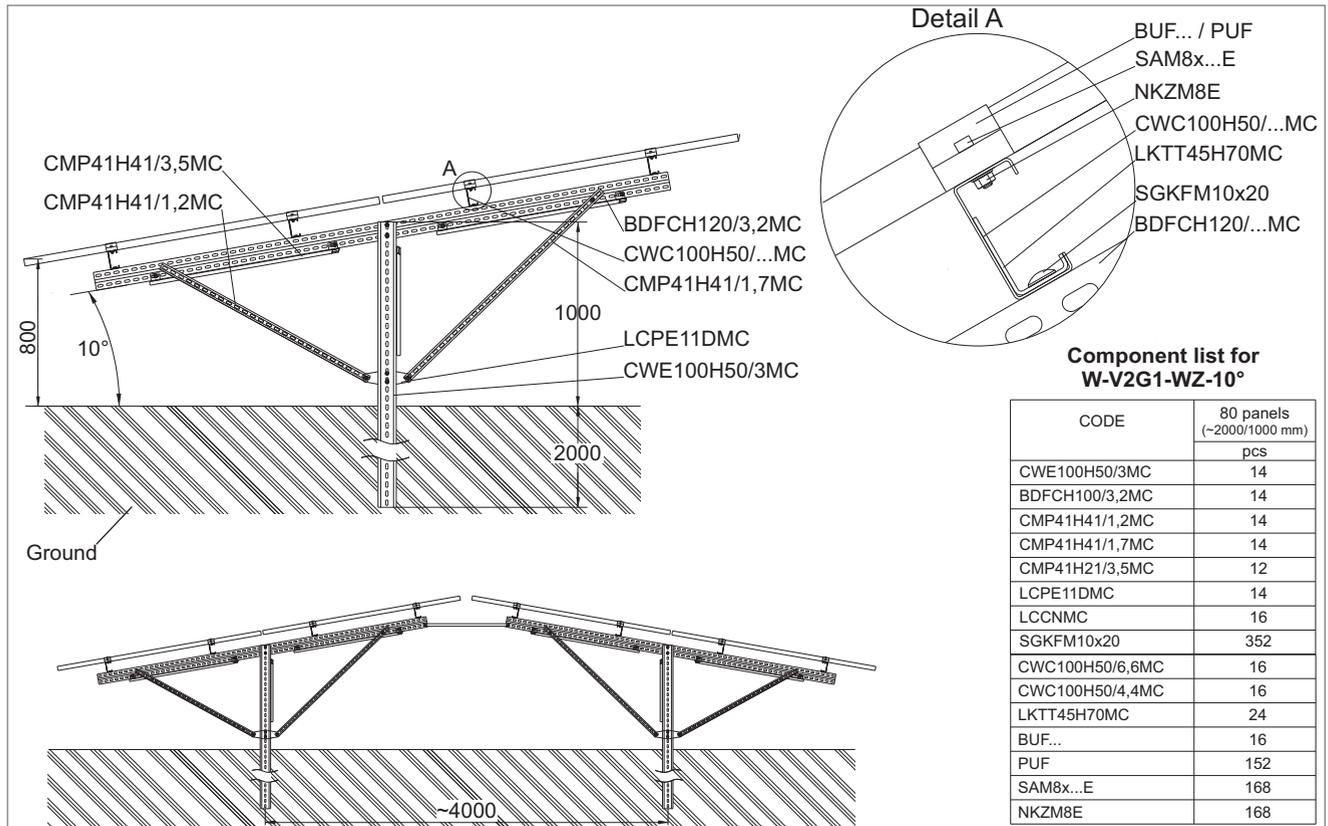
- soil with good/high load capacity

Construction assembly variants:

- W-V2G1-WZ structure - rammed into the ground (anchorage depth depends on ground conditions)
- W-V2K1-WZ structure - support posts anchored to the concrete foundation
- W-V2B1-WZ structure - support posts poured with concrete min. B20 in the holes in the ground (size of the foundation depends on the ground conditions)
- W-V2S1-WZ structure - on request, a screw screwed into the ground for fixing of the support posts

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met. The warranty can be extended.



Component list for W-V2G1-WZ-10°

CODE	80 panels (~2000/1000 mm)	
	pcs	
CWE100H50/3MC	14	
BDFCH100/3,2MC	14	
CMP41H41/1,2MC	14	
CMP41H41/1,7MC	14	
CMP41H21/3,5MC	12	
LCPE11DMC	14	
LCCNMC	16	
SGKFM10x20	352	
CWC100H50/6,6MC	16	
CWC100H50/4,4MC	16	
LKTT45H70MC	24	
BUF...	16	
PUF	152	
SAM8x...E	168	
NKZM8E	168	

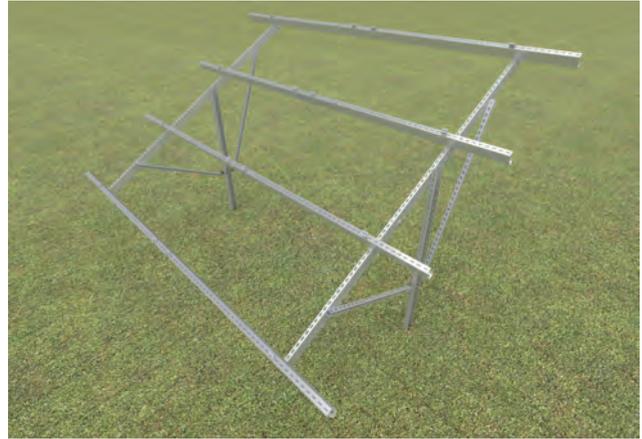
Detailed information on the products can be found on pages 47-75



Mounting structure - for the installation of photovoltaic panels

- freestanding

System: **W-H3G1-30°** (optionally 25°)



Structure - description:

Complete support system for fixing three rows of panels in a horizontal arrangement

Technical description:

Materials of the support system:

MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

Structure - tested for strength

Ground conditions:

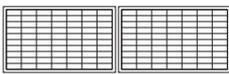
- soil with good/high load capacity

Construction assembly variants:

- W-H3G1 structure - rammed into the ground (anchorage depth depends on ground conditions)
- W-H3K1 structure - support posts anchored to the concrete foundation
- W-H3B1 structure - support posts poured with concrete min. B20 in the holes made in the ground (size of the foundation depends on the ground conditions)
- W-H3S1 structure - on request, a screw screwed into the ground for fixing of the support posts

Arrangement of the modules:

- horizontal - H



Warranty

BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met. The warranty can be extended.

Detail A

The figure shows an example of the arrangement of the concentration points of the structure -

Component list for W-H3G1-30°

CODE	45 panels (~1700/1000 mm) pcs
CWE100H50/3,6MC	8
BDFCH100/3,2MC	8
CMP41H41/1,2MC	8
CMP41H41/1,7MC	8
CMP41H41/3,5MC	8
LCPE11DMC	8
LCCNMC	8
CWC100H50/6,6MC	8
CWC100H50/4,4MC	12
LKTT45H70MC	16
BUF...	60
PUF	60
SAM8x...E	120
NKZM8E	120
SGKFM10x20	216

Detailed information on the products can be found on pages 47-75



Mounting structure - for the installation of photovoltaic panels

- freestanding

System: **W-H4G2-30°** (optionally 25°)



Structure - description:

Complete support system for fixing four rows of panels in a horizontal arrangement

Technical description:

Materials of the support system:

MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground

A- Aluminium

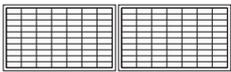
E- Stainless steel

F- Steel in zinc flake coating

Structure - tested for strength

Arrangement of the modules:

· horizontal - H



Ground conditions:

· soil with good/high load capacity

Construction assembly variants:

- W-H4G2 structure - rammed into the ground (anchorage depth depends on ground conditions)
- W-H4K2 structure - support posts anchored to the concrete foundation
- W-H4B2 structure - support posts poured with concrete min. B20 in the holes made in the ground (size of the foundation depends on the ground conditions)
- W-H4S2 structure - on request, a screw screwed into the ground for fixing of the support posts

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met.

The warranty can be extended.

Detail A

- BUF... / PUF
- SAM8x...
- NKZM8E
- LKTT45H70MC
- CWC100H50/...MC
- SGKFM10x20
- BDFCH120/4,4MC

The figure shows an example of the arrangement of the concentration points of the structure -

Labels: CMP41H41/1,5MC, BDFCH120/4,4MC, CT70H50/3MC, 820, 980, 30°, Ground, 2020, 2500, 1970, 2430, CMP41H41/3,0MC, CMP41H41/3,5MC, LCPT11MC, CWT70H50/4,4MC

Component list for W-H4G2-30°

CODE	40 panels (~1700/1000 mm) pcs
CT70H50/3MC	6
CWT70H50/4,4MC	6
BDFCH120/4,4MC	6
CMP41H41/1,5MC	6
CMP41H41/3MC	2
CMP41H41/3,5MC	2
LCPT11MC	6
CWC100H50/6,6MC	10
CWC100H50/4,4MC	5
LKTT45H70MC	10
SGKFM10x20	140
BUF...	40
PUF	60
SAM8x...E	100
NKZM8E	100

Detailed information on the products can be found on pages 47-75



Mounting structure - for the installation of bifacial photovoltaic panels
 - freestanding
System: W-H4G2-BI-30° (optionally 25°)



Structure - description:

Complete support system for fixing bifacial panels that use the sunlight reflected from the ground.

Technical description:

Materials of the support system:

MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground.

A- Aluminium

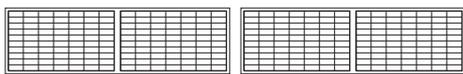
E- Stainless steel

F- Steel in zinc flake coating

Overview structure.

Arrangement of the modules:

· horizontal - H



Ground conditions:

· soil with good/high load capacity

Construction assembly variants:

- W-H4G2-BI structure - rammed into the ground (anchorage depth depending on ground conditions)
- W-H4K2-BI structure - support posts anchored to the concrete foundation
- W-H4B2-BI structure - support posts poured with concrete min. B20 in the holes made in the ground (size of the foundation depends on the ground conditions)
- W-H4S2-BI structure - on request, a screw screwed into the ground for fixing of the support posts

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met.

The warranty can be extended.

By using supporting structure - only where the panel frames are and thanks to the reduction of concentrations below the level of the lower row of panels, it is possible to take full advantage of the efficiency of bifacial modules.



Detailed information on the products can be found on pages 47-75



Mounting structure - for the installation of photovoltaic panels

- freestanding

System: **W-H5G2-30°** (optionally 25°)



Structure - description:

Complete support system for fixing five rows of panels in a horizontal arrangement

Technical description:

Materials of the support system:

MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

Structure - tested for strength

Ground conditions:

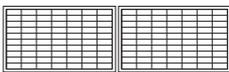
- soil with good/high load capacity

Construction assembly variants:

- W-H5G2 structure - rammed into the ground (anchorage depth depends on ground conditions)
- W-H5K2 structure - support posts anchored to the concrete foundation
- W-H5B2 structure - support posts poured with concrete min. B20 in the holes made in the ground (size of the foundation depends on the ground conditions)
- W-H5S2 structure - on request, a screw screwed into the ground for fixing of the support posts

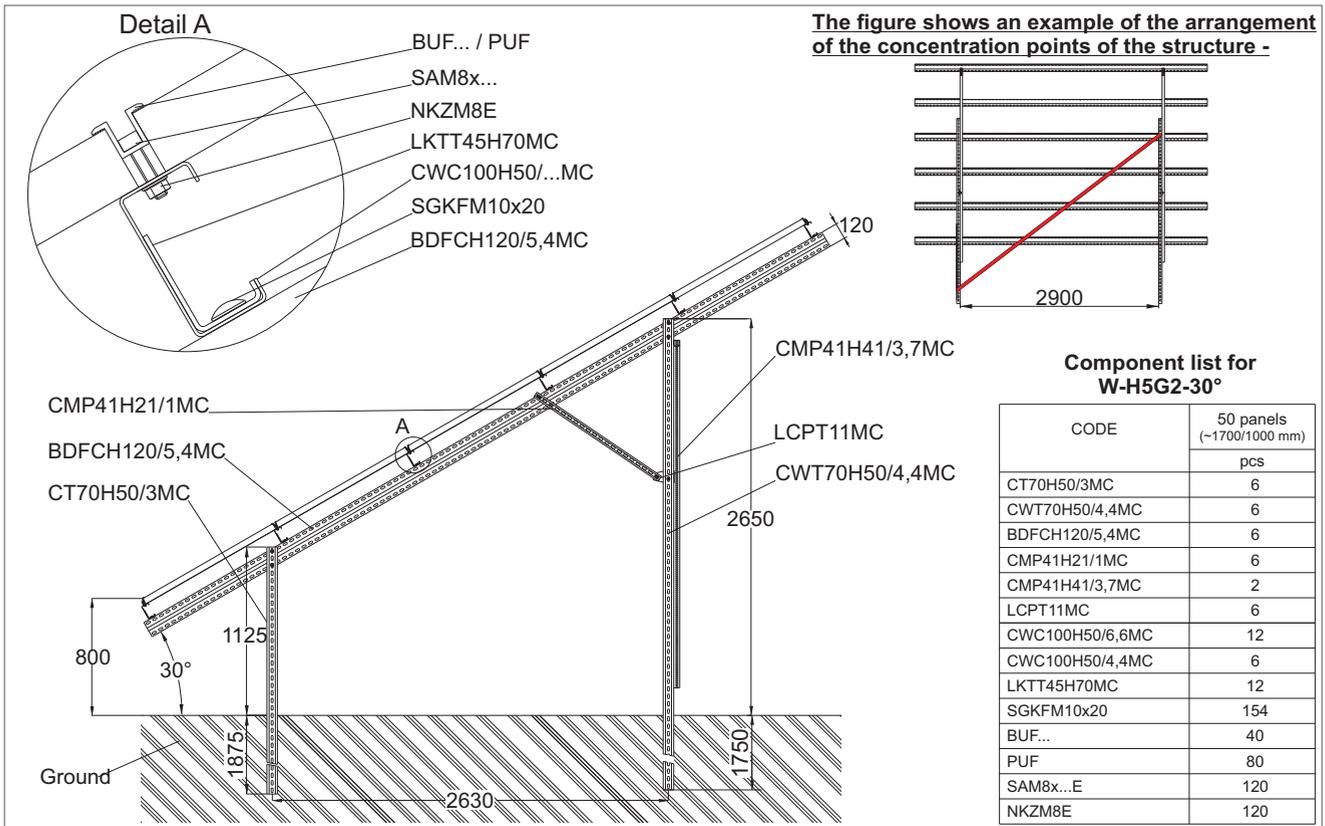
Arrangement of the modules:

- horizontal - H



Warranty

BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met. The warranty can be extended.



Detailed information on the products can be found on pages 47-75



Mounting structure - for the installation of photovoltaic panels

- freestanding

System: **W-H6G2-30°** (optionally 25°)



Structure - description:

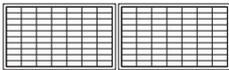
Complete support system for fixing six rows of panels in a horizontal arrangement

Technical description:

Materials of the support system:
MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground.
A- Aluminium
E- Stainless steel
F- Steel in zinc flake coating
 Structure - tested for strength

Arrangement of the modules:

· horizontal - H



Ground conditions:

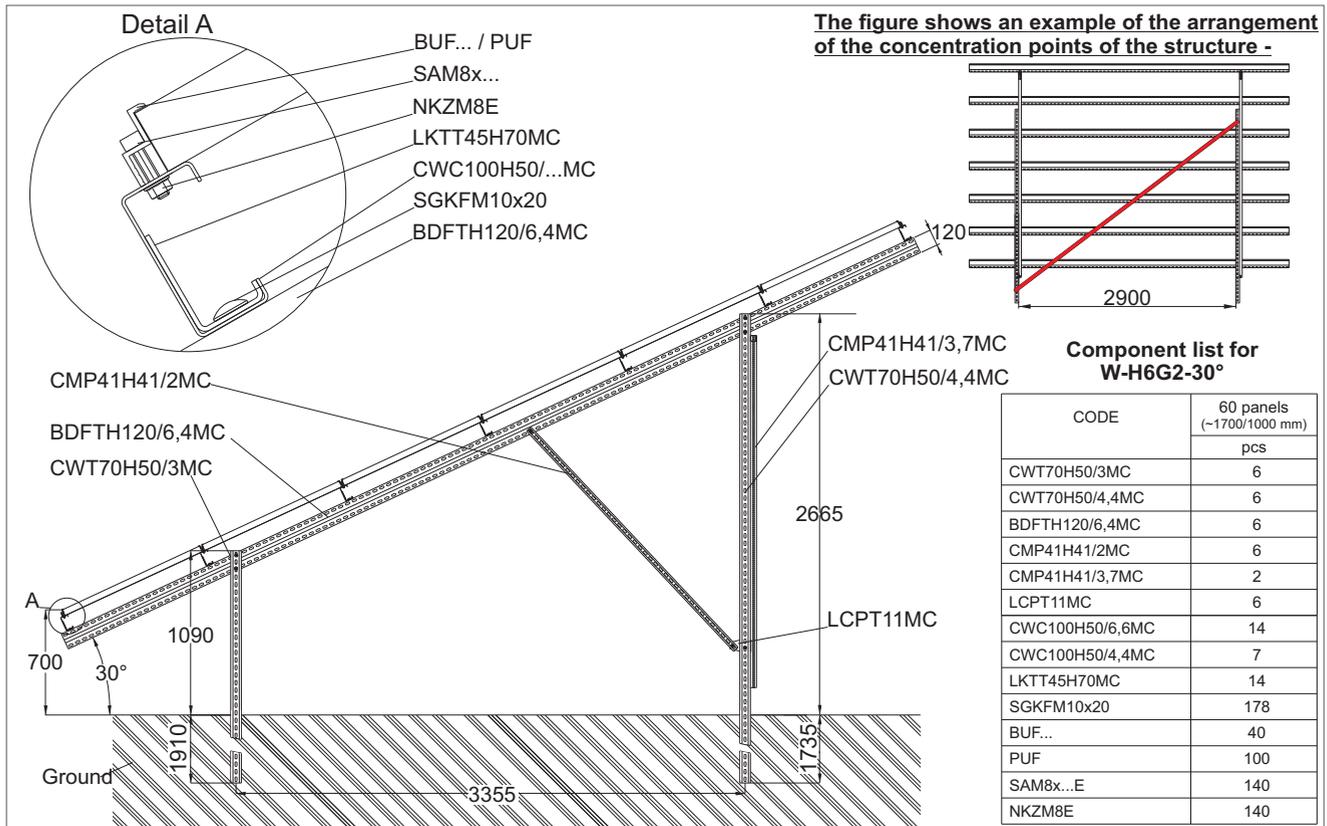
· soil with good/high load capacity

Construction assembly variants:

- W-H6G2 structure - rammed into the ground (anchorage depth depends on ground conditions)
- W-H6K2 structure - support posts anchored to the concrete foundation
- W-H6B2 structure - support posts poured with concrete min. B20 in the holes made in the ground (size of the foundation depends on the ground conditions)
- W-H6S2 structure - on request, a screw screwed into the ground for fixing of the support posts

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met. The warranty can be extended.



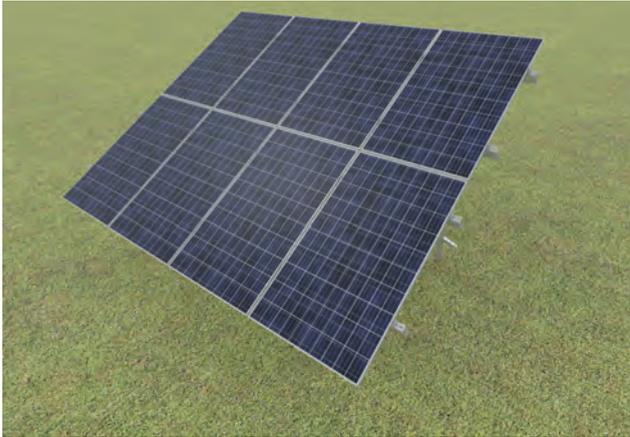
Detailed information on the products can be found on pages 47-75



Mounting structure - for the installation of photovoltaic panels

- freestanding

System: **W-V2G2-30°** (optionally 25°)



Structure - description:

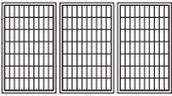
Complete support system for fixing two rows of panels in a vertical arrangement

Technical description:

Materials of the support system:
MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground.
A- Aluminium
E- Stainless steel
F- Steel in zinc flake coating
 Structure - tested for strength

Arrangement of the modules:

· vertical - V



Ground conditions:

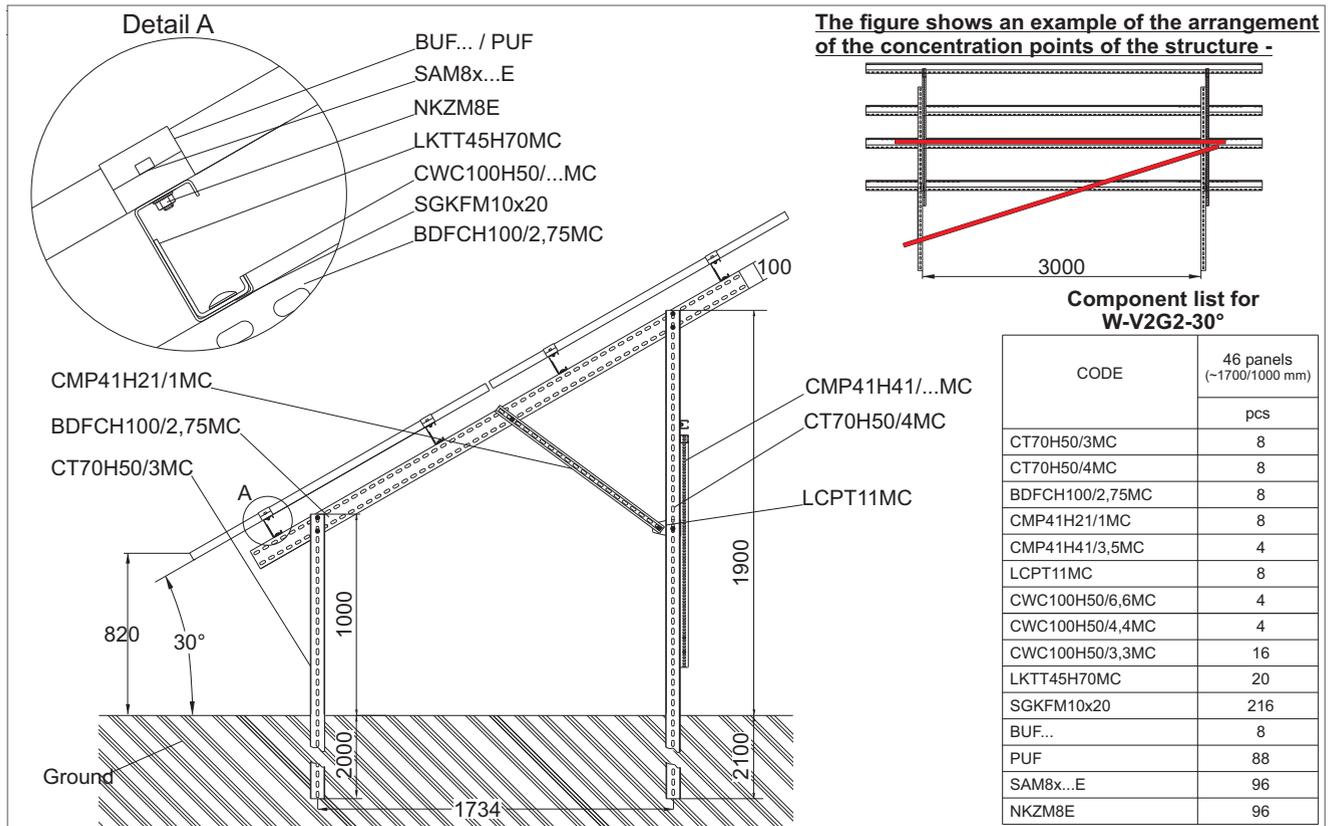
· soil with good/high load capacity

Construction assembly variants:

- W-V2G2 structure - rammed into the ground (anchorage depth depends on ground conditions)
- W-V2K2 structure - support posts anchored to the concrete foundation
- W-V2B2 structure - support posts poured with concrete min. B20 in the holes made in the ground (size of the foundation depends on the ground conditions)
- W-V2S2 structure - on request, a screw screwed into the ground for fixing of the support post

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met. The warranty can be extended.



Detailed information on the products can be found on pages 47-75



Mounting structure - for the installation of photovoltaic panels

- freestanding

System: **W-V3G2-30°** (optionally 25°)



Structure - description:

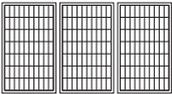
Complete support system for fixing three rows of panels in a vertical arrangement

Technical description:

Materials of the support system:
MC- constructional steel in grades S250GD and S350GD in Magnelis® coating, ZM430 for support posts, ZM310 for assembled parts above ground.
A- Aluminium
E- Stainless steel
F- Steel in zinc flake coating
 Structure - tested for strength

Arrangement of the modules:

- vertical - V



Ground conditions:

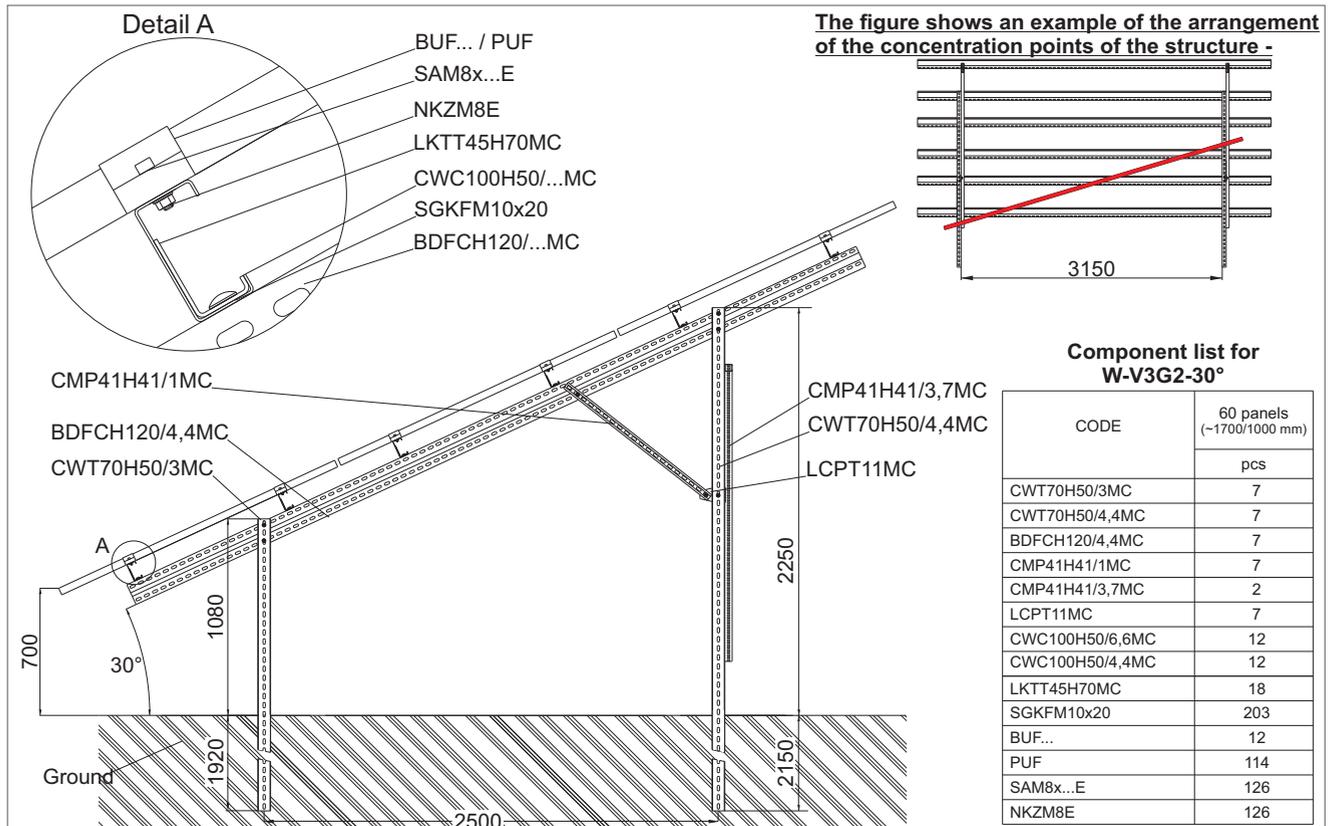
- soil with good/high load capacity

Construction assembly variants:

- W-V3G2 structure - rammed into the ground (anchorage depth depends on ground conditions)
- W-V3K2 structure - support posts anchored to the concrete foundation
- W-V3B2 structure - support posts poured with concrete min. B20 in the holes made in the ground (size of the foundation depends on the ground conditions)
- W-V3S2 structure - on request, a screw screwed into the ground for fixing of the support post

Warranty

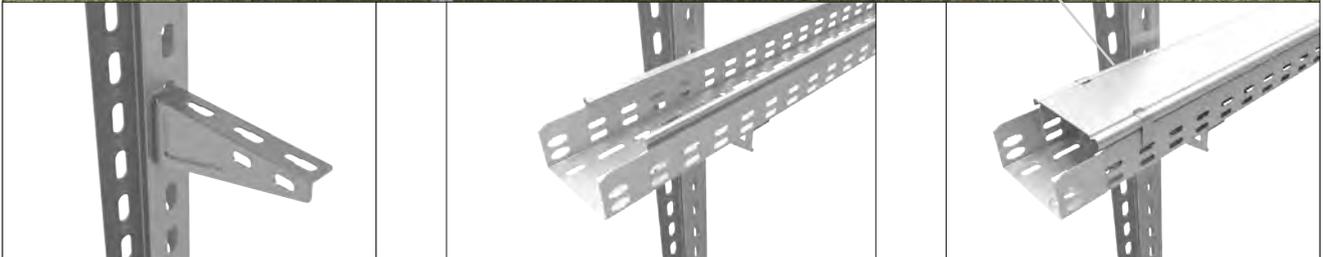
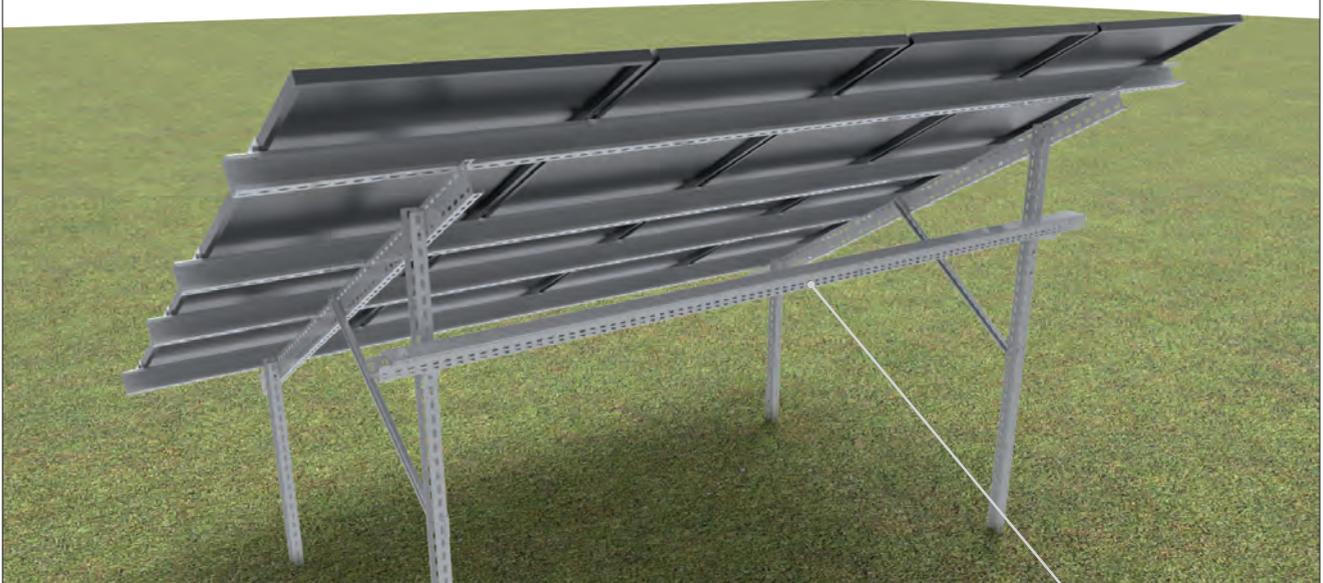
BAKS provides a 10 year warranty period for the components included in the support structure - only if all conditions of the manufacturer's warranty are met. The warranty can be extended.



Detailed information on the products can be found on pages 47-75

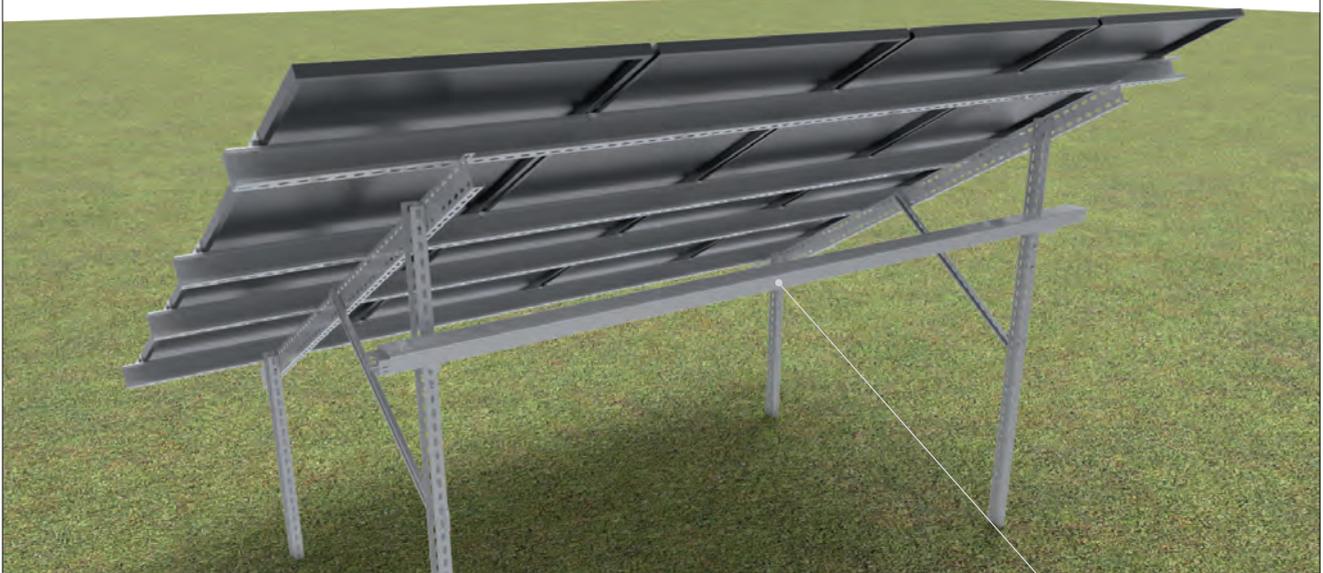
BAKS freestanding structures are adapted for mounting BAKS brackets and cable trays. The brackets are fixed to the support posts using lock screws, so they guarantee greater strength and are dedicated to structures with increased support spacing, and in case of installation in which high power inverters are used. BAKS cable trays provide excellent heat dissipation and are resistant to direct and diffuse UV radiation. They allow for quick installation of cables. They are equipped with covers which protect the cables from damage by forest animals and rodents. BAKS products have an ITB certificate confirming electrical continuity of the circuit, which guarantees no storage of electric charges in an earthed construction.

Electrical installation in a perforated KG... cable tray



Cable tray support - WWV... bracket screwed to the channel (support posts)

Electrical installation in an unperforated KB... cable tray



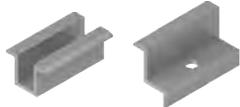
Mounting structures for the installation of photovoltaic panels on sloping roofs



Structure systems for sloping roofs for different types of roof plating:

- metal tiles sheets or corrugated metal sheets, System: **DS-V1N, DS-H1N**
- sheets metal seam plates, System: **DS-V2N, DS-H2N**
- bituminous tiles, System: **DS-V3N, DS-H3N**
- ceramic tiles, System: **DS-V4N, DS-H4N**
- scale-shaped tiles, System: **DS-V5N, DS-H5N**
- trapezoidal metal sheets, System: **DS-V6aN, DS-H6aN, DS-V6bN, DS-H6bN, DS-V6cN, DS-H6cN**

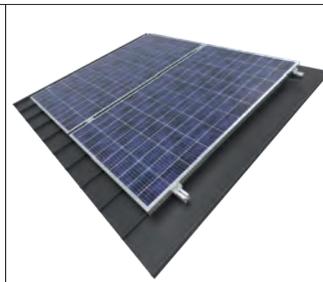
Examples of system components:

 <p>Aluminum Profile PAL40H40</p>	 <p>Aluminum Mounting Rail SMA40/033</p>	 <p>Aluminum Mounting Rail SM400</p>	 <p>Middle and Side Holders PUF and BUF...</p>
 <p>Adjustable Roof Fixing DUR40E</p>	 <p>Roof Fixing DUF60E</p>	 <p>Roof Fixing DUF75E</p>	 <p>Holder for Seam sheets Roofing UBZRE...</p>

Advantages of the structures for mounting photovoltaic panels on sloping roofs

- variable adjustment and longitudinal profile perforation allows for trouble-free and quick installation of the structure even in case of unevenness on the roof
- specially profiled holders provide a stable and strong connection to the roof structure or plating
- all structure elements made of stainless steel are subjected to abrasive treatment, which guarantees an aesthetic appearance
- the structure elements are ready for use after taking them out of the packaging and do not require additional completion
- products made in Poland

Systems:

 <p>DS-V1N</p>	 <p>DS-V2N</p>	 <p>DS-V3N</p>	 <p>DS-V4N</p>
 <p>DS-V5N</p>	 <p>DS-V6aN</p>	 <p>DS-V6bN</p>	



Mounting structure for the installation of photovoltaic panels
 on sloping roofs covered with metal tiles sheets or corrugated metal sheets
System: DS-V1N



Structure description

Complete support system for any number of PV panels in a vertical arrangement on a sloping roof covered with metal tiles sheets or corrugated metal sheets

Technical description:

Materials of the support system:

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

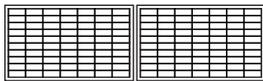
Structure tested for strength.

Installation of double-threaded screws for roof rafters.

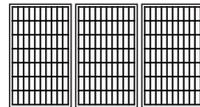
Recommended spacing between screws 0,8 - 1 m.

Arrangement of the modules:

· horizontal - H



· vertical - V



Advantages:

- wide range of height adjustment of aluminium profiles in relation to the roof thanks to the long, threaded part of the screw
- additional adjustment of the aluminium profiles thanks to the longitudinal hole in the AD...E adapter
- the elements are made of stainless steel and aluminium, which guarantees very high corrosion resistance
- high stability of the structure thanks to the aluminium profile with a specially profiled section
- double-threaded screws fitted with rubber to ensure basic sealing of the hole in the roof tiles

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A

Labels in the drawing: BUF... / PUF, SAM8x...E, NKWSM8A, PAL40H40/..., LPAN40, SSZ10x20E + NKZM10E, AD11E, SWDM10x250E, Rafter.

Component list for (DS-H1N) and (DS-V1N)

CODE	4 panels (~1700/1000 mm) (DS-H1N)	4 panels (~1700/1000 mm) (DS-V1N)
	pcs	pcs
PAL40H40/2,2	2	4
PAL40H40/3,3	3	-
LPAN40	8	4
SWDM10x250E	18	12
AD11E	18	12
SSZ10x20E	18	12
NKZM10E	18	12
BUF...	4	4
PUF	6	6
SAM8x...E	10	10
NKWSM8A	10	10

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on sloping roofs covered with sheets metal seam plates
System: DS-V2N



Structure description

Complete support system for any number of PV panels in a vertical arrangement on a sloping roof covered with sheets metal seam plates.

Technical description:

Materials of the support system:

A- Aluminium

E- Stainless steel

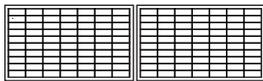
F- Steel in zinc flake coating

Structure tested for strength.

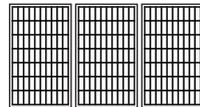
The holders should be mounted to the first three seams, counted from the edge of each row of panels and then every second seam.

Arrangement of the modules:

· horizontal - H



· vertical - V



Advantages:

- installation of the structure to the seam without interfering with the structure of the roof plating
- quick installation of the holders without the need to locate the rafters
- different versions of holders for sheets metal to ensure stable installation with most sheets metal seam plates systems
- the elements are made of stainless steel and aluminium, which guarantees very high corrosion resistance
- high stability of the structure thanks to the aluminium profile with a specially profiled section

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A

Labels in the drawing: BUF... / PUF, SAM8x...E, NKWSM8A, PAL40H40/..., LPAN40, SSZ10x20E + NKZM10E, UBZR..., Rafter.

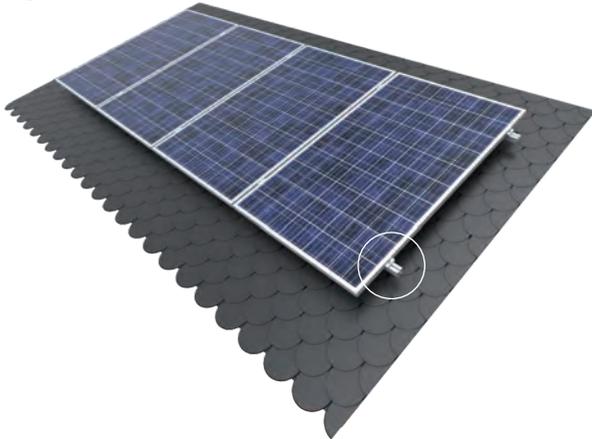
Component list for (DS-H2N) and (DS-V2N)

CODE	4 panels (~1700/1000 mm) (DS-H2N)	4 panels (~1700/1000 mm) (DS-V2N)
	pcs	pcs
PAL40H40/2,2	2	4
PAL40H40/3,3	3	-
LPAN40	8	4
UBZR...	16	12
SSZ10x20E	16	12
NKZM10E	16	12
BUF...	4	4
PUF	6	6
SAM8x...E	10	10
NKWSM8A	10	10

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on sloping roofs covered with bituminous tiles
System: DS-V3N



Structure description

Complete support system for any number of PV panels in a vertical arrangement on a sloping roof covered with bituminous tiles.

Technical description:

Materials of the support system:

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

Structure tested for strength.

Installation of screws for roof rafters.

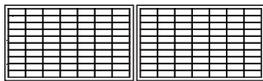
Recommended spacing between holders 0.8 - 1 m.

Advantages:

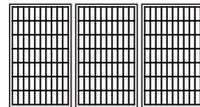
- the shape of the holders ensures high stability of the structure
- the elements are made of stainless steel and aluminium, which guarantees very high corrosion resistance
- high stability of the structure thanks to the aluminium profile with a specially profiled section

Arrangement of the modules:

· horizontal - H



· vertical - V



Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met

Detail A

Component list for (DS-H3N) and (DS-V3N)

CODE	4 panels (~1700/1000 mm) (DS-H3N)	4 panels (~1700/1000 mm) (DS-V3N)
	pcs	pcs
PAL40H40/2,2	2	4
PAL40H40/3,3	3	0
LPAN40	8	4
DUF60E	18	12
DDW6x60E	36	24
SSZ10x20E	18	12
NKZM10E	18	12
BUF...	4	4
PUF	6	6
SAM8x...E	10	10
NKWSM8A	10	10

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on sloping roofs covered with ceramic tiles
System: DS-V4N



Structure description

Complete support system for any number of PV panels in a vertical arrangement on a sloping roof covered with bituminous tiles.

Technical description:

Materials of the support system:

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

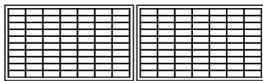
Structure tested for strength.

Installation of holders with screws for roof rafters.

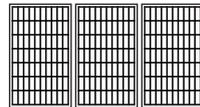
Recommended spacing between holders 0.8 - 1 m.

Arrangement of the modules:

· horizontal - H



· vertical - V



Advantages:

- wide adjustment range of the holders thanks to longitudinal holes in each of the 3 elements of the holder
- dense holes in the part directly adjacent to the roof truss ensure that the holder can be adjusted and correctly positioned in relation to the tiles so that the hook is in the middle of the tiles mounted below
- elongated middle arm of the holder allows the hooks to be mounted on the majority of ceramic and concrete roof tiles available on the market
- the elements are made of stainless steel and aluminium, which guarantees very high corrosion resistance
- high stability of the structure thanks to the aluminium profile with a specially profiled section

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A

Labels in the drawing: SAM8x...E, NKWSM8A, PAL40H40..., LPAN40, SSZ10x20E + NKZM10E, DUR40E, SGKM10x20E (w kpl. z DUR40E), BUF... / PUF, DDW8x100, Rafter, A.

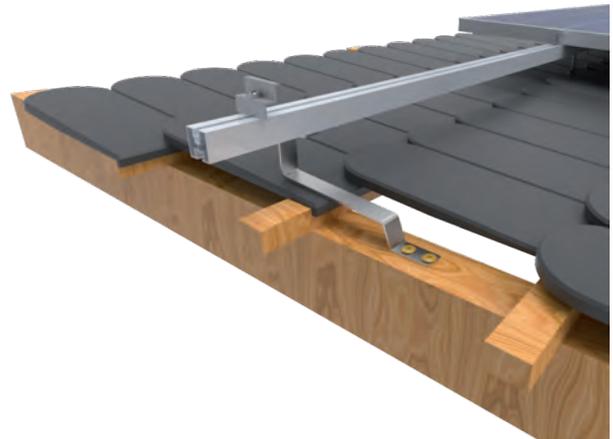
Component list for (DS-H4N) and (DS-V4N)

CODE	4 panels (~1700/1000 mm) DS-H4N	4 panels (~1700/1000 mm) DS-V4N
	pcs	pcs
PAL40H40/2,2	2	4
PAL40H40/3,3	3	-
LPAN40	8	4
DUR40E	18	12
DDW8x100	36	24
SSZ10x20E	18	12
NKZM10E	18	12
BUF...	4	4
PUF	6	6
SAM8x...E	10	10
NKWSM8A	10	10

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on sloping roofs covered with scale-shaped tiles
System: DS-V5N



Structure description

Complete support system for any number of PV panels in a vertical arrangement on a sloping roof covered with scale-shaped tiles.

Technical description:

Materials of the support system:

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

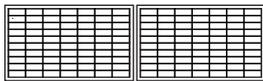
Structure tested for strength.

Installation of holders with screws for roof rafters.

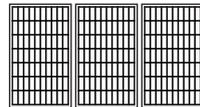
Recommended spacing between holders 0.8 - 1 m.

Arrangement of the modules:

· horizontal - H



· vertical - V



Advantages:

- elongated arm of the holder allows the hooks to be mounted on the majority of ceramic and concrete roof tiles available on the market
- the elements are made of stainless steel and aluminium, which guarantees very high corrosion resistance
- high stability of the structure thanks to the aluminium profile with a specially profiled section.

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A

Labels in the drawing: BUF... / PUF, SAM8x...E, NKWSM8A, PAL40H40/..., LPAN40, SSZ10x20E, NKZM10E, DUF75E, Rafter, DDW8x100, DUF75E.

Component list for (DS-H5N) and (DS-V5N)

CODE	4 panels (~1700/1000 mm) (DS-H5N)	4 panels (~1700/1000 mm) (DS-V5N)
	pcs	pcs
PAL40H40/2,2	2	4
PAL40H40/3,3	3	-
LPAN40	8	4
DUF75E	18	12
DDW8x100	36	24
SSZ10x20E	18	12
NKZM10E	18	12
BUF...	4	4
PUF	6	6
SAM8x...E	10	10
NKWSM8A	10	10

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on sloping roofs covered with trapezoidal metal sheets - high rail
System: DS-V6aN



Structure description

Complete support system for any number of PV panels in a vertical arrangement on a sloping roof covered with trapezoidal metal sheets.

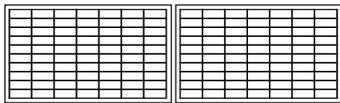
Technical description:

Materials of the support system:

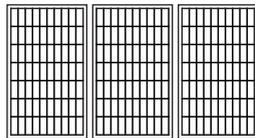
- A- Aluminium
 - E- Stainless steel
 - F- Steel in zinc flake coating
- Structure tested for strength.

Arrangement of the modules:

· horizontal - H



· vertical - V



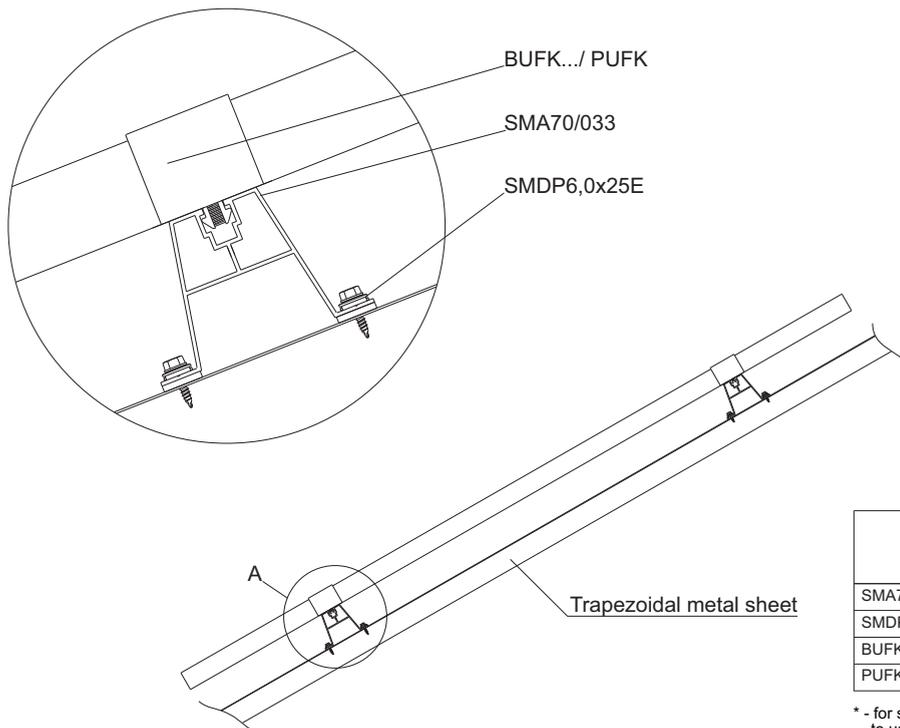
Advantages:

- quick installation of the structure using threaded screws directly to the trapezoidal metal sheets without the need to locate the rafters
- very economical design with a small number of components
- the elements are made of stainless steel and aluminium, which guarantees very high corrosion resistance
- high stability of the structure thanks to the aluminium profile with a specially profiled section

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A



Component list for (DS-H6aN) and (DS-V6aN)

CODE	4 panels (~1700/1000 mm) (DS-H6aN)	4 panels (~1700/1000 mm) (DS-V6aN)
	pcs	pcs
SMA70/033**	10	10
SMDP6,0x25E*	40	40
BUFK...	4	4
PUFK	6	6

* - for sheets thickness less than 0,7 mm it is recommended to use aluminium rivets NITZP5,2x17,5A
 ** - a 40 mm mounting rail SMA40/033 is also available



Mounting structure for the installation of photovoltaic panels on sloping roofs covered with trapezoidal metal sheets - low rail
System: DS-V6bN



Structure description

Complete support system for any number of PV panels in a vertical arrangement on a sloping roof covered with trapezoidal metal sheets

Technical description:

Materials of the support system:

- A- Aluminium
 - E- Stainless steel
 - F- Steel in zinc flake coating
- Structure tested for strength.

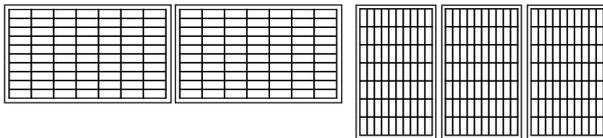
Advantages:

- quick installation of the structure using threaded screws directly to the trapezoidal metal sheets without the need to locate the rafters
- very economical design with a small number of components
- the elements are made of stainless steel and aluminium, which guarantees very high corrosion resistance
- high stability of the structure thanks to the aluminium profile with a specially profiled section

Arrangement of the modules:

• horizontal - H

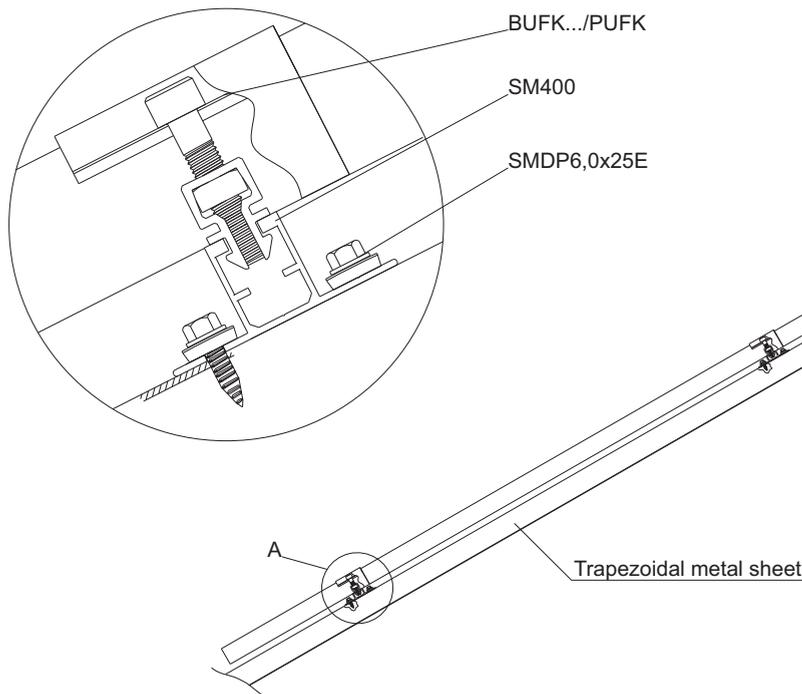
• vertical - V



Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A



Component list for (DS-H6bN) and (DS-V6bN)

CODE	4 panels (~1700/1000 mm) (DS-H6bN)	4 panels (~1700/1000 mm) (DS-V6bN)
	pcs	pcs
SM400	10	10
BUFK...	4	4
PUFK	6	6
SMDP6,0x25E*	40	40
* ALTERNATIVELY		
NITZP5,2x17,5A	40	40

* - for sheets thickness less than 0,7 mm it is recommended to use aluminium rivets NITZP5,2x17,5A
 - mounting rails SM400 are not equipped with EPDM rubber... For installation EPDMW2x40 rubber is recommended.

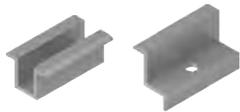
Mounting structures for the installation of photovoltaic panels on flat roofs, building elevations and balcony railings



Structure systems for flat roofs, building elevations and balcony railings:

- flat roof, System: **DP-DNHBE, DP-DNHKE**
- flat roof, System: **DP-DNHBE-WZ, DP-DNHKE-WZ**
- flat roof, System: **DP-DTVKN, DP-DTVBN**
- flat roof, System: **DP-DTAVKN, DP-DTAVBN**
- building elevation, System: **E-VKRN, E-VKTN, E-HKRN**
- balcony railing, System: **B-VPN, B-HPN**

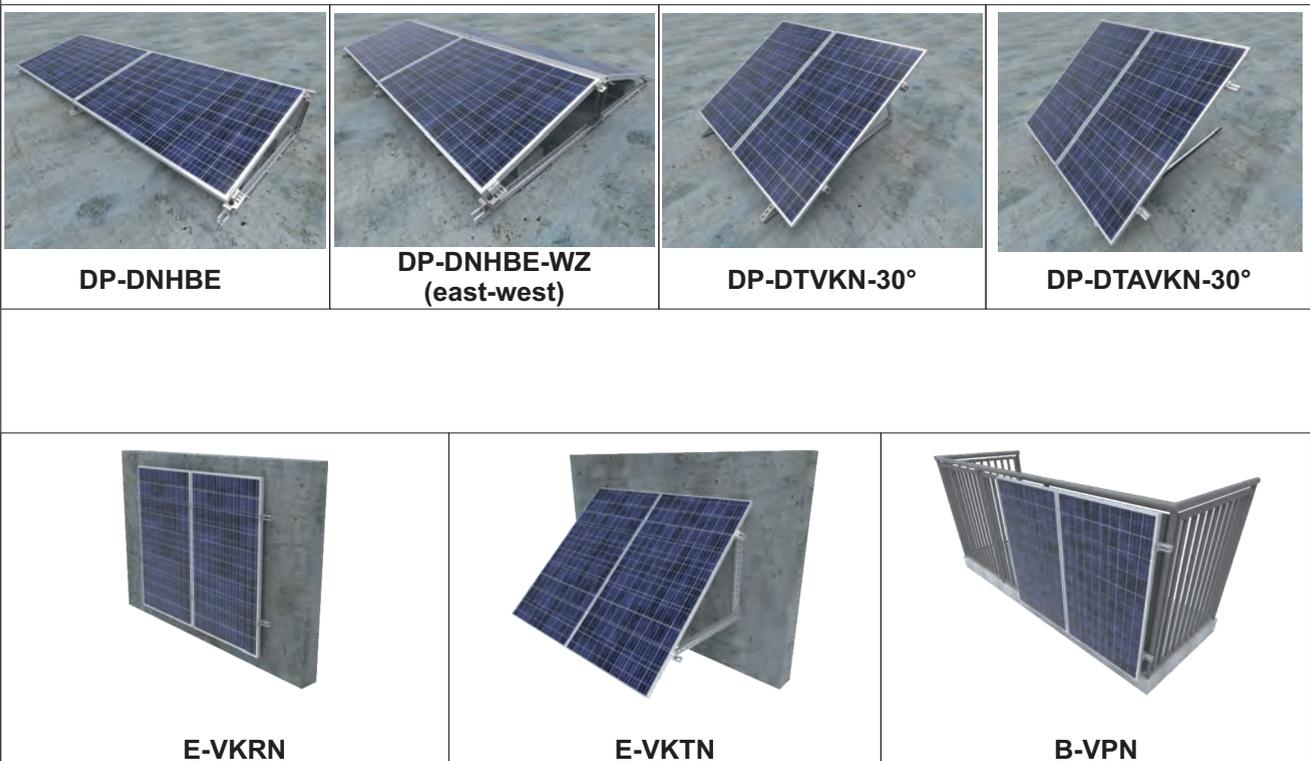
Examples of system components:

 <p>Angle Profile KT...A</p>	 <p>Panel's Bottom Holder UPDCNMC</p>	 <p>Panel's Top Holder UPGC...NMC</p>	 <p>Middle and Side Holders PUF and BUF...</p>
 <p>Support Channel CMP41H41...MC</p>	 <p>Sleeper Padding PDOP300MC</p>	 <p>Wind Shield OWP...NMC</p>	 <p>Sleeper Padding SBR...</p>

Advantages of the structures for mounting photovoltaic panels on flat roofs, building elevations and balcony railings

- structures available in steel in Magnelis® coating and aluminium
- universal structures for flat roofs that can be fixed directly to the roof plating or used as ballast structures
- variable adjustment and longitudinal profile perforation allows for trouble-free and quick installation of the structure even in case of unevenness on the roof
- perforation in the wind shields allows for easy and quick installation even after the photovoltaic panels have been installed
- specially designed profile of the wind shields ensures stable adhesion to the structure, and after using additional pressure plates, even strong wind does not cause resonance
- the dimensions of the wind shields are adapted to various types of panels, thanks to which their installation does not require drilling
- triangular structures made of channels allow the panels to be mounted to steel profiles in the Magnelis® coating and aluminium profiles
- products made in Poland!

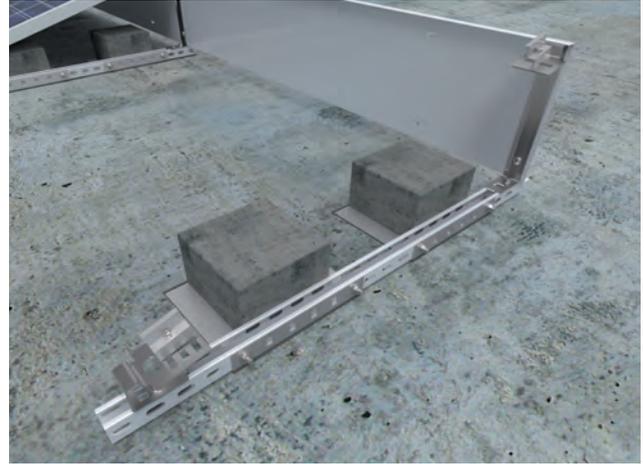
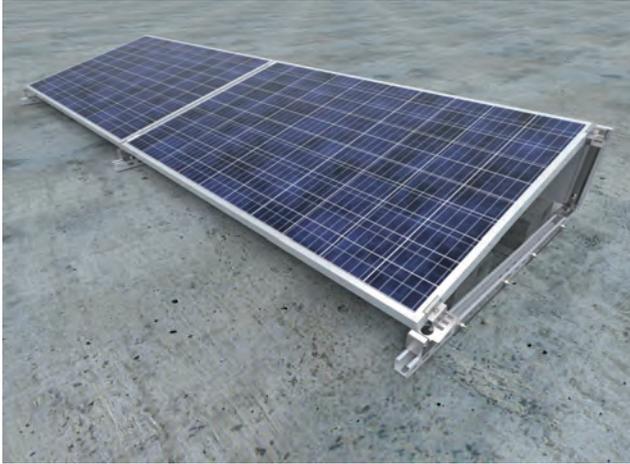
Systems:





Mounting structure for the installation of photovoltaic panels on flat roofs

System: **DP-DNHBE**



Structure description

Complete support system for fixing the panels horizontally at angles of 10°, 15° and 20° on a flat roof. The DP-DNHBE system enables the panels to be installed without disturbing the roof plating thanks to the ballasting of the structure with concrete blocks (use blocks made of B20 concrete, and protect them from soaking in rainwater).

Technical description:

Materials of the support system:

MC- constructional steel in Magnelis® coating

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

Structure tested for strength.

Advantages:

- quick installation and low price,
- strength tested structure
- Magnelis®-coated sheet metal structure guarantees very high corrosion resistance
- fixing the panel holders to the main profile with one screw and rhomboid nut
- variable adjustment of the spacing of holders in the main profile
- longitudinal holes for mounting photovoltaic panels with possibility of adjustment when mounting panel holders
- bottom holder for setting three angles: 10°, 15° and 20°
- possibility of mounting panels with a length of ~ 2 m

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Structure assembly variants:

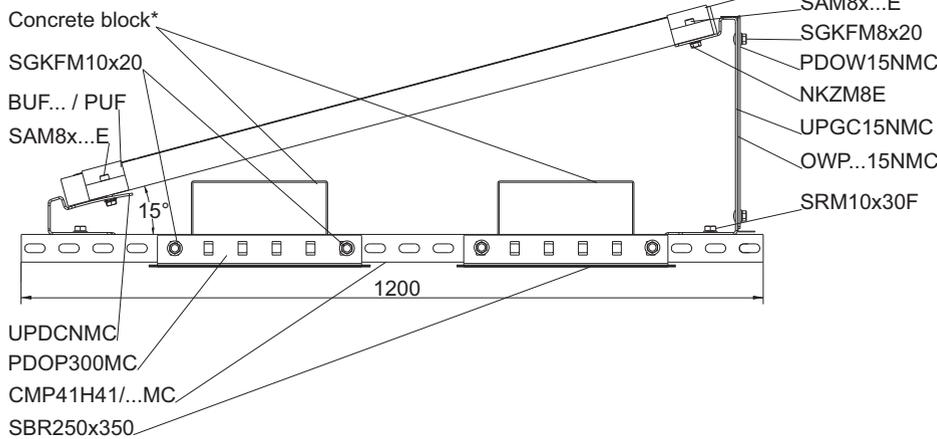
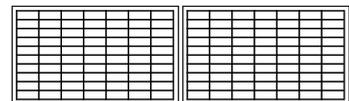
- anchored to the roof
- ballast (after using sleeper paddings and ballast bases)

The table below allows you to select a set of holders (bottom + top) in order to obtain a structure with an appropriate angle of inclination of the panels.

inclination angle of the panels	Panel's Bottom Holder	Panel's Top Holder
10°	UPDCNMC	UPGC10NMC
15°	UPDCNMC	UPGC15NMC
20°	UPDCNMC	UPGC20NMC

Arrangement of the modules:

- horizontal - H



Component list for (DP-DNHBE)

CODE	4 panels (~1700/1000 mm)	
	pcs	
CMP41H41/1,2MC	5	
UPDCNMC	5	
UPGC15NMC	5	
SRM10x30F	10	
PDOP300MC	10	
SGKFM10x20	20	
SBR250x350	10	
SGKFM8x20	10	
OWP...15NMC	4	
PDOW15NMC	5	
BUF...	4	
PUF	6	
SAM8x...E	10	
NKZM8E	10	

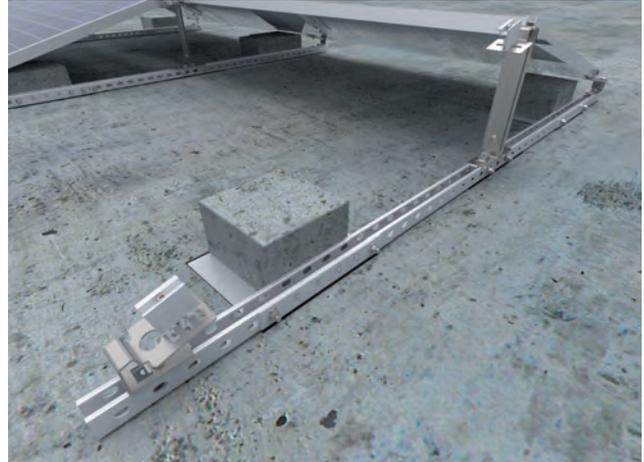
*To ballast the structure, use 75 kg ballast per panel for panels located at the edge of the roof, for the other panels 50 kg per panel (the given loads apply to installations in 1 and 3 wind zones up to 300 m above sea level).

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on flat roofs

System: **DP-DNHBE-WZ (east-west)**



Structure description

Complete support system for fixing the panels horizontally at angles of 10°, 15° and 20° on a flat roof. The DP-DNHBE (W-Z) system enables the panels to be installed without disturbing the roof plating thanks to the ballasting of the structure with concrete blocks (use blocks made of B20 concrete, and protect them from soaking in rainwater).

Technical description:

Materials of the support system:

MC- constructional steel in Magnelis® coating

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

Structure tested for strength.

Advantages:

- quick installation and low price,
- strength tested structure
- Magnelis®-coated sheet metal structure guarantees very high corrosion resistance
- fixing the panel holders to the main profile with one screw and rhomboid nut
- variable adjustment of the spacing of holders in the main profile
- longitudinal holes for mounting photovoltaic panels with possibility of adjustment when mounting panel holders
- bottom holder for setting three angles: 10°, 15° and 20°
- possibility of mounting panels with a length of ~ 2 m

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Structure assembly variants:

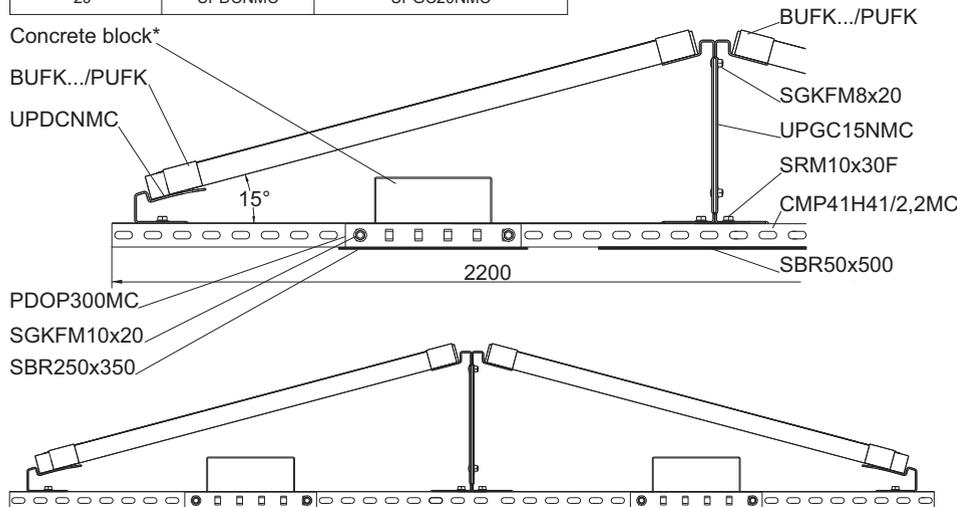
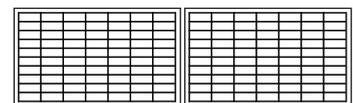
- anchored to the roof
- ballast (after using sleeper paddings and ballast bases)

The table below allows you to select a set of holders (bottom + top) in order to obtain a structure with an appropriate angle of inclination of the panels.

inclination angle of the panels	Panel's Bottom Holder	Panel's Top Holder
10°	UPDCNMC	UPGC10NMC
15°	UPDCNMC	UPGC15NMC
20°	UPDCNMC	UPGC20NMC

Arrangement of the modules:

- horizontal - H



Component list for (DP-DNHBE-WZ)

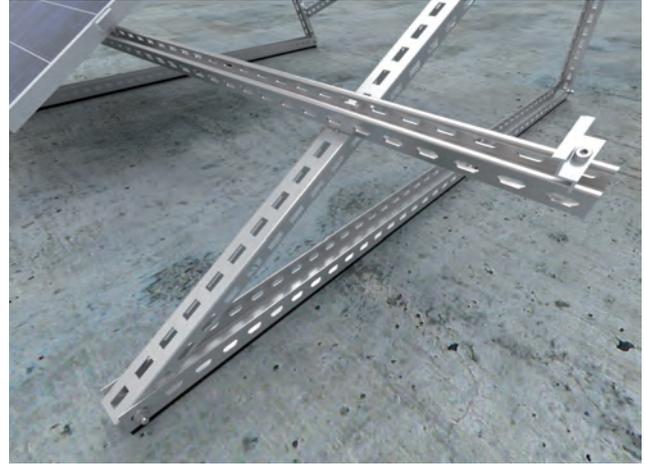
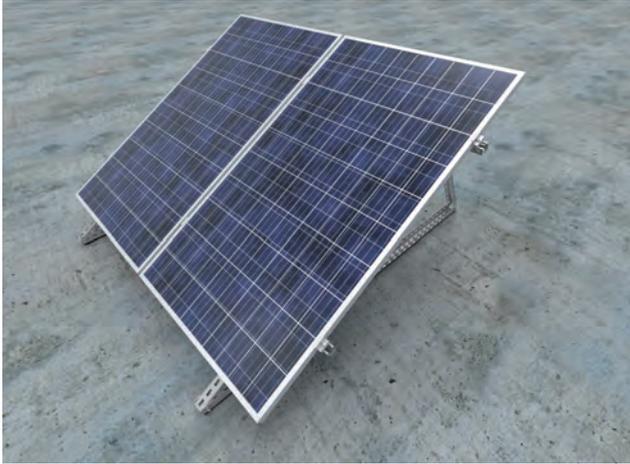
CODE	4 panels (~1700/1000 mm)	
	pcs	
CMP41H41/2,2MC	3	
UPDCNMC	6	
UPGC15NMC	6	
SRM10x30F	12	
PDOP300MC	6	
SGKFM10x20	12	
SBR250x350	6	
SBR50x500	3	
SGKFM8x20	6	
BUFK...	8	
PUFK	4	

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on flat roofs

System: **DP-DTVKN-30°**



Structure description

Complete support system for fixing the panels vertically at angles of 25°, 30° and 35° on a flat roof. Anchored structure.

Technical description:

Materials of the support system:

MC- constructional steel in Magnelis® coating

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

Structure tested for strength.

Structure assembly variants:

- anchored to the roof
- ballast (after using sleeper paddings and ballast bases)

Advantages:

- quick installation
- low price
- strength tested structure
- high stability of the structure
- Magnelis®-coated sheet metal structure guarantees very high corrosion resistance
- possibility of fixing the panels on aluminium and steel profiles in Magnelis® coating
- possibility of setting three angles: 25°, 30° and 35°
- possibility of mounting panels with a length of ~ 2 m

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A

Arrangement of the modules:
• vertical - V

Component list for (DP-DTVKN-30°)

CODE	4 panels (~1700/1000 mm)	
	pcs	
CMP41H41/2,2MC	4	
LC41H41MC	2	
CC50H35/1MC	3	
CC50H35/1,7MC	4	
CC55H50/2MC	3	
BUF...	4	
PUF	6	
SAM8x...E	10	
NRM8F	10	
SGKFM10x20	34	
SBR50x500	12	

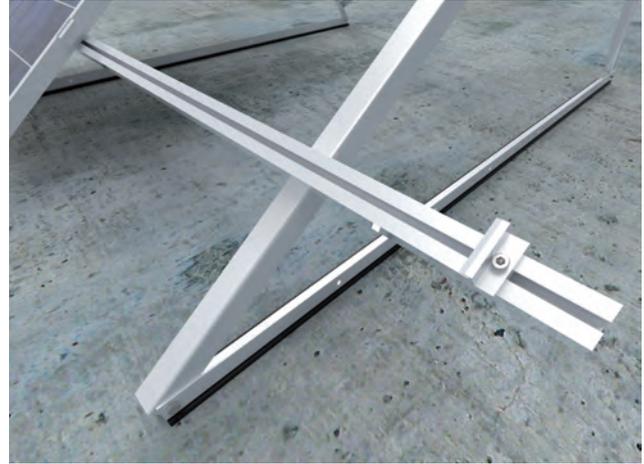
*For ballasting the structure, use a minimum of 195 kg of ballast per panel (depending on the wind zone)

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on flat roofs

System: **DP-DTAVKN-30°**



Structure description

Complete support system for fixing the panels vertically at angles of 25°, 30° and 35° on a flat roof. Anchored structure.

Technical description:

Materials of the support system:

MC- constructional steel in Magnelis® coating

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

Structure tested for strength.

Structure assembly variants:

- anchored to the roof
- ballast (after using sleeper paddings and ballast bases)

Advantages:

- quick installation
- low price
- strength tested structure
- high stability of the structure
- aluminium structure guarantees very high corrosion resistance and lowers the weight of the support structure
- possibility of setting three angles: 25°, 30° and 35°
- lightweight constructions, dedicated to roofs with low load capacity
- possibility of mounting panels with a length of ~ 2 m.

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A

Arrangement of the modules:
- vertical - V

Component list for (DP-DTAVKN-30°)

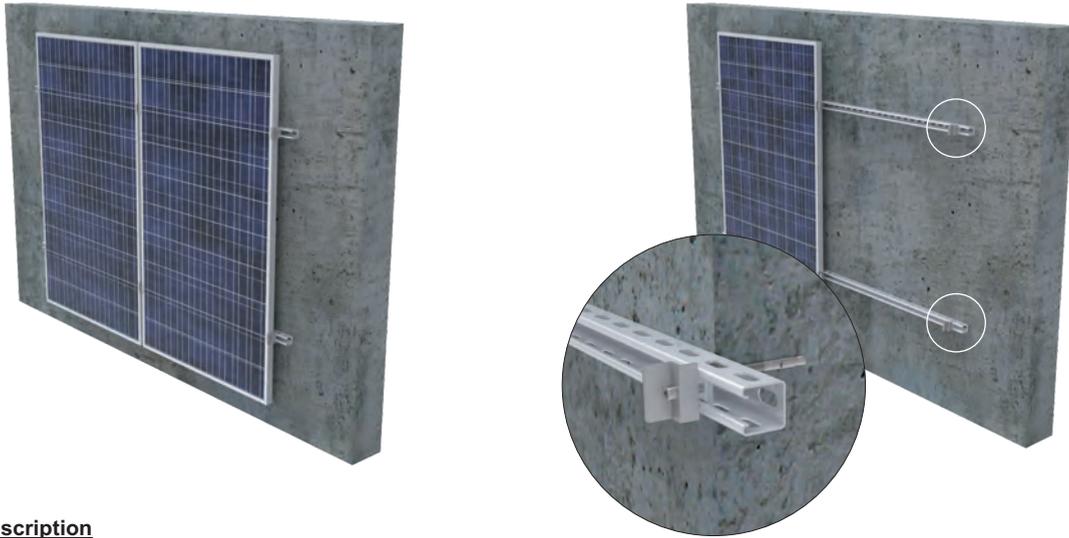
CODE	4 panels (~1700/1000 mm)
	pcs
PAL40H40/2,1	4
PLPAN40	4
KT1000A	5
KT1700A	5
KT2000A	5
KTST1700A	1
BUF...	4
PUF	6
SAM8x...E	10
NKWSM8A	10
SSZ10x20E	17
NKZM10E	17
SBR50x500	12

*For ballasting the structure, use a minimum of 195 kg of ballast per panel (depending on the wind zone)

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on walls
System: E-VKRN



Structure description

Support system for quick installation of PV panels to building elevations.

Technical description:

Materials of the support system:

- MC- constructional steel in Magnelis® coating
 - A- Aluminium
 - E- Stainless steel
 - F- Steel in zinc flake coating
- Structure tested for strength.

Advantages:

- quick installation
- low price
- high stability of the structure
- strength tested structure
- Magnelis®-coated sheet metal structure guarantees very high corrosion resistance

Structure assembly variants:

- Anchored with anchors for concrete
- Anchored with chemical anchors for concrete
- Anchored through with threaded rods (sandwich panel)

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

BUF... / PUF

SAM8x...E + NRM8F

CMP41H41/...MC

Anchor selected for the substrate material

A

Arrangement of the modules:

- horizontal - H
- vertical - V

Component list for (E-HKRN) and (E-VKRN)

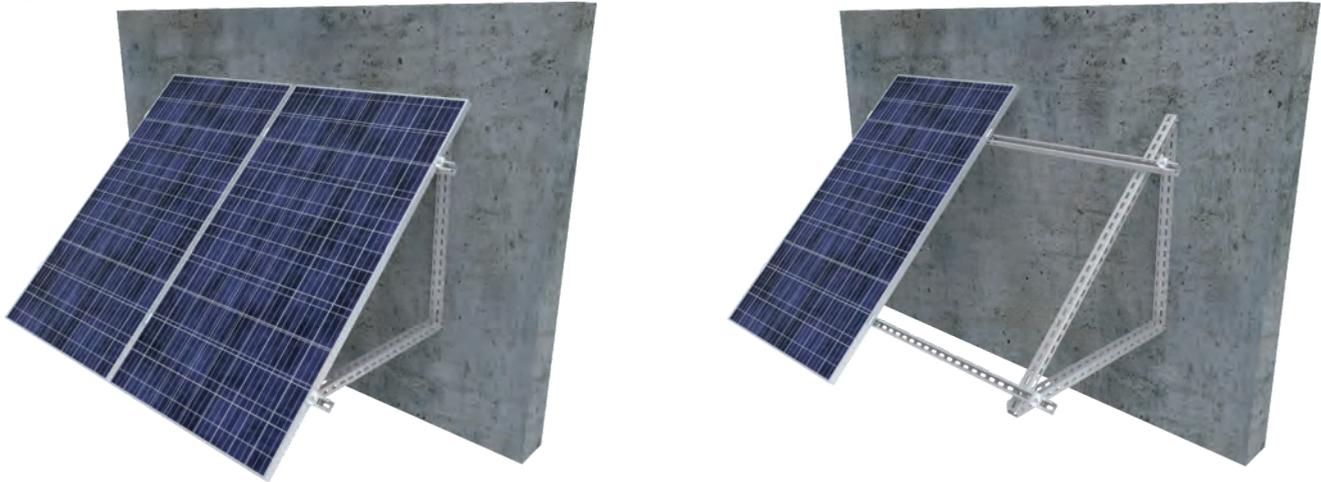
CODE	4 panels (~1700/1000 mm) (E-HKRN)	4 panels (~1700/1000 mm) (E-VKRN)
	pcs	pcs
CMP41H41/3,0MC	2	-
CMP41H41/2,2MC	4	4
BUF...	4	4
PUF	6	6
SAM8x...E	10	10
NRM8F	10	10
*Anchor selected for the substrate material	8 *	8 *

* quantity depends on the substrate material

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on walls
System: E-VKTN



Structure description

Support system for quick installation of PV panels to building elevations.

Technical description:

Materials of the support system:

MC- constructional steel in Magnelis® coating

A- Aluminium

E- Stainless steel

F- Steel in zinc flake coating

Advantages:

- quick installation
- low price
- high stability of the structure
- adjustable inclination angle
- Magnelis®-coated sheet metal structure guarantees very high corrosion resistance

Structure assembly variants:

- Anchored with anchors for concrete
- Anchored with chemical anchors for concrete
- Anchored through with threaded rods (sandwich panel)

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Detail A

Anchor selected for the substrate material

BUF... / PUF

SAM8x...E + NRM8F

CMP41H41/2,2MC

CC50H35/...MC

CC55H50/...MC

α^{o*}

β^{o*}

γ^{o*}

A

Arrangement of the modules:

· vertical - V

Component list for (E-VKTN)

CODE	4 panels (~1700/1000 mm) (E-VKTN)
	pcs
CMP41H41/2,2MC	4
LC41H41MC	2
CC50H35/...MC	3
CC50H35/...MC	3
CC55H50/...MC	3
BUF...	4
PUF	6
SAM8x...E	10
NRM8F	10
SGKFM10x20	32
*Anchor selected for the substrate material	8

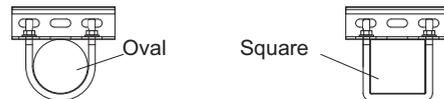
* quantity depends on the substrate material

*Adjustable inclination angle depending on the lighting conditions. Changing the inclination angle is connected with changing the length of profiles.

Detailed information on the products can be found on pages 47-75



Mounting structure for the installation of photovoltaic panels on balcony railings
System: B-VPN



Structure description

Support system for quick installation of PV panels to balcony railings.

Technical description:

Materials of the support system:
MC- constructional steel in Magnelis® coating or steel, hot-dip galv. to PN-EN ISO 1461:2011
A- Aluminium
E- Stainless steel
F- Steel in zinc flake coating
 Structure tested for strength.

Advantages:

- quick installation
- low price
- high stability of the structure
- strength tested structure
- Magnelis®-coated sheet metal structure guarantees very high corrosion resistance

Warranty

BAKS provides a 10 year warranty period for the components included in the support structure only if all conditions of the manufacturer's warranty are met.

Structure assembly variants:

- screwed to balcony railings of round of square section with u-bolts

Detail A

CMP41H41/...MC
CY...

SAM8...E + NRM8F
BUF... / PUF
NSM8E
PW8E

Arrangement of the modules:

- horizontal - H
- vertical - V

Component list for (B-HPN) and (B-VPN)

CODE	4 panels (~1700/1000 mm) (B-HPN)	4 panels (~1700/1000 mm) (B-VPN)
	pcs	pcs
CMP41H41/3,0MC	2	-
CMP41H41/2,2MC	4	4
LC41H41MC	4	2
SGKFM10x20	16	8
BUF...	4	4
PUF	6	6
SAM8x...E	10	10
NRM8F	10	10
CY...	10	10
PW8E	20	20
NSM8E	20	20

Detailed information on the products can be found on pages 47-75