

ASSEMBLY INSTRUCTIONS FOR THE CONSTRUCTION DP-DTHKSS-WZ (mounting along the short side of the module)

Manufacturer:

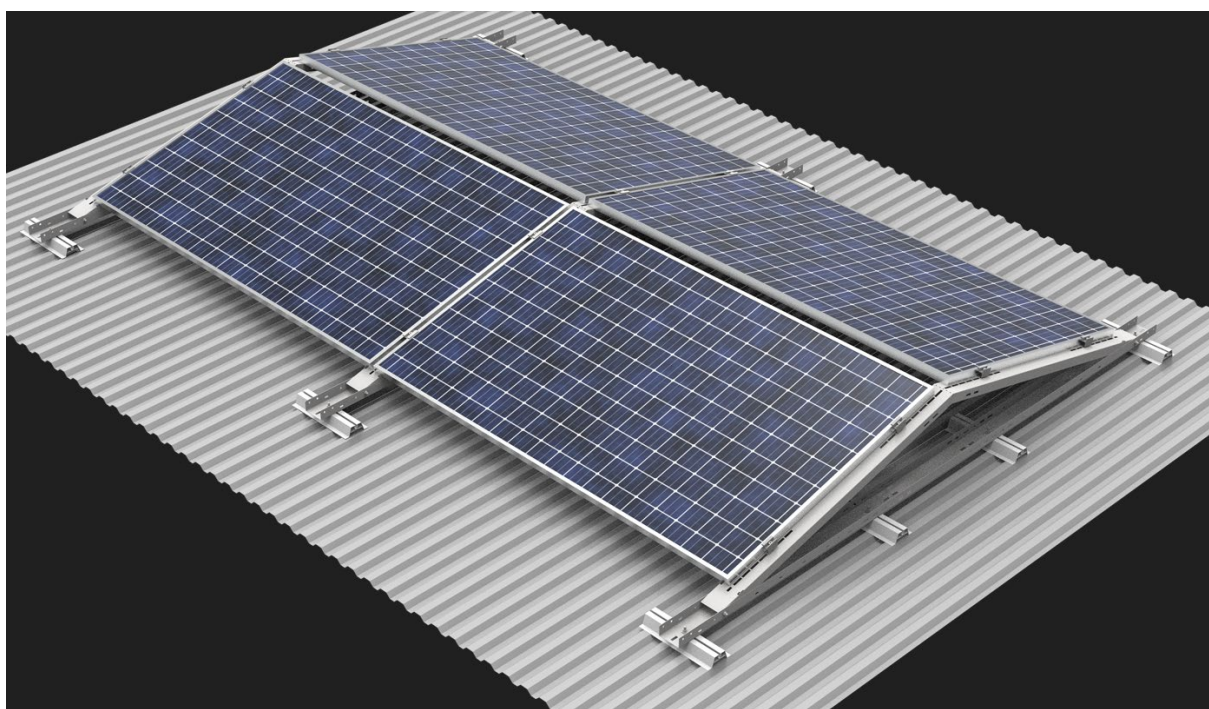
BAKS

ul. Jagodne 5

05-480 Karczew

Poland

Steel structure for flat roofs for mounting on SMA40 rails. Mounting of PV modules in horizontal orientation (landscape format) along the short side of the module.



BAKS - KAZIMIERZ SIELSKI

ul. Jagodne 5

05-480 Karczew

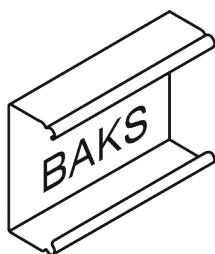
NIP: 5320102041

Regon: 008278930

Internet: www.baks.com.pl

Email: baks@baks.com.pl

Phone 22 710 81 00

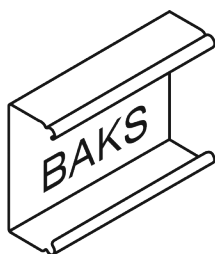


1. Tools required for the assembly of the structure

- Allen wrench, size 6
- Cordless screwdriver with speed and torque control
- Hexagon socket bit, size 6, for the screwdriver head
- Combination wrench, size 13 mm
- Ratchet with sockets, size 13 mm
- Extension 100–120 mm for socket wrenches
- Rubber mallet
- Torque wrench, range 10-30 Nm

2. General information

- The structure can be used in wind and snow load zones in accordance with **PN-EN 1991-1-3 and PN-EN 1991-1-4** standards .
- **Before starting assembly, the installation instructions of the PV module manufacturer must be observed.**
- The ballast values and their arrangement must be determined individually by a licensed structural engineer.
- The BUFEK.../PUFK clamps must be tightened with a torque of 12–14 Nm (check the module manufacturer's specifications).
- Contact details of technical support BAKS – available Monday to Friday from 7:00 a.m. to 3:00 p.m.:
marek.cedrowski@baks.com.pl tel: +48 22 710 81 96,+48 667 944 952
Deputy Head of the Photovoltaics Department
radoslaw.kramek@baks.com.pl tel: +48 22 710 81 96 – Technical Advisor
adam.wojciak@baks.com.pl tel: +48 22 710 81 23 – Technical Advisor



3. Overview of the components of the DP-DTHKSS-WZ design

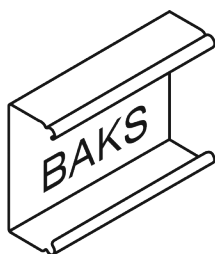
No	Description	Product Symbol	Use in construction
1	Lower profile	PDTSWZMC	Load-bearing profile
2	Upper Professional	PGTSWZMC	Module edition
3	Side clamp KCLICK	BUFEK...	Side module clamp
4	Middle clamp KCLICK	PUFK	Middle module clamp
5	Screw set	SKKM8x12E	Connection of the lower with the upper profile
6	Base	SMA40	Aluminum base
7	Self Drilling Screw	SMDP6.0x25E	Fixing the SMA40 base to the roof
8	Flange Nut	NKZM8E	nut
9	Screw	SSZ8x30E	Mounting screw for SMA40
10	washer	PW8E	washer

Table 1. Overview of construction elements

4. Assembly of the construction type DP-DTHKSS-WZ (mounting along the short side of the module)

The dimensions A and B (dimension B = module length + 20 mm) depend on the size of the modules to be assembled.

The maximum module dimensions allowed for proper assembly on the DP-DTHKSS-WZ structure on the short side of the module are: 2100 mm length × 1150 mm width (check details with the module manufacturer).



By selecting the appropriate mounting hole in the foot PDTSWZMC, the angle of inclination of the structure is adjusted according to Fig. 1.

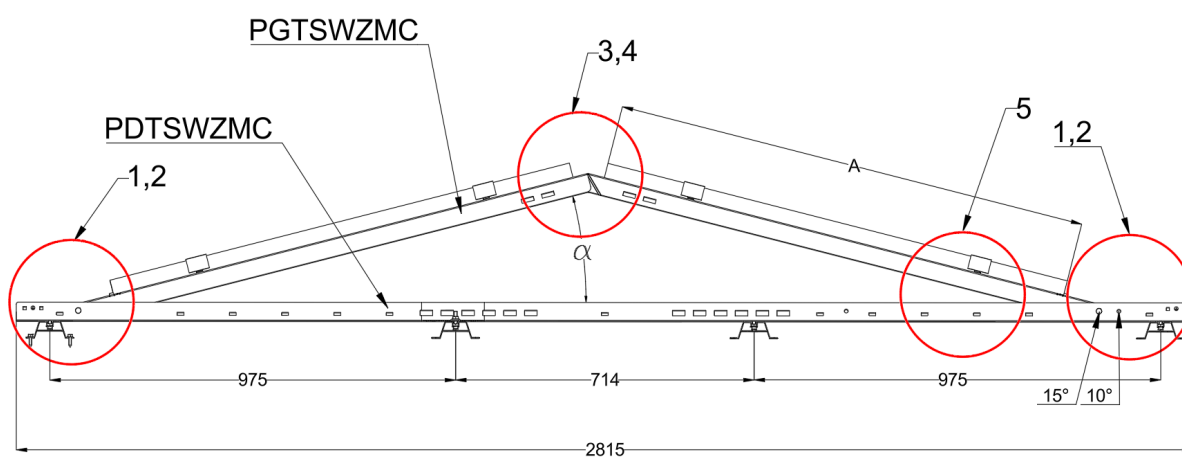


Fig. 1.

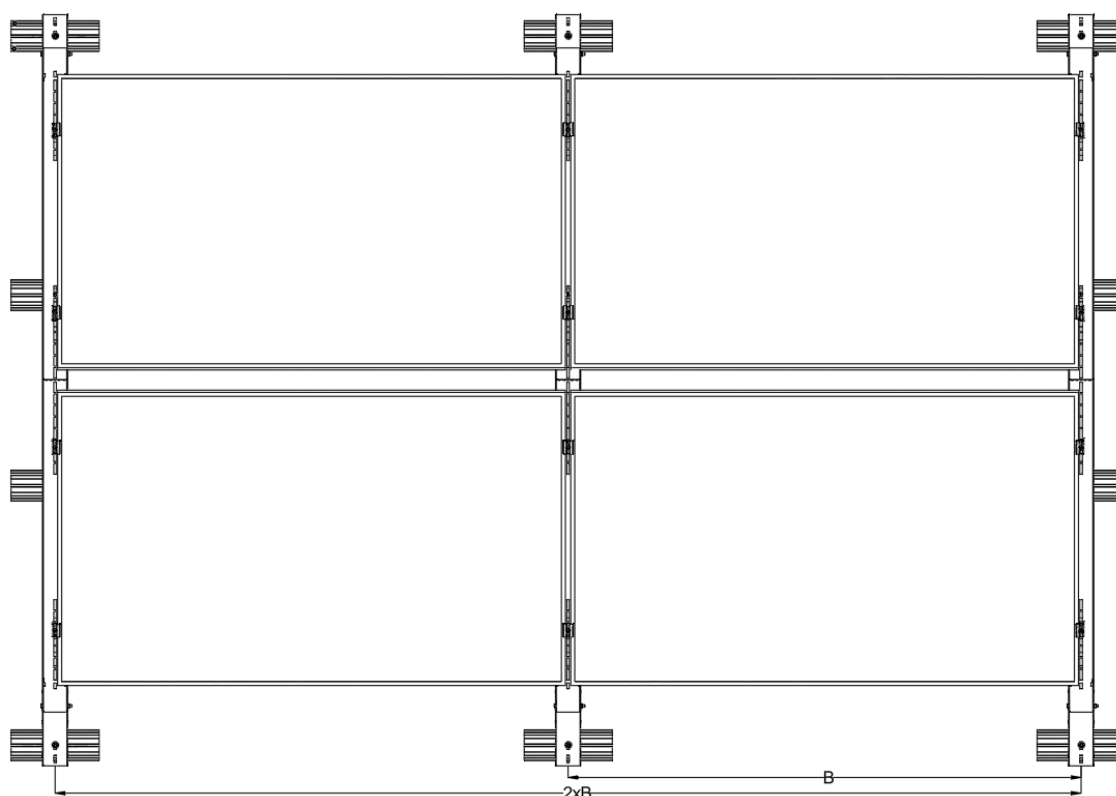
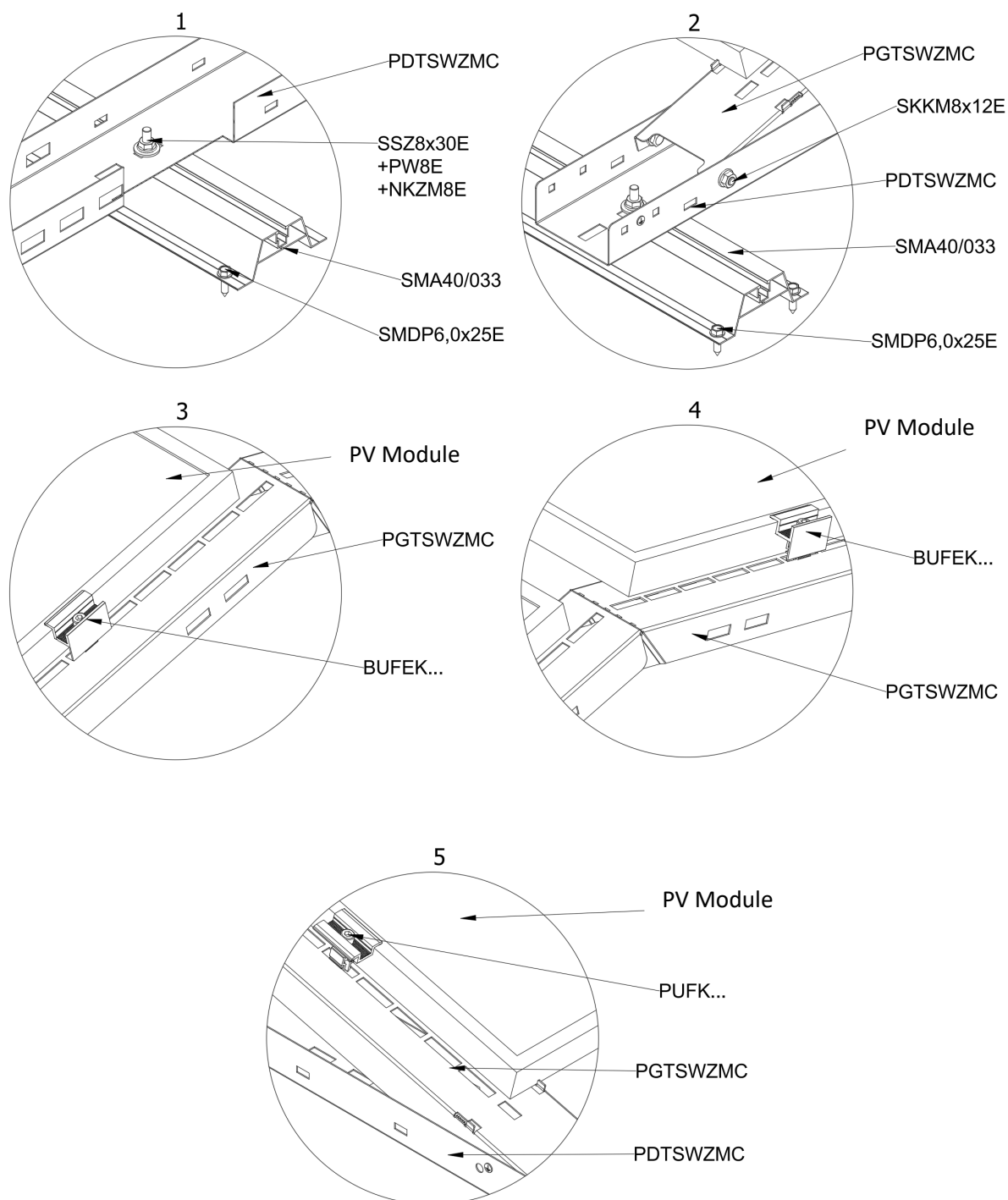
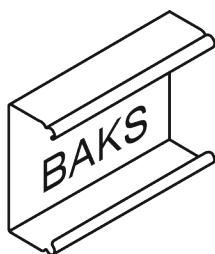


Fig. 2.





ASSEMBLY INSTRUCTIONS FOR THE CONSTRUCTION DP-DTHKSS-WZ (mounting along the long side of the module)

Manufacturer:

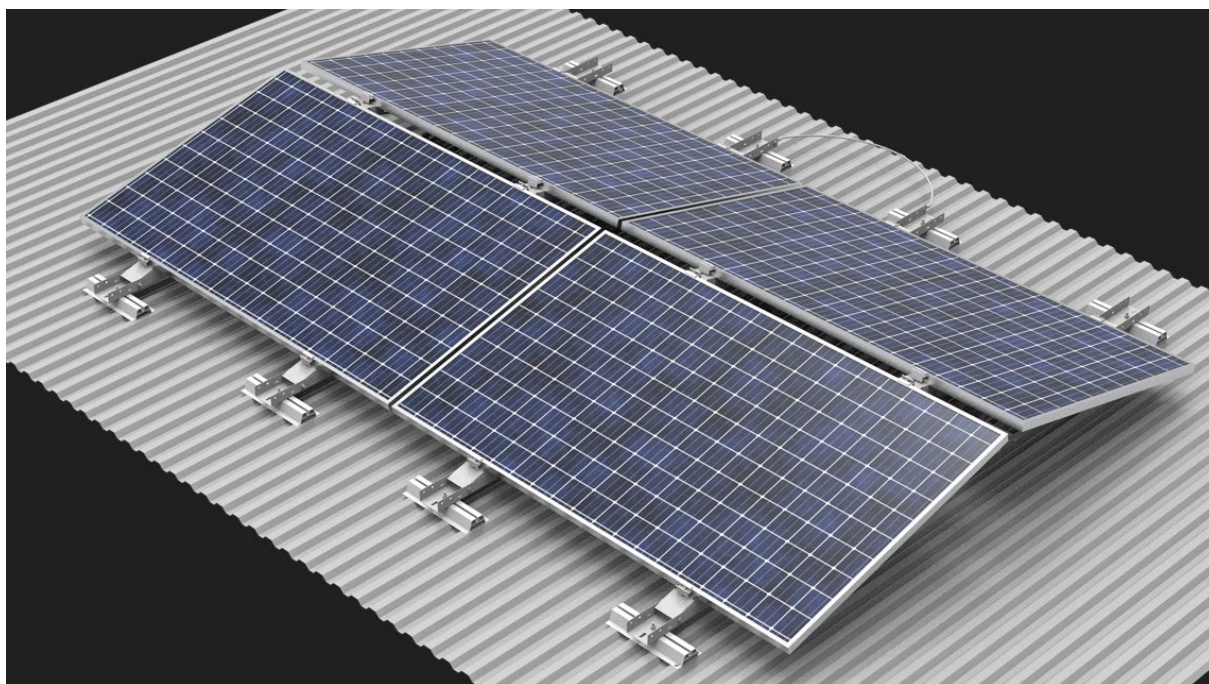
BAKS

ul. Jagodne 5

05-480 Karczew

Polska

Steel structure for flat roofs for mounting on SMA40 rails. Mounting of PV modules in horizontal orientation (landscape format) along the long side of the module.



BAKS - KAZIMIERZ SIELSKI

ul. Jagodne 5

05-480 Karczew

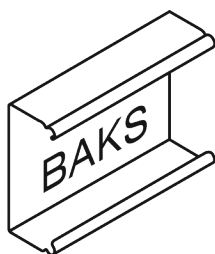
NIP: 5320102041

Regon: 008278930

Internet: www.baks.com.pl

Email: baks@baks.com.pl

Phone 22 710 81 00

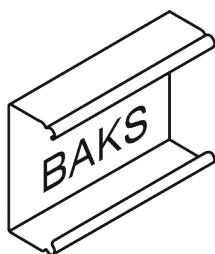


5. Tools required for the assembly of the structure

- Allen wrench, size 6
- Cordless screwdriver with speed and torque control
- Hexagon socket bit, size 6, for the screwdriver head
- Combination wrench, size 13 mm
- Ratchet with sockets, size 13 mm
- Extension 100–120 mm for socket wrenches
- Rubber mallet
- Torque wrench, range 10-30 Nm

6. General information

- The structure can be used in wind and snow load zones in accordance with **PN-EN 1991-1-3 and PN-EN 1991-1-4** standards .
- **Before starting assembly, the installation instructions of the PV module manufacturer must be observed.**
- The ballast values and their arrangement must be determined individually by a licensed structural engineer.
- The BUFEK clamps... are to be tightened with a torque of 12–14 Nm (check the module manufacturer's specifications).
- Contact details of technical support BAKS – available Monday to Friday from 7:00 a.m. to 3:00 p.m.:
marek.cedrowski@baks.com.pl phone +48 22 710 81 96,+48 667 944 952
Deputy Head of the Photovoltaics Department
radoslaw.kramek@baks.com.pl tel: +48 22 710 81 96 – Technical Advisor
adam.wojciak@baks.com.pl tel: +48 22 710 81 23 – Technical Advisor



7. Overview of the components of the DP-DTHKSS-WZ design

No	Description	Product Symbol	Use in construction
1	Lower profile	PDTSWZMC	Load-bearing profile
2	Upper profile	PGTSWZMC	Module edition
3	Side clamp KCLICK	BUFEK...	Side module clamp
4	Screw set	SKKM8x12E	Connection of the lower with the upper profile
5	Base	SMA40	Aluminum base
6	Self Drilling Screw	SMDP6.0x25E	Fixing the SMA40 base to the roof
7	Flange Nut	NKZM8E	nut
8	Screw	SSZ8x30E	Mounting screw for SMA40
9	washer	PW8E	washer

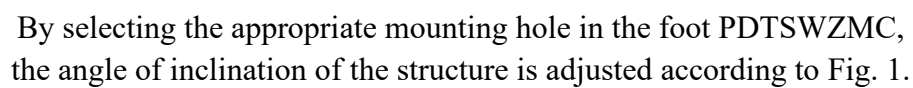
Table 1. Overview of construction elements

8. M Assembly of the construction type DP-DTHKSS-WZ (mounting on the long side of the module)

Dimension A,B,C and D (Dimension C is the mounting distance of the panel clamp as specified in the assembly instructions by the module manufacturer). Dimension D is the resulting dimension depending on the length of the module.

Dimension A is the width of the panel (the maximum width of the panel that can be mounted is 1150mm).

Dimension B is the length of the module.

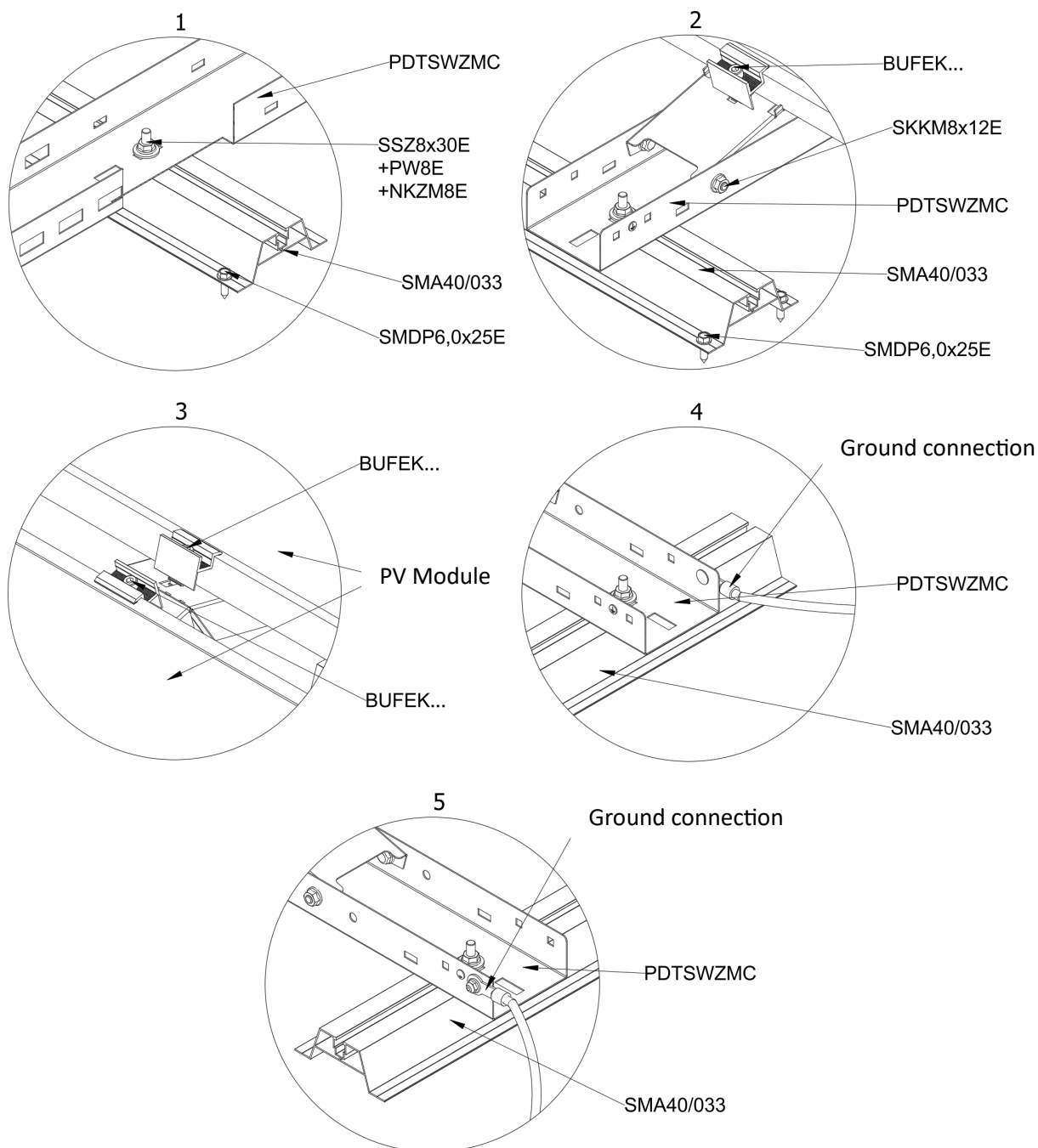


Technical drawing of a roof structure. The drawing shows a cross-section of a roof with a base length of 2815. The roof is divided into three sections with horizontal dimensions of 975, 714, and 975. The roof slope is indicated by an angle α . The roof structure is labeled with components: PGTSWZMC (Pitched Gable Timber Structure with Zinc Coated Metal Cladding) and PDTSWZMC (Pitched Timber Structure with Zinc Coated Metal Cladding). The roof is supported by a base structure with dimensions 15° and 10°. The roof is divided into sections labeled 1, 2, 4, 5 and 3. The roof is supported by a base structure with dimensions 15° and 10°.

Technical drawing of a four-panel display system. The system consists of four rectangular panels arranged in a 2x2 grid. Each panel is mounted on a wall using a bracket. The dimensions are labeled as follows:

- A**: Height of the top panels.
- B**: Height of the bottom panels.
- C**: Width of the right panels.
- D**: Width of the left panels.
- E**: Distance between the center of the top panels.
- F**: Distance between the center of the bottom panels.
- G**: Distance between the center of the left panels.
- H**: Distance between the center of the right panels.
- I**: Distance between the center of the top and bottom panels.
- J**: Distance between the center of the left and right panels.
- K**: Distance between the center of the top and bottom panels, including the mounting brackets.
- L**: Distance between the center of the left and right panels, including the mounting brackets.
- M**: Distance between the center of the top and bottom panels, including the mounting brackets and the distance between the panels.
- N**: Distance between the center of the left and right panels, including the mounting brackets and the distance between the panels.
- O**: Distance between the center of the top and bottom panels, including the mounting brackets and the distance between the panels.
- P**: Distance between the center of the left and right panels, including the mounting brackets and the distance between the panels.
- Q**: Distance between the center of the top and bottom panels, including the mounting brackets and the distance between the panels.
- R**: Distance between the center of the left and right panels, including the mounting brackets and the distance between the panels.
- S**: Distance between the center of the top and bottom panels, including the mounting brackets and the distance between the panels.
- T**: Distance between the center of the left and right panels, including the mounting brackets and the distance between the panels.
- U**: Distance between the center of the top and bottom panels, including the mounting brackets and the distance between the panels.
- V**: Distance between the center of the left and right panels, including the mounting brackets and the distance between the panels.
- W**: Distance between the center of the top and bottom panels, including the mounting brackets and the distance between the panels.
- X**: Distance between the center of the left and right panels, including the mounting brackets and the distance between the panels.
- Y**: Distance between the center of the top and bottom panels, including the mounting brackets and the distance between the panels.
- Z**: Distance between the center of the left and right panels, including the mounting brackets and the distance between the panels.

Internet: www.baks.com.pl
Email: baks@baks.com.pl
Phone 22 710 81 00



BAKS - KAZIMIERZ SIELSKI

ul. Jagodne 5
05-480 Karczew
NIP: 5320102041
Regon: 008278930

Internet: www.baks.com.pl

Email: baks@baks.com.pl

Phone 22 710 81 00