



ASSEMBLY INSTRUCTIONS FOR THE CONSTRUCTION DP-DTHKSS

(Mounting along the short side of the panel)

Manufacturer:

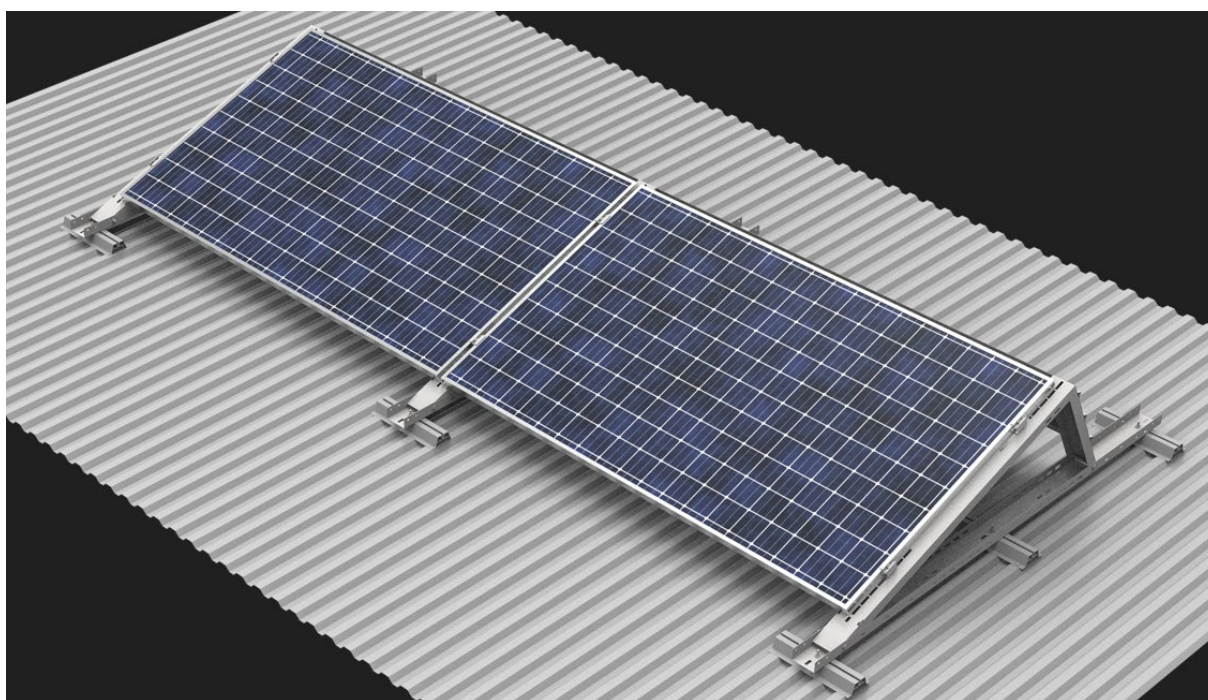
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ul. Jagodne 5

05-480 Karczew

Polska

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



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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 construction can be used in wind and snow load zones in accordance with the **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 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.:
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3. Overview of the components of the DP-DTHKSS design

No	Description	Product Symbol	Use in construction
1	Lower profile	PDTSMC	Load-bearing profile
2	Upper profile	PGTSMC	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	Wind deflector	OWN20/... MC	Wind deflector
7	Self Drilling Screw	SMDP4.8x25E	Installation of the wind deflectors
8	Base	SMA40	Aluminum base
9	Self Drilling Screw	SMDP6.0x25E	Fixing the SMA40 base to the roof
10	Flange Nut	NKZM8E	nut
11	Screw	SSZ8x30E	Mounting screw for SMA40
12	washer	PW8E	washer

Table 1. Overview of construction elements

4. Assembly of the structure type DP-DTHKSS (Mounting along the short side of the panel)

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

The determination is carried out by actually applying the module to the PDTSMC and PGTSMC profiles that have already been mounted.

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



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

For installation of wind deflectors OWN20/...NMC, use self-drilling screws SMPD4.8x25E.

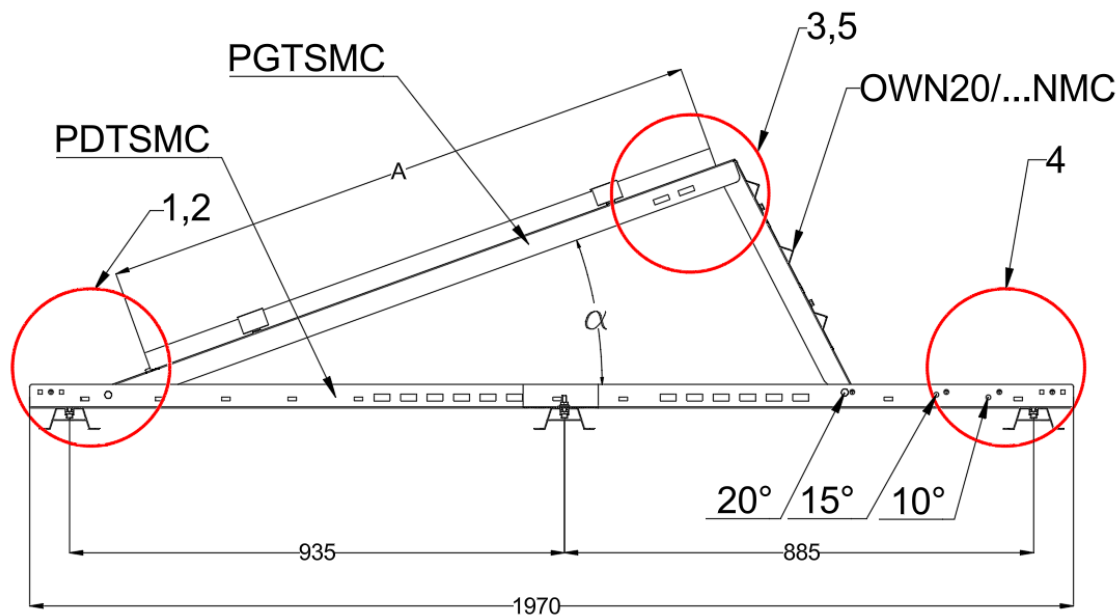


Fig. 1.

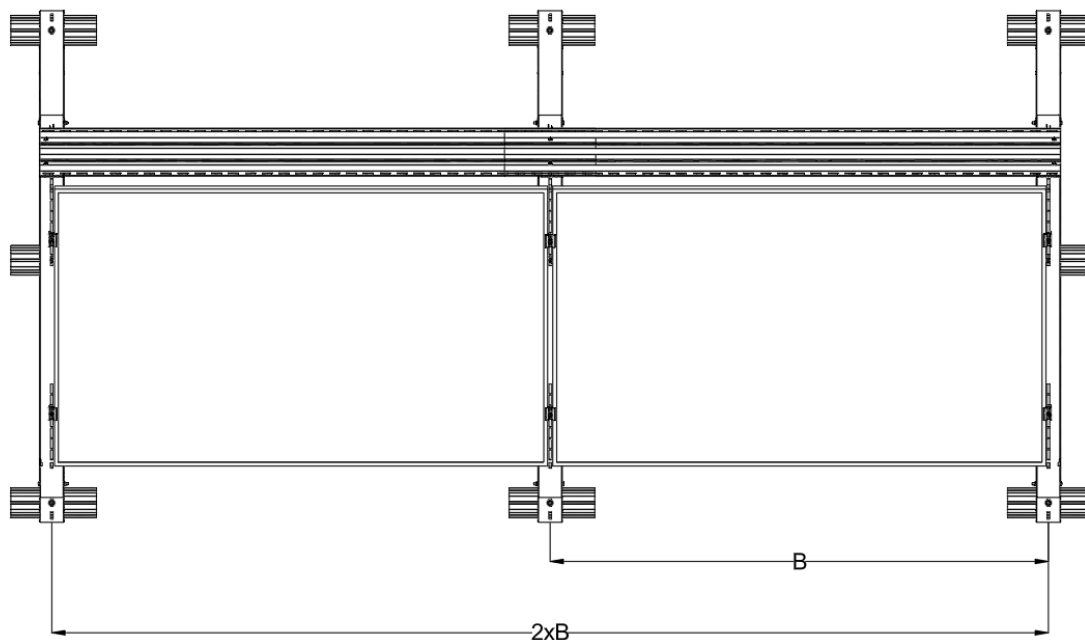
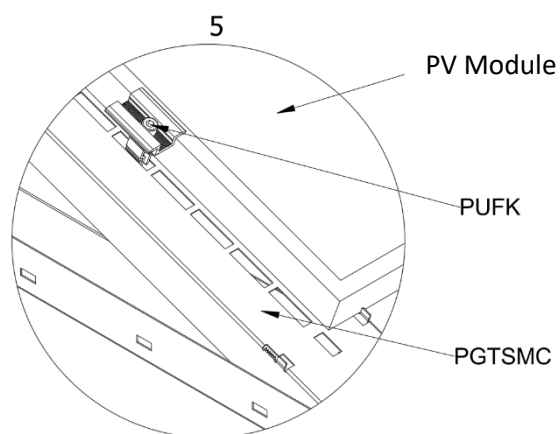
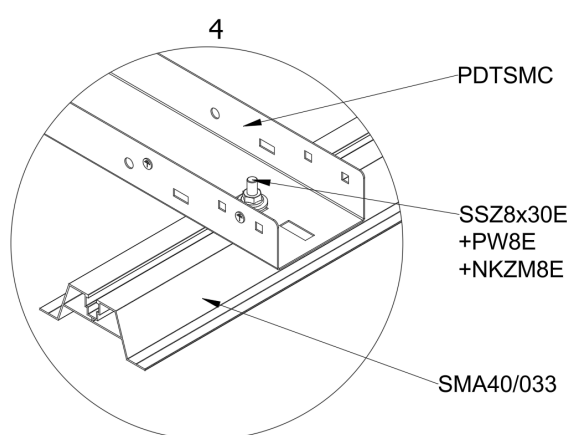
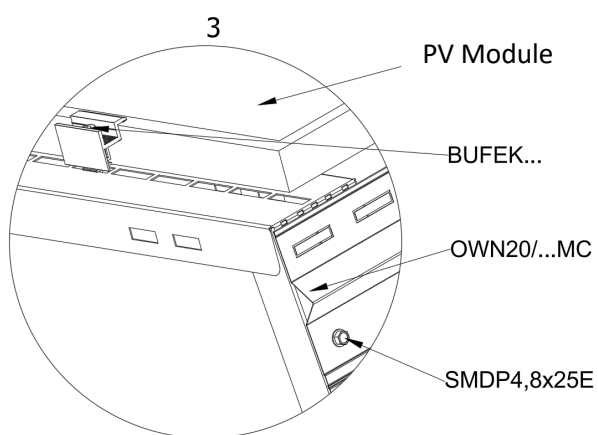
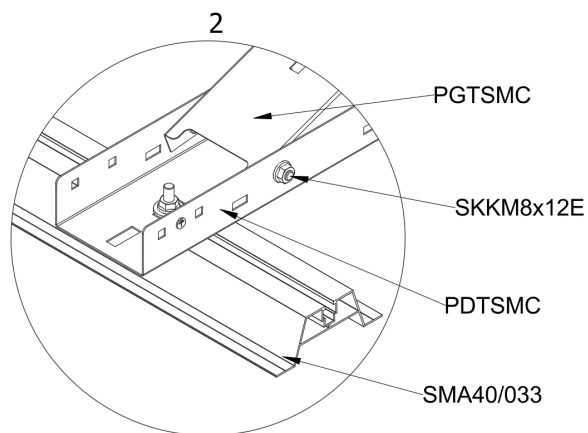
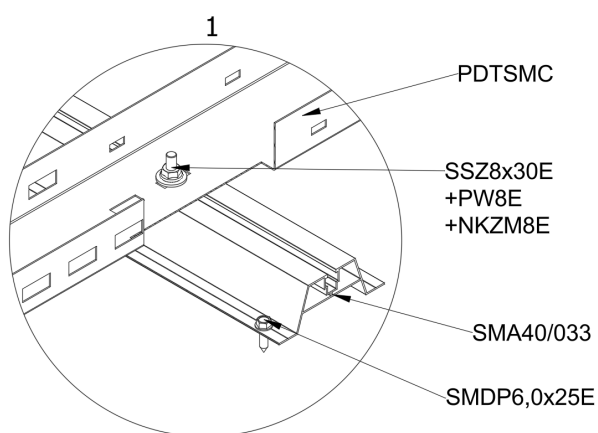
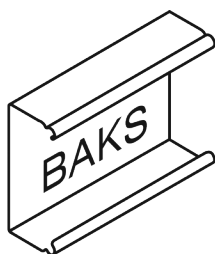


Fig. 2.





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

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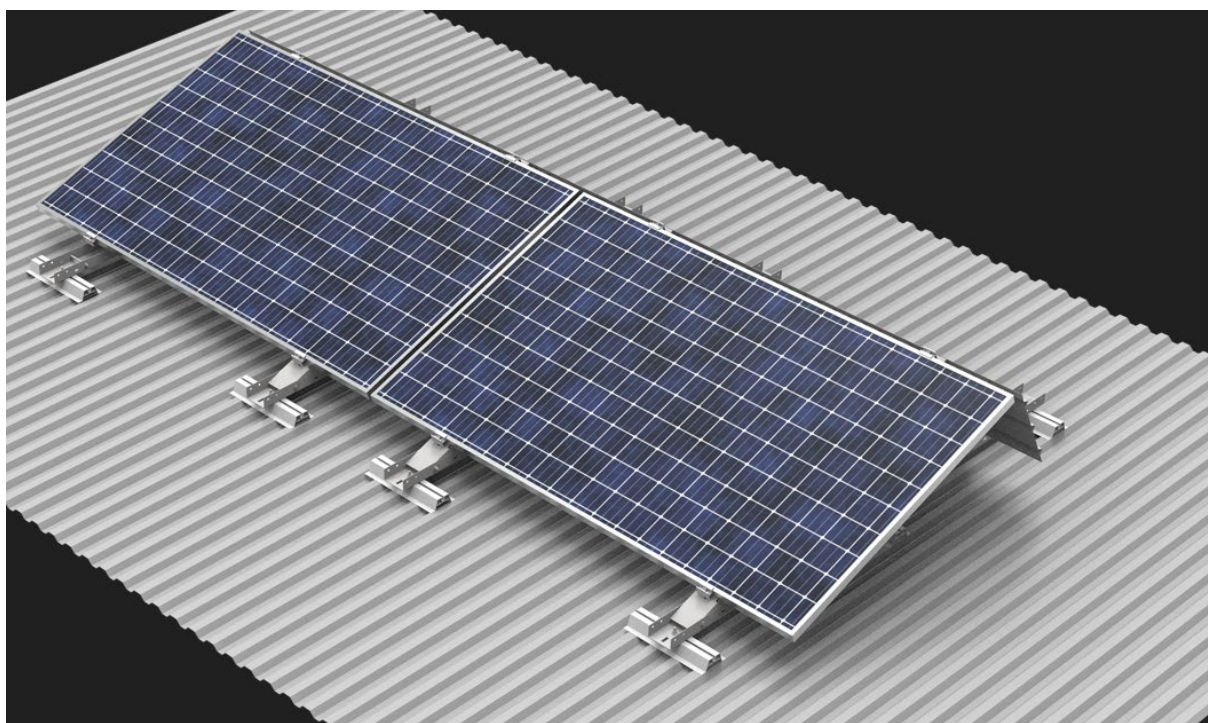
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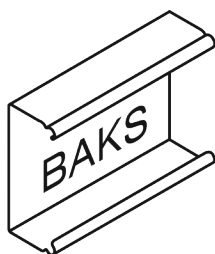
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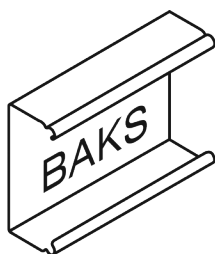


5. Tools required for the assembly of the structure

- 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 connectors
- 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 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.:
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7. Overview of the components of the DP-DTHKS design

No	Description	Product Symbol	Use in construction
1	Lower profile	PDTSMC	Load-bearing profile
2	Upper profile	PGTSMC	Module edition
3	Side clamp KCLICK	BUFEK...	Side module clamp
4	Screw set	SKKM8x12E	Connection of the lower with the upper profile
5	Wind deflector	OWN20/... MC	Wind deflector
6	Self Drilling Screw	SMDP4.8x25E	Installation of the wind deflectors
7	Anchor	PSRM10x90F	Exemplary fastening anchor for the construction
8	Base	SMA40	Aluminum base
9	Self Drilling Screw	SMDP6.0x25E	Fixing the SMA40 base to the roof
10	Flange Nut	NKZM8E	nut
11	Screw	SSZ8x30E	Mounting screw for SMA40
12	washer	PW8E	washer

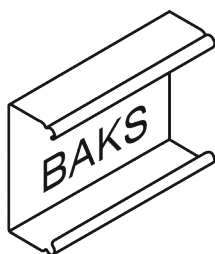
Table 1. Overview of construction elements

8. Assembly of the structure type DP-DTHKSS (mounting along 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.



By selecting the appropriate mounting hole in the PDTSMC foot, the angle of inclination of the construction according to Fig. 1.

For installation of wind deflectors OWN20/...NMC, use self-drilling screws SMPD4.8x25E.

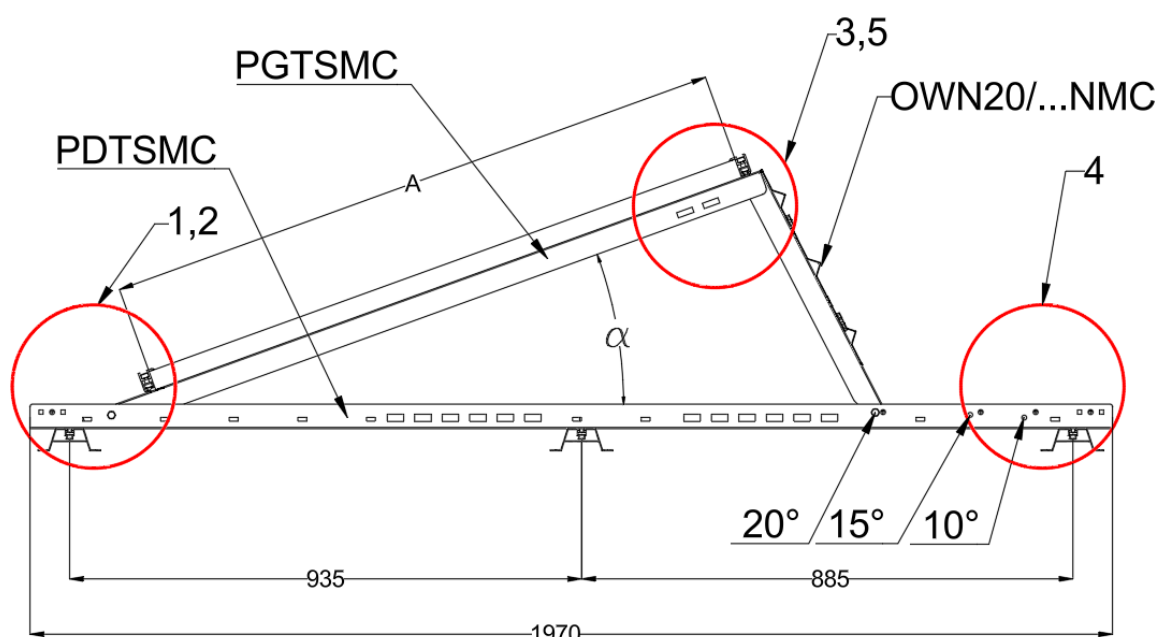


Fig. 2.

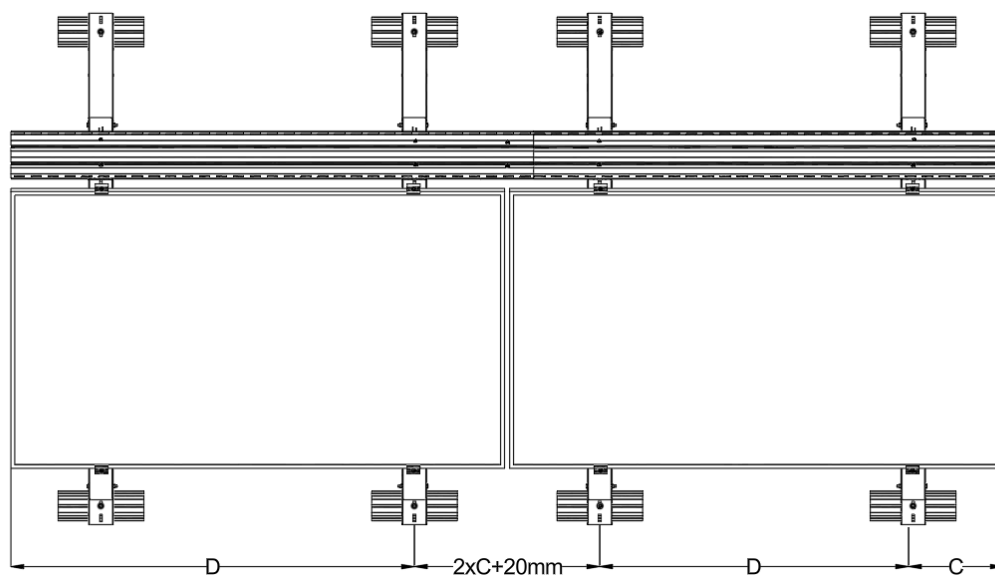
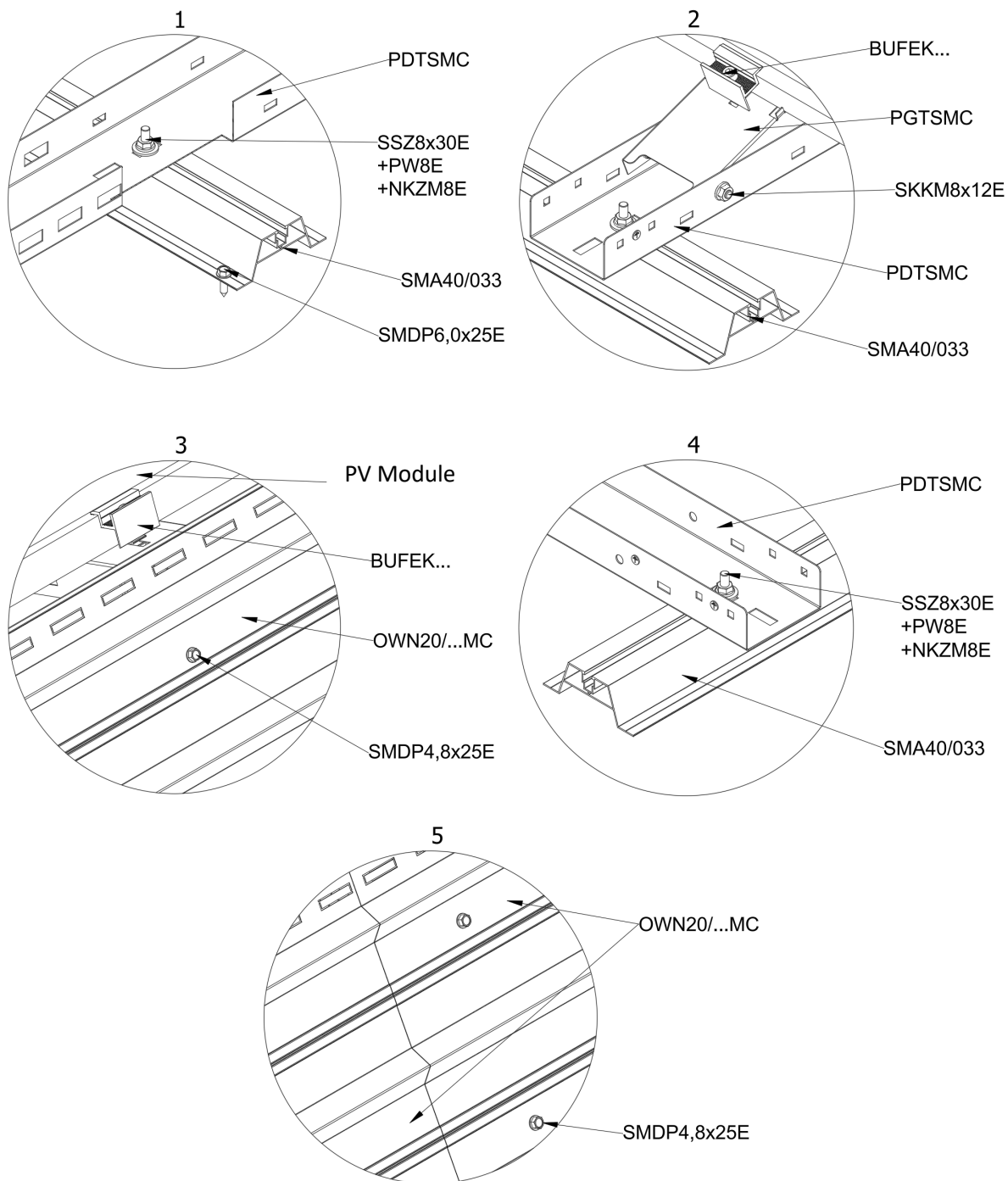


Fig. 2



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