



DP-DTHBS STRUCTURE ASSEMBLY INSTRUCTIONS

(Mounting along the short side of the panel)

Manufacturer:

BAKS

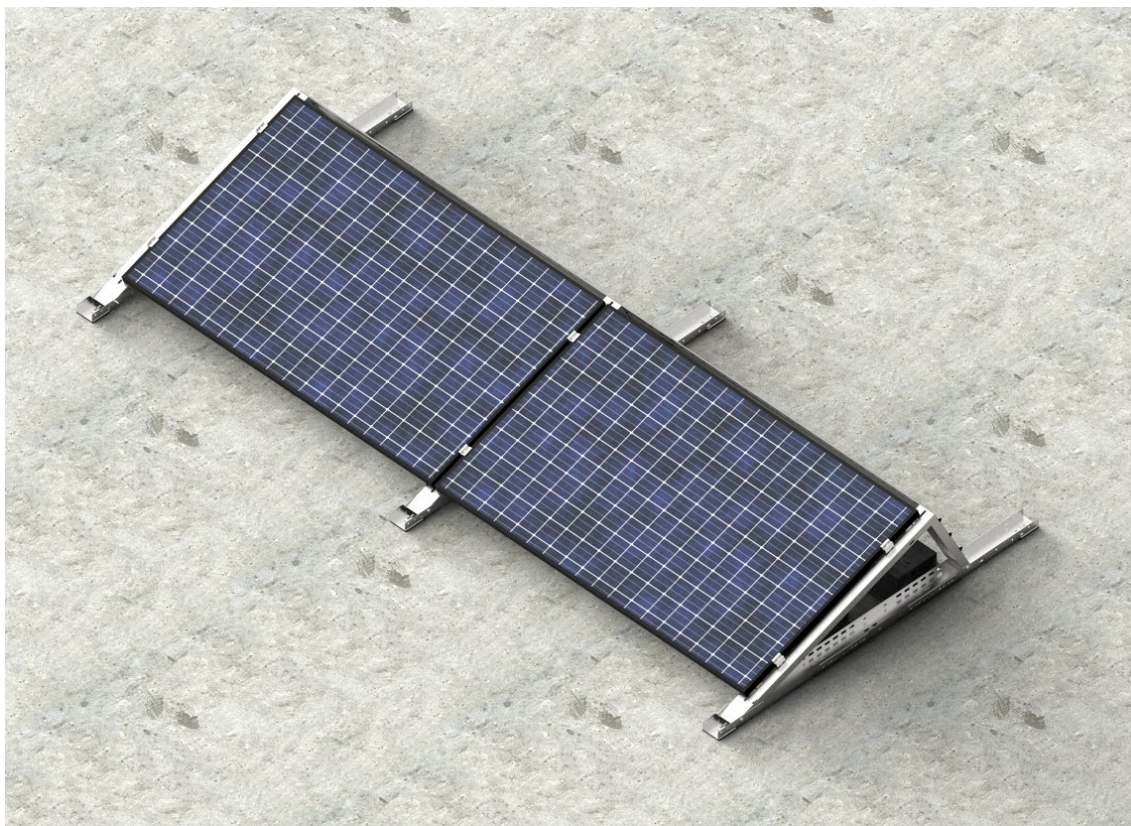
5 Jagodne Street

05-480 Karczew

Poland

Steel structure for a flat roof in a ballast version.

Installation of PV panels in a horizontal arrangement (horizontal)
along the short side of the panel.



BAKS - KAZIMIERZ SIELSKI

5 Jagodne Street

05-480 Karczew

NIP: 5320102041

Regon: 008278930

Internet: www.baks.com.pl

Email: baks@baks.com.pl

Tel. 22 710 81 00



1. Essential tools for assembling the structure

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

2. General information

- Possibility of using the structure in wind and snow zones in accordance with the following standards: **PN-EN 1991-1-3** and **PN-EN 1991-1-4**
- **Before proceeding with the installation of the structure, you should read the installation instructions for photovoltaic panels**
- Values and ballast placement individually determined by the authorized engineer
- The BUFEK.../PUFK fastening clamps should be tightened to 12-14 Nm (verify with the module manufacturer's installation instructions)
- Contact details of BAKS technical support - possibility of contact Mon-Fri 7 a.m. - 3 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. List of elements included in the DP-DTHBS design

No	Name	Product symbol	Purpose in construction
1	Bottom profile	PDTSMC	Load-bearing profile
2	upper profile	PGTSMC	Panel support
3	Side clamp CLICK	BUFF...	Side clamp fixing panels
4	Middle clamp CLICK	PUFK	Middle clamp fixing panels
5	Channel base with vibro-insulating rubber	PC100J	Prevents the ends of the steel profiles from pressing against the roof sheathing
6	Screw set	SKKM8x12E	Fixing the bottom profile with the top profile
7	Wind shield	OWN20/... MC	Wind shield
8	Ballast base	PBKJ40MC	Base for ballast
		PBKD40MC	Ballast base for increased ballast (optional)
9	Vibro-insulating rubber	SBV250x350	Separation between the supporting elements and the roof sheathing
10	Self-drilling screw	SMDP4,8x25E	Installation of wind shields

Table 1 Construction Elements Overview

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

Dimensions A and B (dimension B is the length of the module + 20mm) depends on the size of the installed modules. It should be determined by physically fitting the module to the mounted PDTSMC and PGTSMC profiles.

The maximum size of the modules that can be correctly mounted on the DP-DTHBS structure along the short side of the panel: 2100mm long x 1150mm wide (to be verified with the module manufacturer)



By selecting the appropriate mounting hole in the PDTSMC base, we set the angle of the structure according to Figure 1.

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

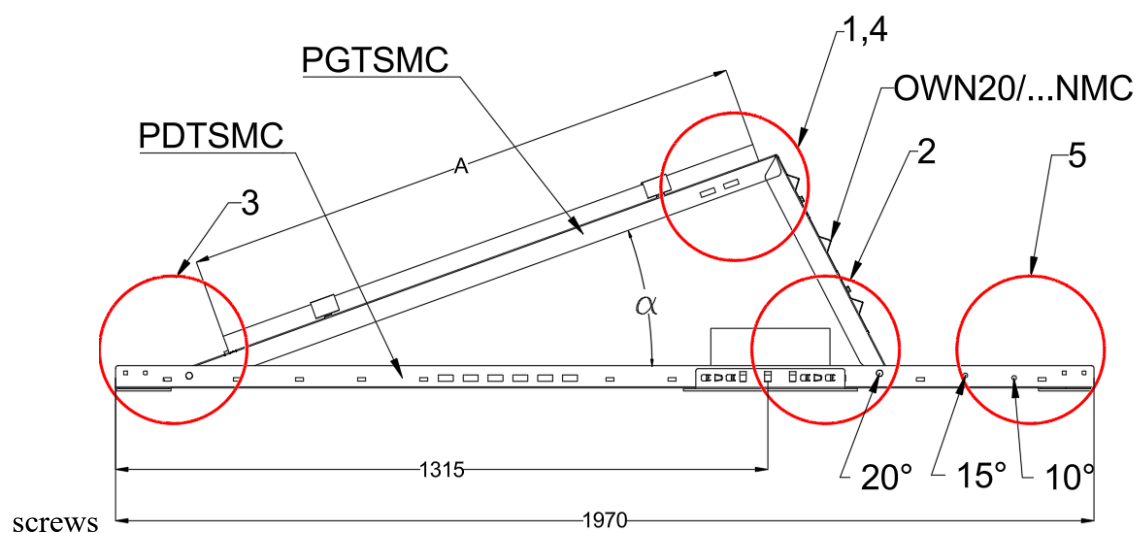


Figure 1.

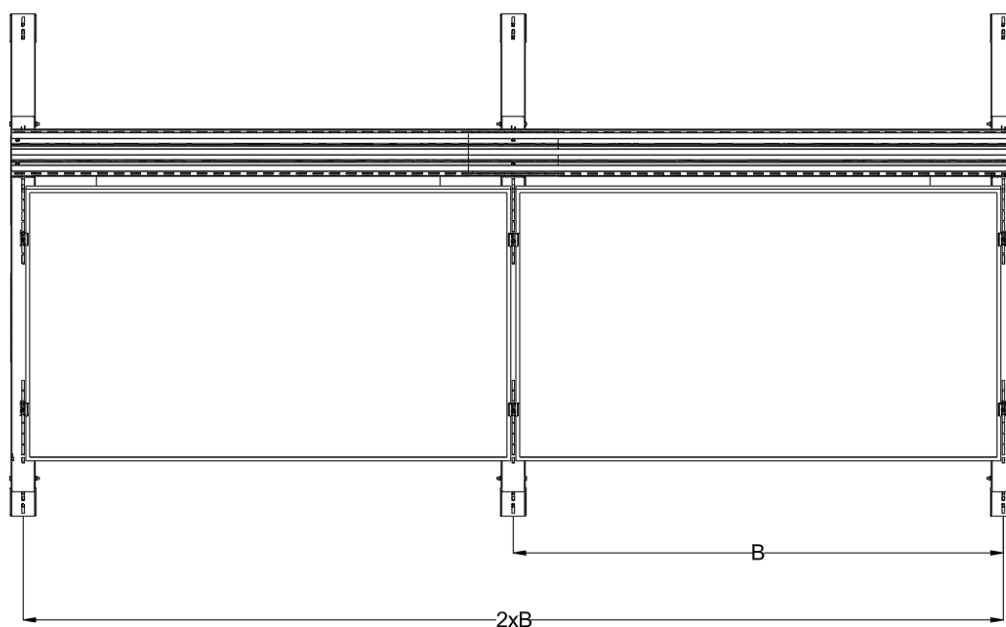


Figure 2.

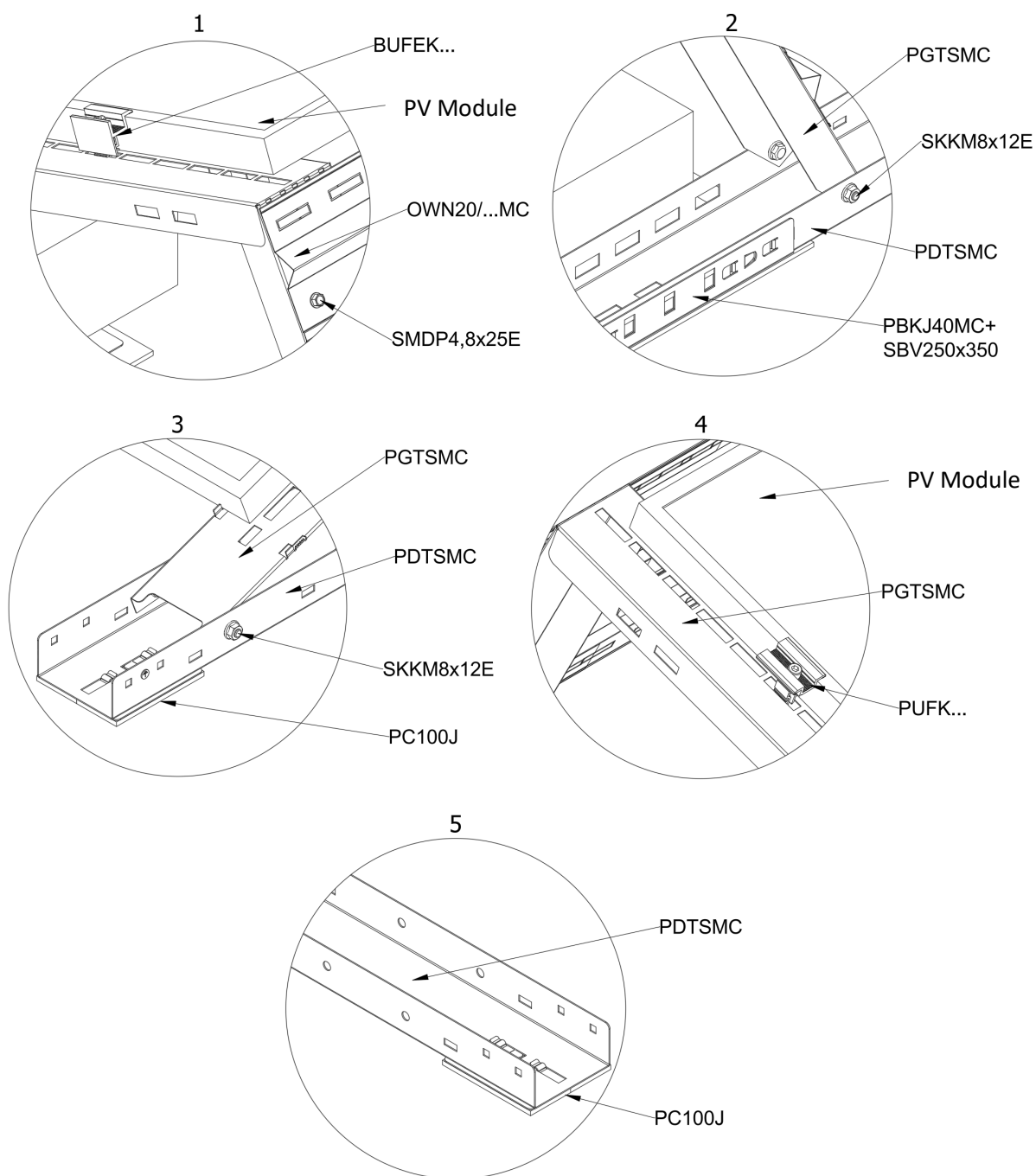
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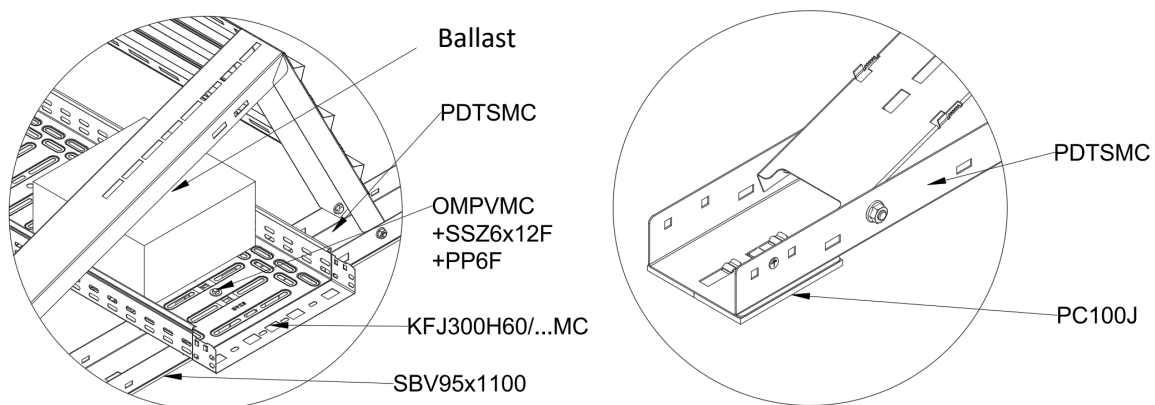
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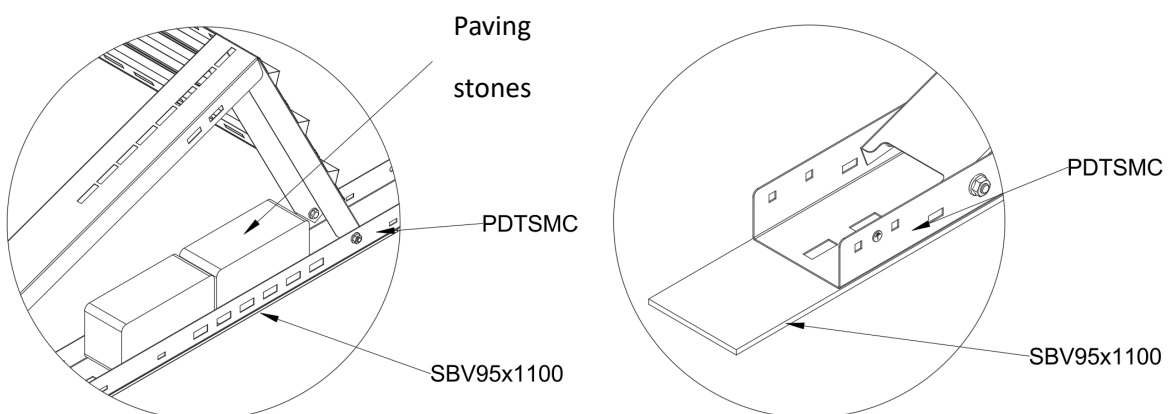


BALLAST MOUNTING OPTIONS:

-Cable tray KFJ300H60/... MC+PC100J Base



- paving stones in the PDTSMC base



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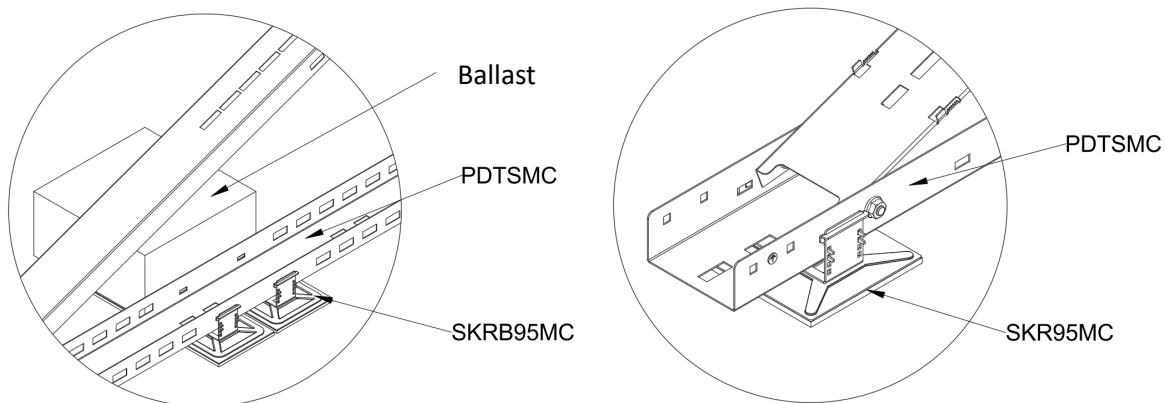
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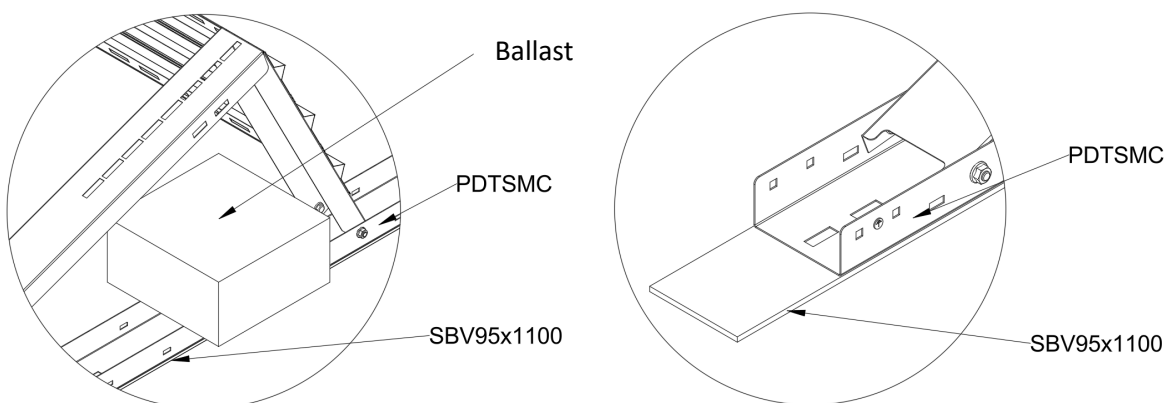
Tel. 22 710 81 00



- Adjustable bases of the click SKR95MC type + ballast bases of the click SKRB95MC type



- concrete block laid on the basis of PDTSMC



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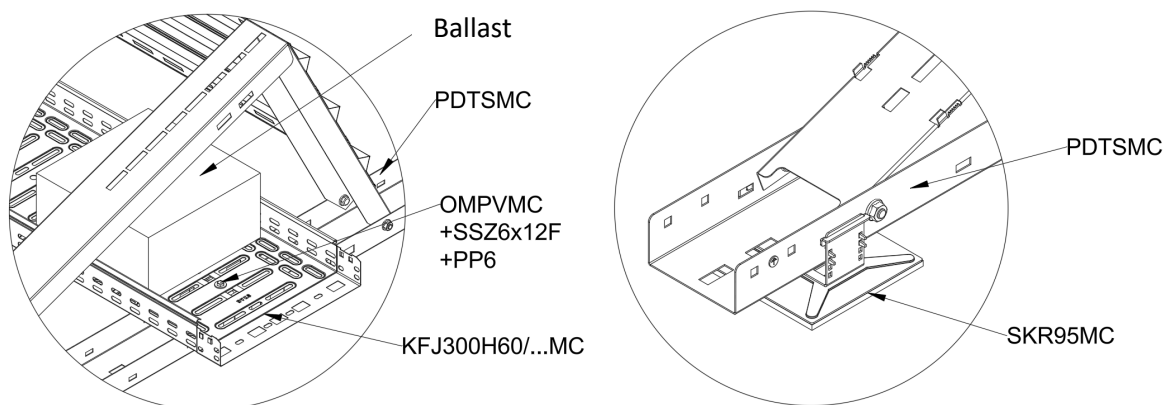
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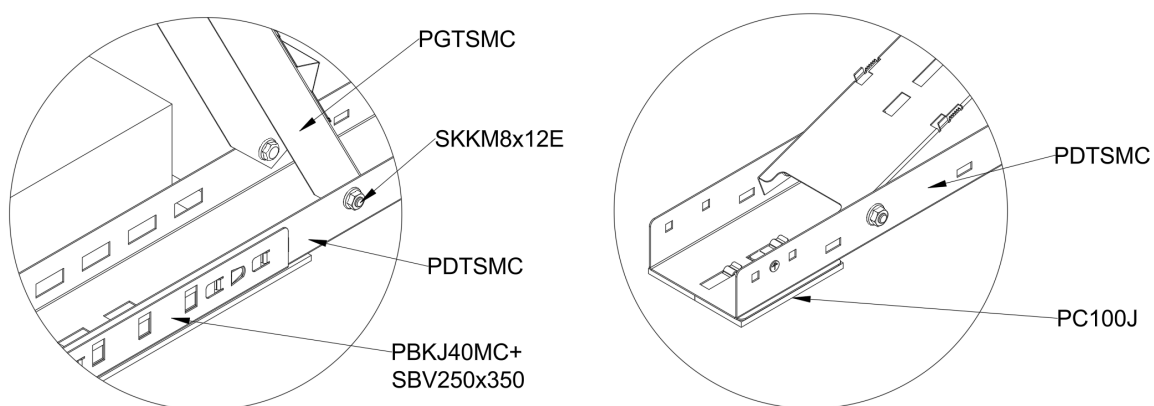
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-adjustable bases of the click SKR95MC type + KFJ300H60/... MC



-click PBKJ40MC bases + SBV250x350 rubber



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- Contact details of BAKS technical support - possibility of contact Mon-Fri 7 a.m. - 3 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

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8	Vibro-insulating rubber	SBV250x350	Separation between the supporting elements and the roof sheathing
9	Self-drilling screw	SMDP4,8x25E	Installation of wind shields

Table 2 Construction Elements Overview

8. Mounting of the structure type DP-DTHBS (mounting on the long side of the panel)

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 base, we set the angle of the structure according to Figure 1.

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

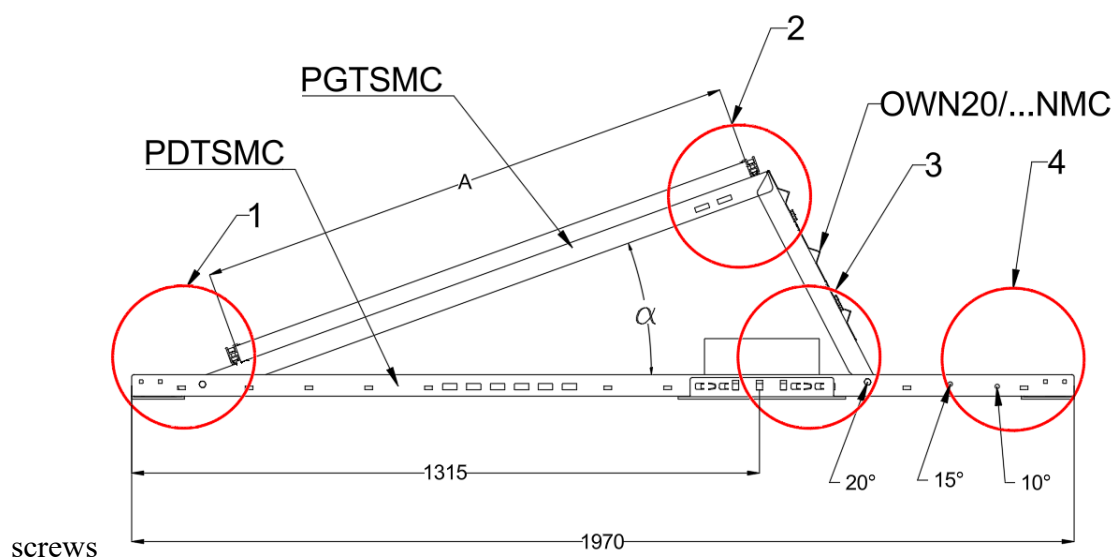


Figure 2.

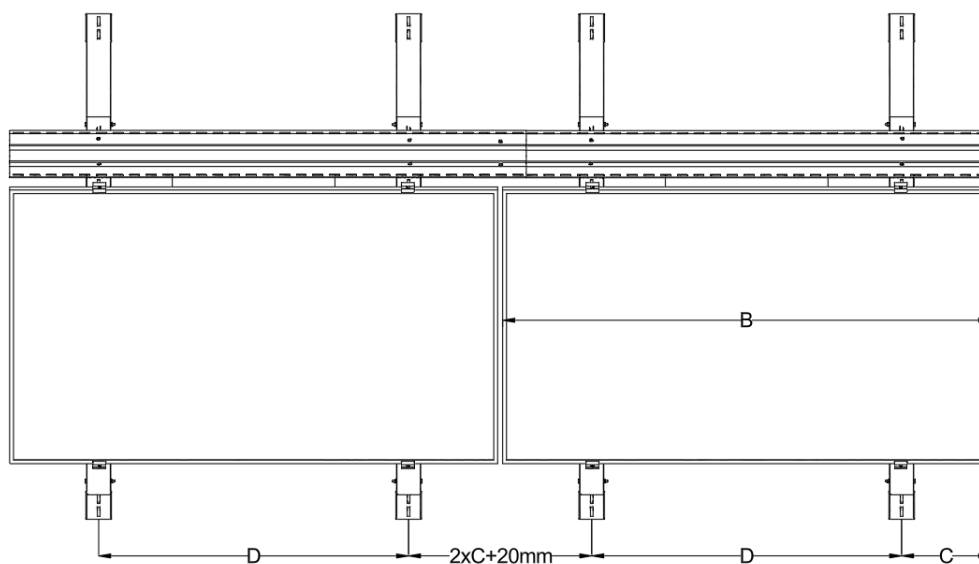


Fig 2

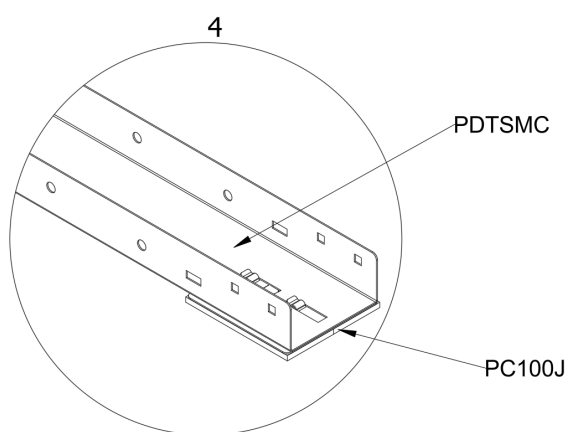
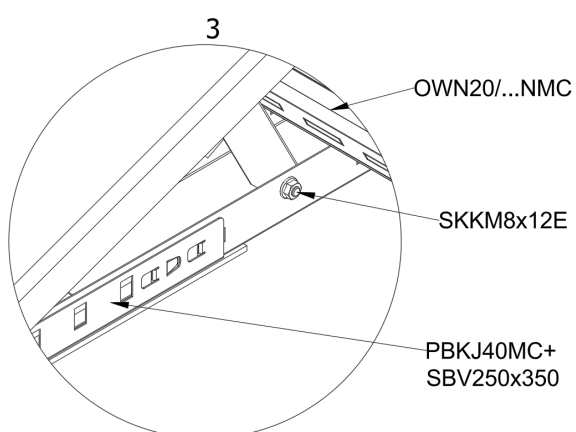
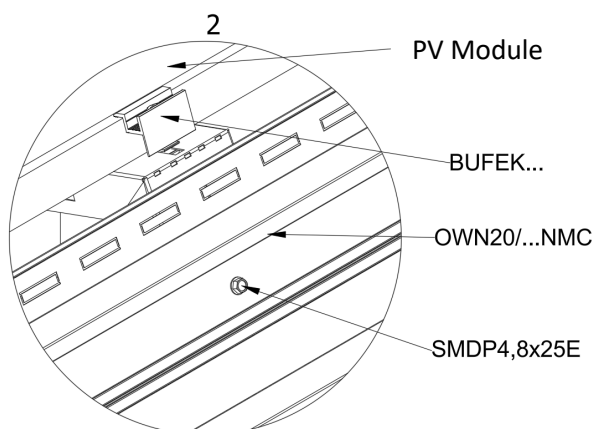
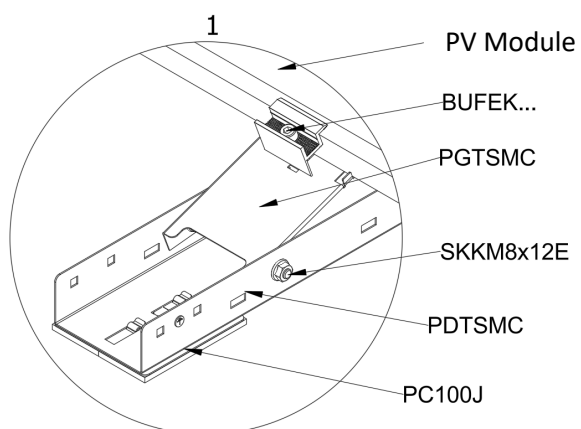
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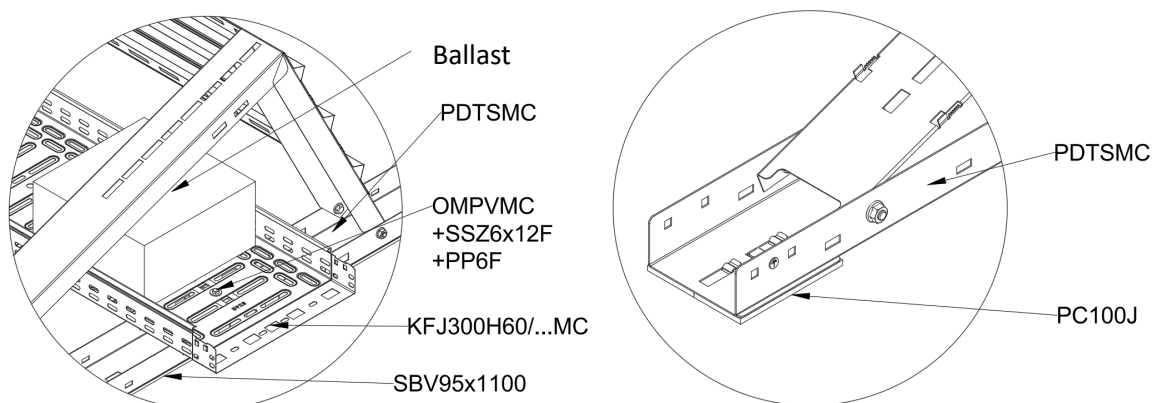
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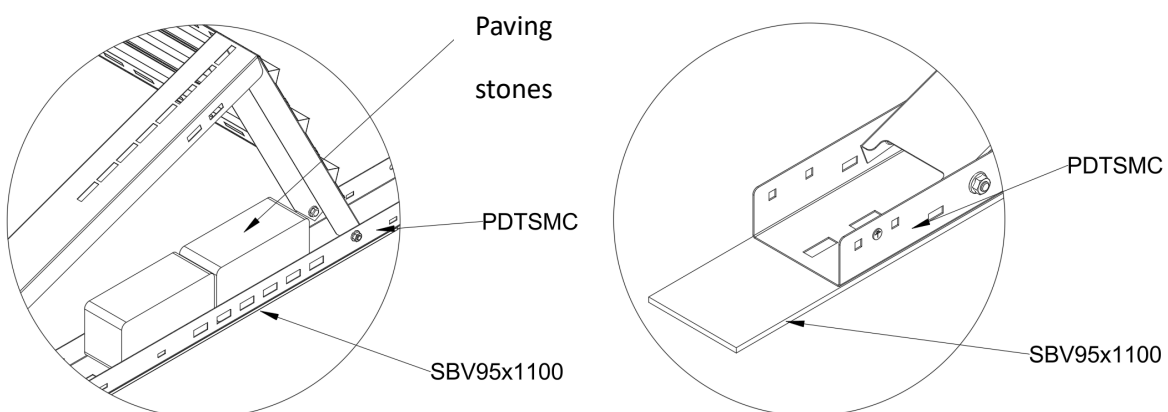


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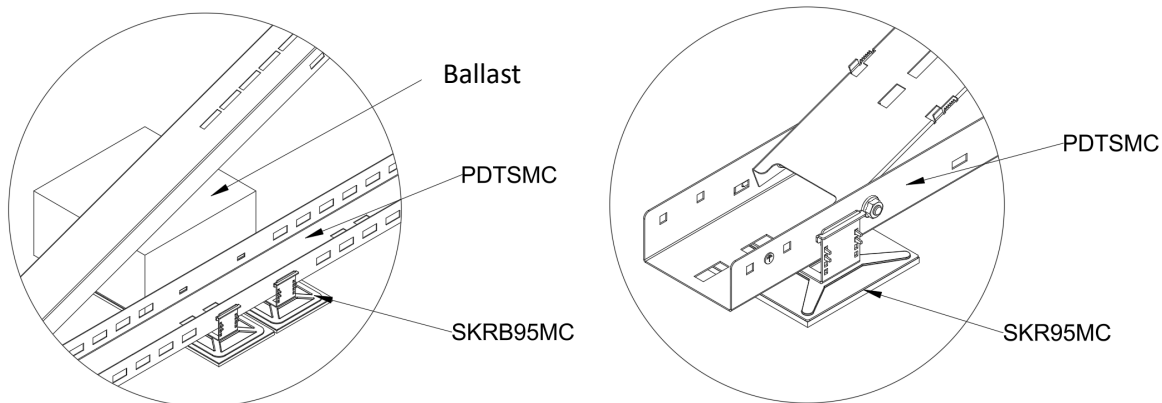
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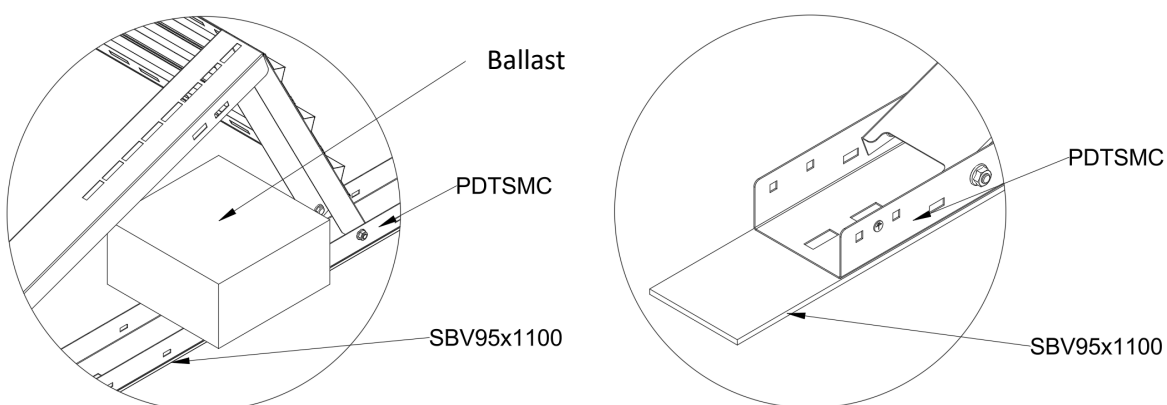
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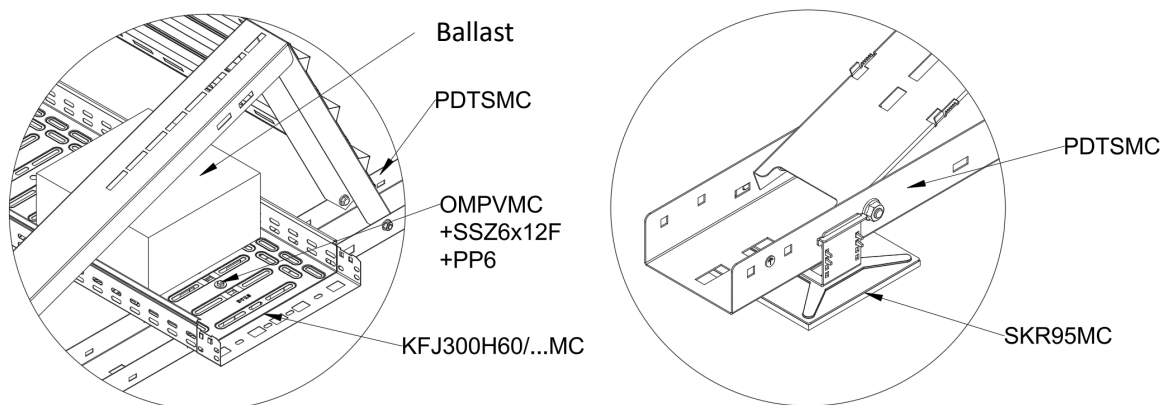


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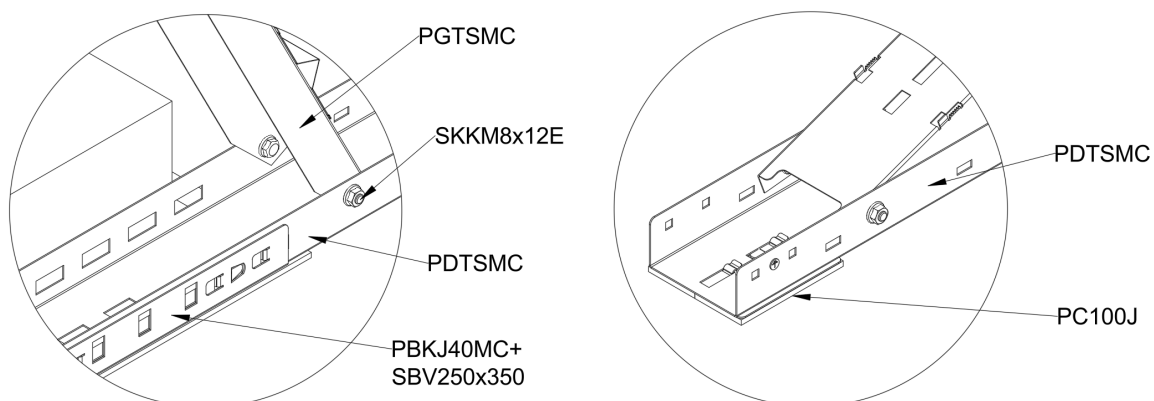




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