NÁVOD NA MONTÁŽ KONŠTRUKCIE DP-DTHWS-WZ

(montáž za kratšiu stranu)

Výrobca:

BAKS

ul. Jagodne 5

05-480 Karczew

Poľsko

Oceľová konštrukcia na plochú strechu vo zváranej verzii.

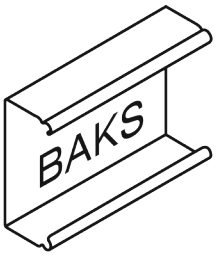
Montáž FV panelov vo vodorovnom usporiadaní (na ležato)

za kratšiu stranu panela.



BAKS - KAZIMIERZ SIELSKI ul. Jagodne 5, 05-480 Karczew NIP: 5320102041 Regon: 008278930

Internet: www.baks.com.pl
E-mail: baks@baks.com.pl
Tel. 22 710 81 00

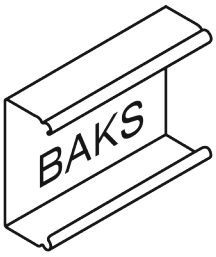


1. Potrebné náradie na montáž konštrukcie

• Imbusový kľúč veľkosti 6
• Aku skrutkovač s reguláciou otáčok a krútiaceho momentu
• Imbusový bit veľkosti 6 do skrutkovača
• Očkovo-vidlicové kľúče 13 mm
• Račňa s nástrčnými kľúčmi 13 mm
• Predĺženie 100–120 mm pre nástrčné kľúče
• Gumené kladivo
• Momentový kľúč, rozsah 10–30 Nm

2. Všeobecné informácie

• Konštrukciu možno použiť vo veterných a snehových oblastiach podľa noriem STN EN 1991-1-3 a STN EN 1991-1-4
• Pred montážou konštrukcie si prečítajte návod na montáž fotovoltických panelov
• Upínacie svorky BUFEK.../PUFK uťahujte momentom 12–14 Nm (overte v návode výrobcu modulov)
• Kontakt na technickú podporu BAKS – po – pi 7 a.m. - 3 p.m.
marek.cedrowski@baks.com.pl tel.: +48 22 710 81 96, +48 667 944 952 – zástupca vedúceho oddelenia fotovoltiky
radoslaw.kramek@baks.com.pl tel.: +48 22 710 81 96 – technický poradca
adam.wojciak@baks.com.pl tel.: +48 22 710 81 23 – technický poradca



3. Zoznam prvkov konštrukcie DP-DTHBS-WZ

No	Názov	Symbol výrobku	Účel v konštrukcii
1	Spodný profil	PDTSWZMC	Nosný profil
2	Horný profil	PGTSWZMC	Podpera panela
3	Krajná svorka KLIK	BUFF...	Krajná svorka panelov
4	Stredná svorka KLIK	PUFK	Stredná svorka panelov
5	Sada skrutiek	SKKM8x12E	Spojenie spodného a horného profilu
7	Oceľová montážna doska	SPM1	Lepená doska
8	Podložka C-profilu s antivibračnou gumou	PC100J	Zabraňuje tlaku koncov oceľových profilov na na strešný plášť

Tabuľka 1 Prehľad prvkov konštrukcie

4. Montáž konštrukcie typu DP-DTHWS-WZ (montáž za kratšiu stranu panela)

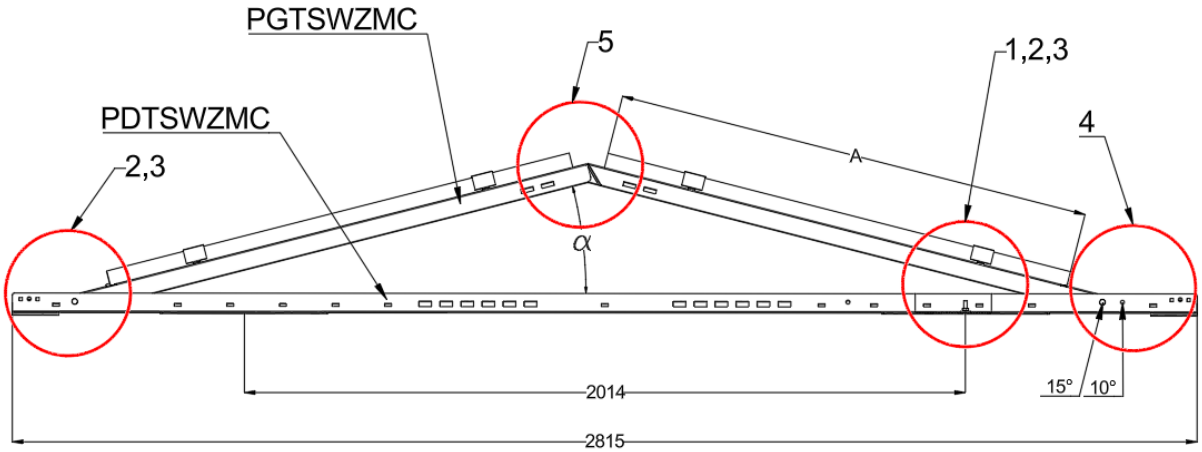
Rozmery A a B (rozmer B = dĺžka modulu + 20 mm) závisia od veľkosti montovaných modulov. Určia sa skúšobným osadením modulu na namontované profily PDTSWZMC a PGTSWZMC.

Najväčší modul, ktorý možno správne namontovať na konštrukciu DP-DTHWS-WZ za kratšiu stranu panela: dĺžka 2100 mm × šírka 1150 mm (overte u výrobcu modulov)

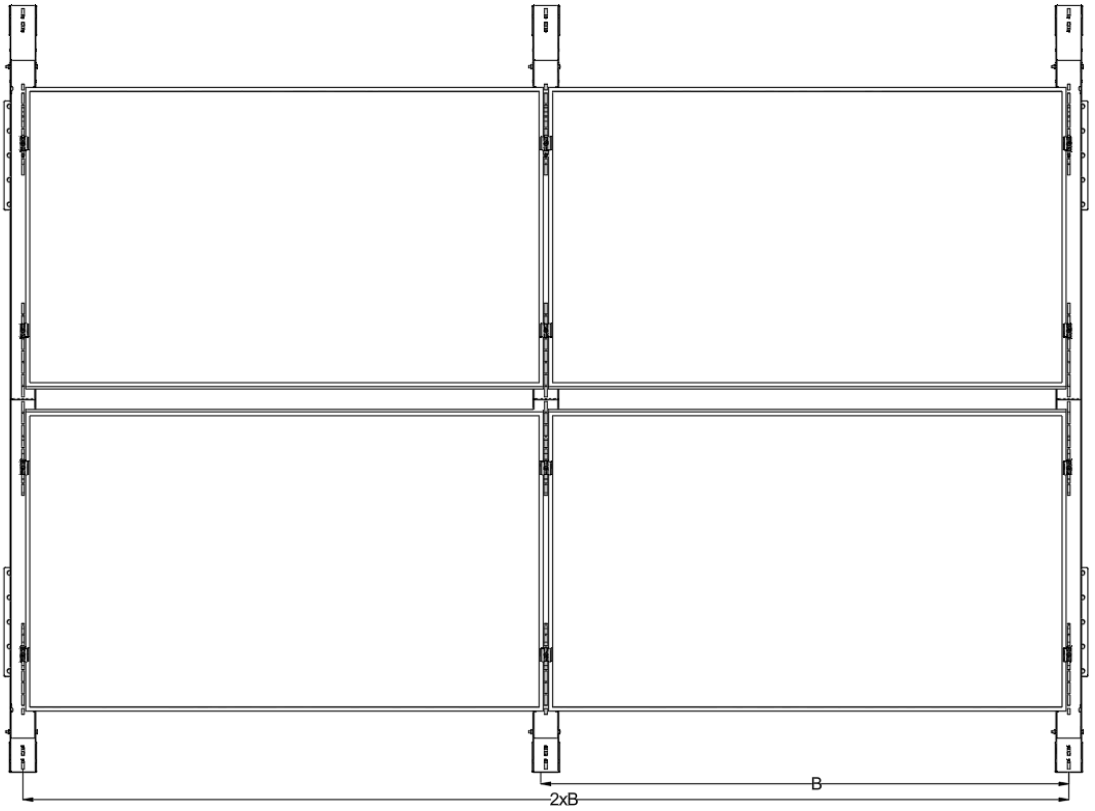
BAKS - KAZIMIERZ SIELSKI ul. Jagodne 5, 05-480 Karczew NIP: 5320102041 Regon: 008278930

Internet: www.baks.com.pl
E-mail: baks@baks.com.pl
Tel. 22 710 81 00

Voľbou montážneho otvoru v podložke PDTSWZMC nastavíte uhol konštrukcie podľa obr. 1



Obr. 1.



Obr. 2.

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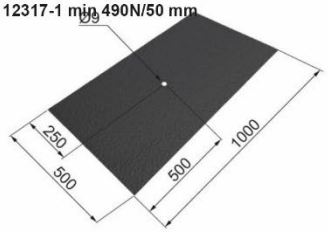
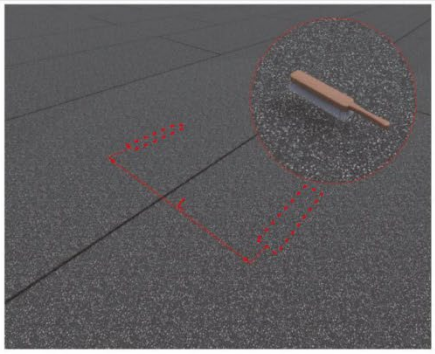
Internet: www.baks.com.pl
E-mail: baks@baks.com.pl
Tel. 22 710 81 00

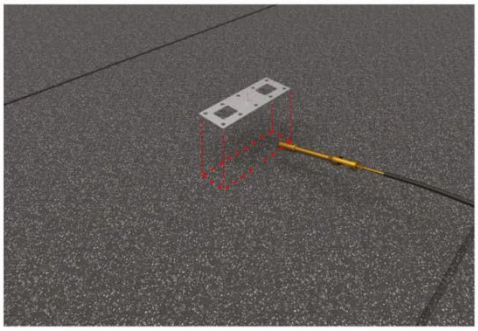
Assembly instructions for SPM1 Steel Fixing Plate to roofing felt
Note:
Requirements of the roofing felt to be used:
1) EN 12310-1 min 145N
2) EN 12311-1 min 290N/50 mm
3) EN 12316-1 min 120N/50 mm
4) EN 12317-1 min 490N/50 mm



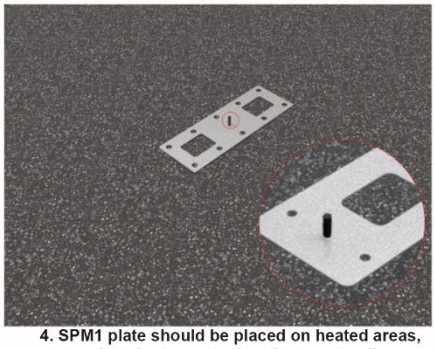
1. Before starting to inSteell the SPM1 plates, cut out a fragment of roofing felt with minimum dimensions of 500 x 1000 mm, then cut out holes with a diameter of Ø9 mm in the locations of screws



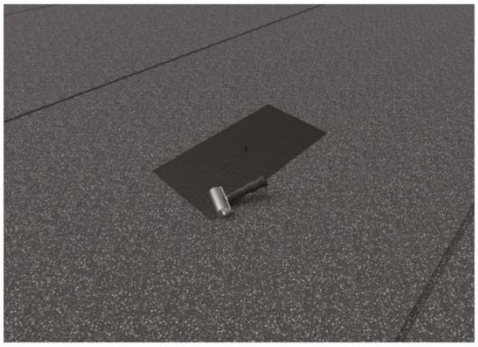
2. Measure the distance between the SPM1 plates, mark the points and then use a wire brush to clean the 500 x 1000 mm area of the roofing felt on the roof



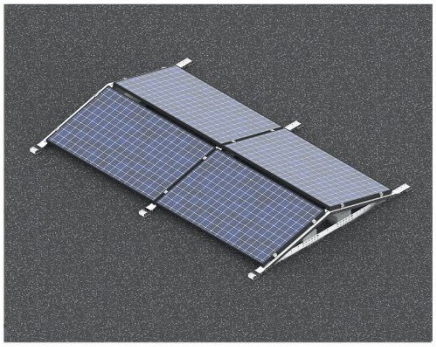
3. On the designated area heat the surface in the size of a plate or slightly larger



4. SPM1 plate should be placed on heated areas, pressed against prepared surface, protruding threads should be secured with NOP50 protection cap



5. Warm up the prepared roofing felt, cover the plate with it and then press it with a roofing roller in the locations of the holes
6. Warm up the side of the roofing felt and the surface and at the same time press the roofing felt with a roofing roller, repeat the operation for each side until the plate is fully fixed to the roof surface



7. Correctly installed structure using SPM1 plate and DP-DTHWS-WZ mounting system

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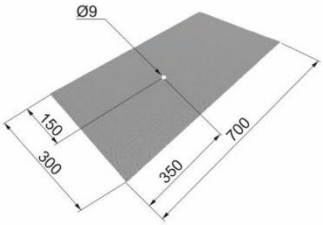
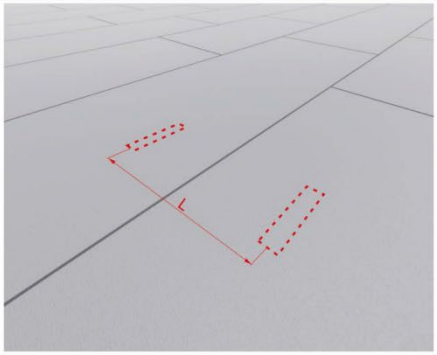
Internet: www.baks.com.pl
E-mail: baks@baks.com.pl
Tel. 22 710 81 00

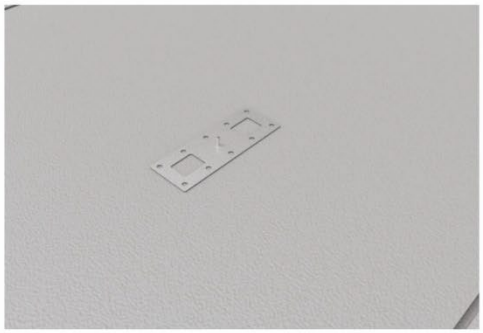
Assembly instructions for SPM1 Steel Fixing Plate to membrane
Note: Requirements of the membrane to be used: PVC, ECB, EPO min 1.2 mm thick:
1) EN 12310-2 min 105N 2) EN 12311-2 min 505N/50 mm
3) EN 12316-2 min 145N/50 mm 4) EN 12317-2 min 445N/50 mm



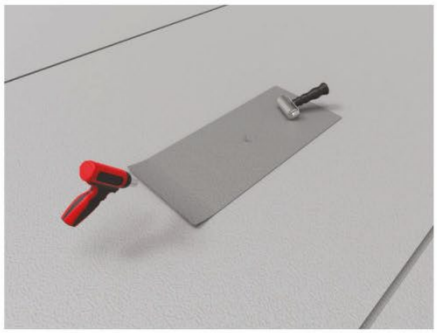
1. Before starting to inSteell the SPM1 plates, cut out a fragment of membrane with minimum dimensions of 300 x 1000 mm, then cut out holes with a diameter of Ø9 mm in the locations of screws, finally round the corners of the membrane



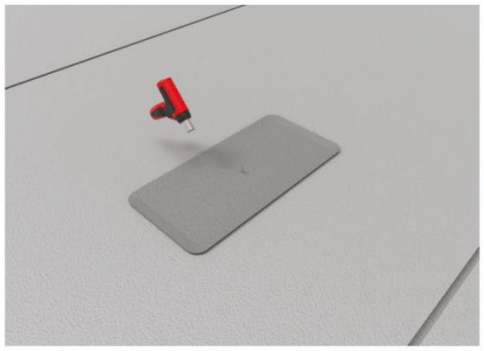
2. Measure the distance between the SPM1 plates, then mark the points



3. Place the SPM1 plate on the designated place



4. Cover the SPM1 plate with the prepared membrane and start the installation with a manual welding machine. Initially weld an hole of 60 x 80 mm, after proper heating press the membrane with a roofing roller. Repeat for the remaining holes



5. Once the holes are welded, weld all sides around the SPM1 plate
6. The SPM1 plate glued to the membrane is a basis for a structure for PV Installations



7. Correctly installed structure using SPM1 plate and DP-DTHWS-WZ mounting system

BAKS - KAZIMIERZ SIELSKI ul. Jagodne 5, 05-480 Karczew NIP: 5320102041 Regon: 008278930

Internet: www.baks.com.pl
E-mail: baks@baks.com.pl
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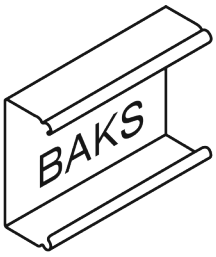

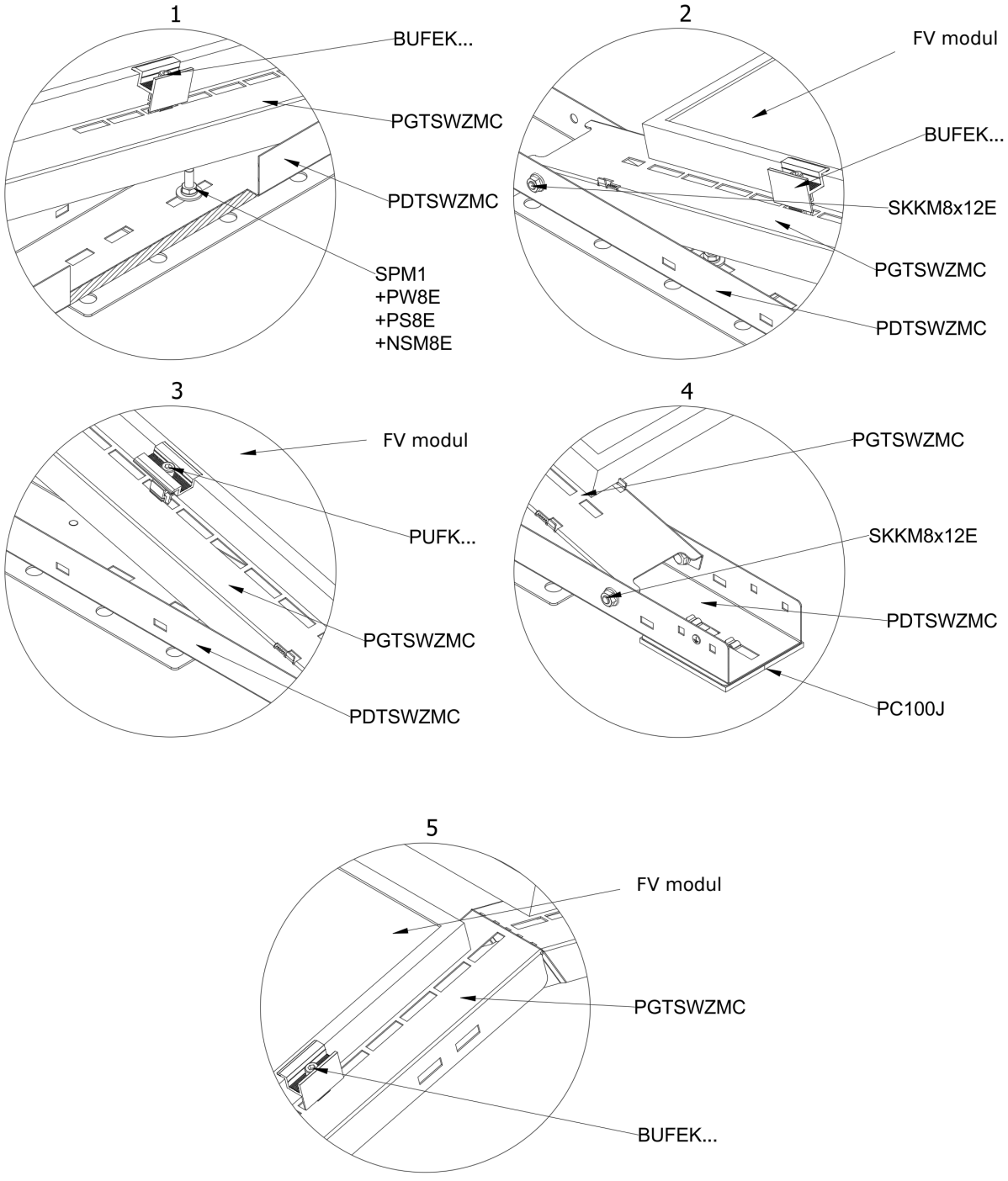

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NÁVOD NA MONTÁŽ KONŠTRUKCIE DP-DTHWS-WZ

(montáž za dlhšiu stranu panela)

Výrobca:

BAKS

ul. Jagodne 5

05-480 Karczew

Poľsko

Oceľová konštrukcia na plochú strechu vo zváranej verzii.

Montáž FV panelov vo vodorovnom usporiadaní (na ležato)

za dlhšiu stranu panela.



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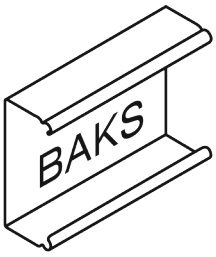

5. Potrebné náradie na montáž konštrukcie

• Imbusový kľúč veľkosti 6
• Aku skrutkovač s reguláciou otáčok a krútiaceho momentu
• Imbusový bit veľkosti 6 do skrutkovača
• Očkovo-vidlicové kľúče 13 mm
• Račňa s nástrčnými kľúčmi 13 mm
• Predĺženie 100–120 mm pre nástrčné kľúče
• Gumené kladivo
• Momentový kľúč, rozsah 10–30 Nm

6. Všeobecné informácie

• Konštrukciu možno použiť vo veterných a snehových oblastiach podľa noriem STN EN 1991-1-3 a STN EN 1991-1-4
• Pred montážou konštrukcie si prečítajte návod na montáž fotovoltických panelov
• Upínacie svorky BUFEK... uťahujte momentom 12–14 Nm (overte v návode výrobcu modulov)
• Kontakt na technickú podporu BAKS – po – pi 7 a.m. - 3 p.m.
marek.cedrowski@baks.com.pl tel.: +48 22 710 81 96, +48 667 944 952 – zástupca vedúceho oddelenia fotovoltiky
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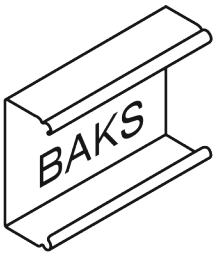
adam.wojciak@baks.com.pl tel.: +48 22 710 81 23 – technický poradca



7. Zoznam prvkov konštrukcie DP-DTHBS-WZ

No	Názov	Symbol výrobku	Účel v konštrukcii
1	Spodný profil	PDTSWZMC	Nosný profil
2	Horný profil	PGTSWZMC	Podpera panela
3	Krajná svorka KLIK	BUFF...	Krajná svorka panelov
5	Sada skrutiek	SKKM8x12E	Spojenie spodného a horného profilu
8	Podložka C-profilu s antivibračnou gumou	PC100J	Zabraňuje tlaku koncov oceľových profilov na na strešný plášť
7	Oceľová montážna doska	SPM1	Lepená doska

Tabuľka 2 Prehľad prvkov konštrukcie

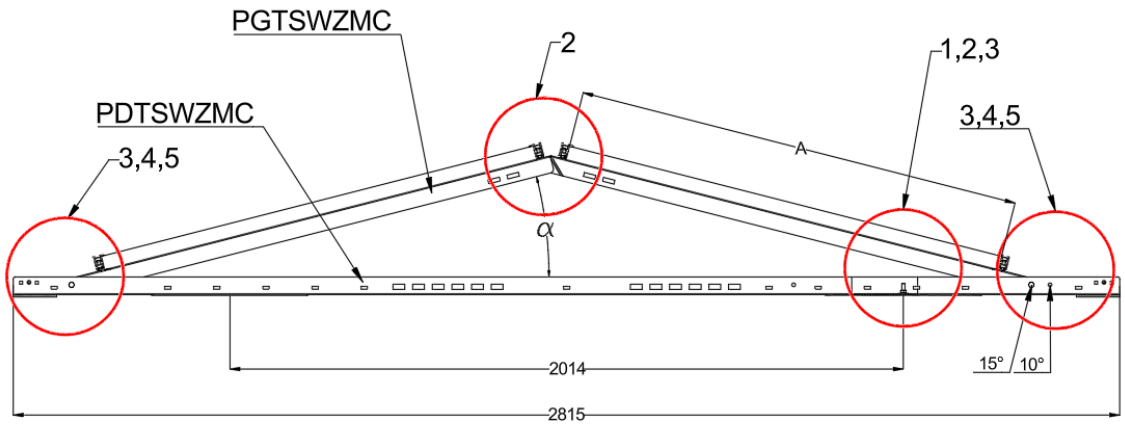
8. Montáž konštrukcie typu DP-DTHWS-WZ (montáž za dlhšiu stranu panela)

Rozmery A, B, C a D (rozmer D je montážna vzdialenosť svorky panela podľa návodu výrobcu modulov). Rozmer B je
výsledný rozmer podľa dĺžky modulu.

Rozmer A je šírka panela (najväčšia montovateľná šírka panela
je 1150 mm).
Rozmer D je dĺžka modulu.

Voľbou montážneho otvoru v podložke PDTSWZMC nastavíte uhol konštrukcie podľa obr. 1

Pozor: Na zachovanie elektrickej spojitosti treba urobiť vyrovnávacie prepojenie spojením podložiek PDTSWZMC navzájom pri každom FV paneli podľa obr. 2



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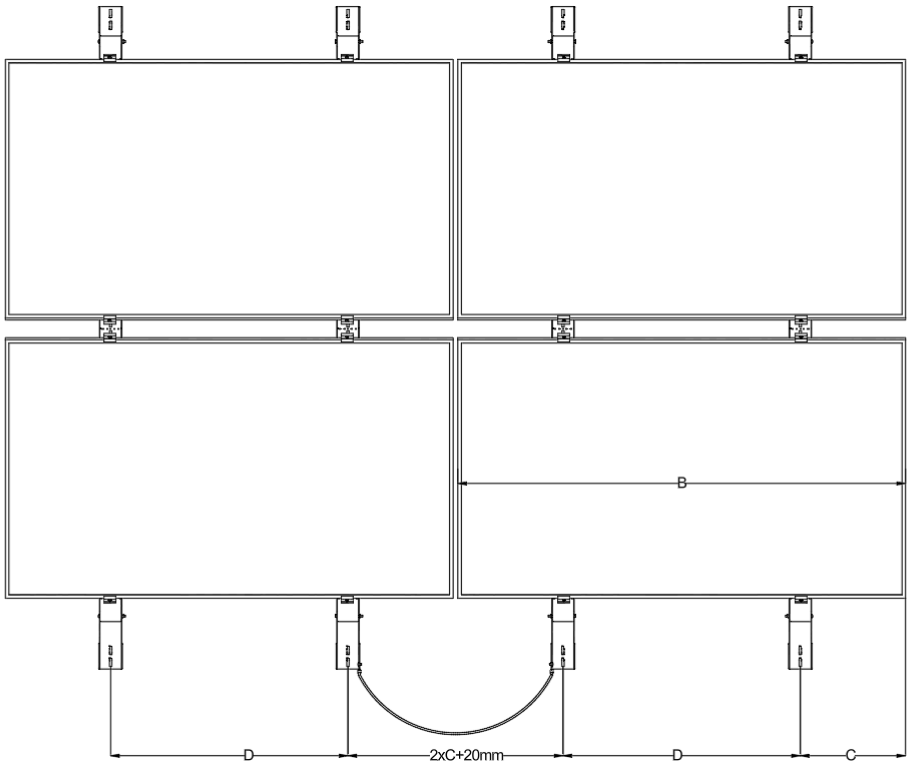

Obr. 2.

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Assembly instructions for SPM1 Steel Fixing Plate to roofing felt
Note:
Requirements of the roofing felt to be used:
1) EN 12310-1 min 145N
2) EN 12311-1 min 290N/50 mm
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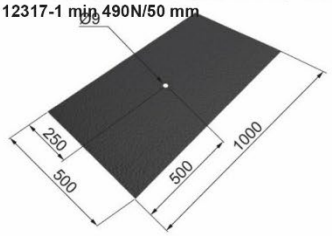
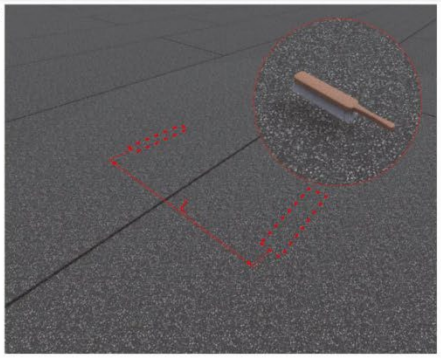
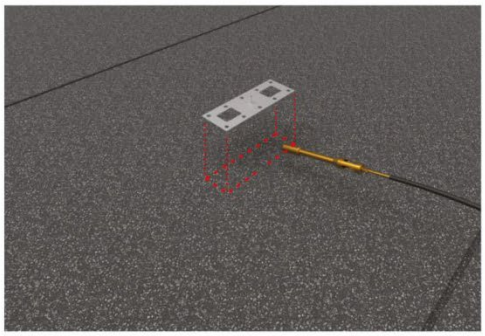


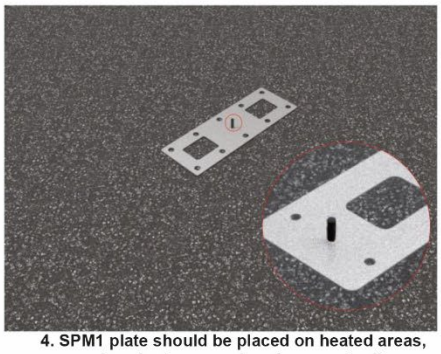
1. Before starting to inSteell the SPM1 plates, cut out a fragment of roofing felt with minimum dimensions of 500 x 1000 mm, then cut out holes with a diameter of Ø9 mm in the locations of screws



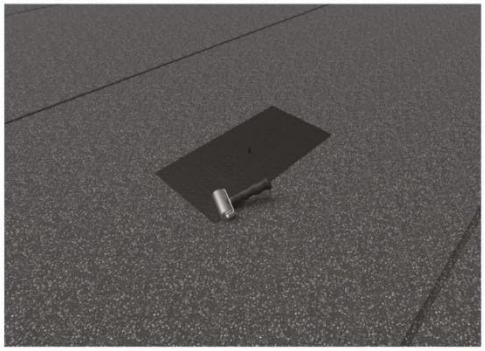
2. Measure the distance between the SPM1 plates, mark the points and then use a wire brush to clean the 500 x 1000 mm area of the roofing felt on the roof



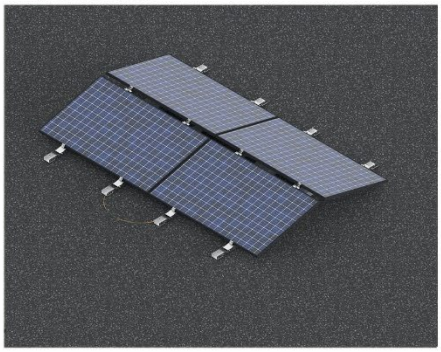
3. On the designated area heat the surface in the size of a plate or slightly larger



4. SPM1 plate should be placed on heated areas, pressed against prepared surface, protruding threads should be secured with NOP50 protection cap



5. Warm up the prepared roofing felt, cover the plate with it and then press it with a roofing roller in the locations of the holes
6. Warm up the side of the roofing felt and the surface and at the same time press the roofing felt with a roofing roller, repeat the operation for each side until the plate is fully fixed to the roof surface



7. Correctly installed structure using SPM1 plate and DP-DTHWS-WZ mounting system

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Note: Requirements of the membrane to be used: PVC, ECB, EPO min 1.2 mm thick:
1) EN 12310-2 min 105N **2) EN 12311-2 min 505N/50 mm**
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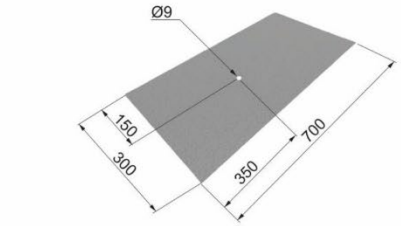
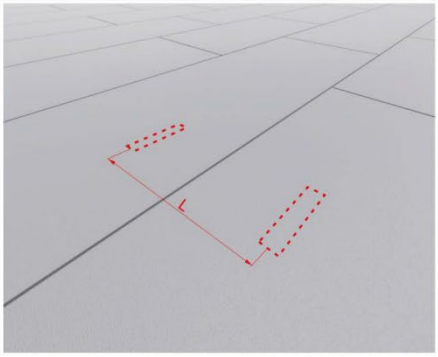
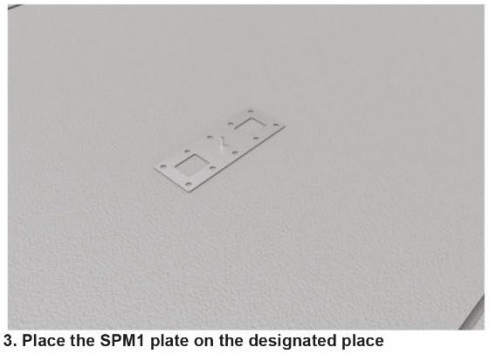


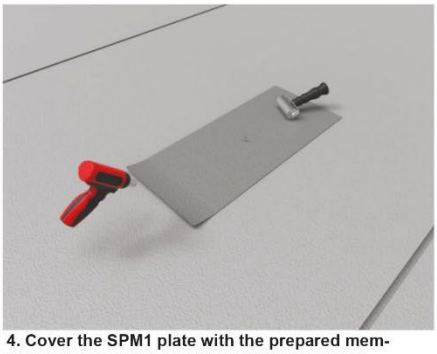
1. Before starting to inSteell the SPM1 plates, cut out a fragment of membrane with minimum dimensions of 300 x 700 mm, then cut out holes with a diameter of Ø9 mm in the locations of screws, finally round the corners of the membrane



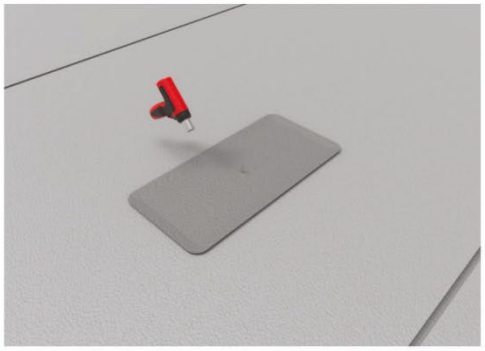
2. Measure the distance between the SPM1 plates, then mark the points



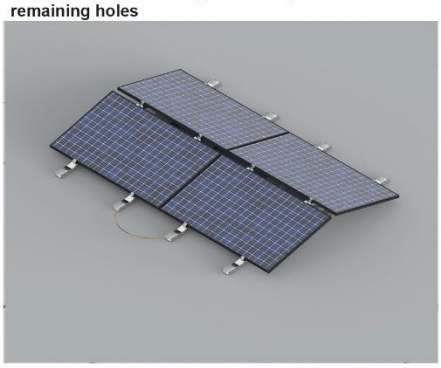
3. Place the SPM1 plate on the designated place



4. Cover the SPM1 plate with the prepared membrane and start the installation with a manual welding machine. Initially weld an hole of 60 x 80 mm, after proper heating press the membrane with a roofing roller. Repeat for the remaining holes



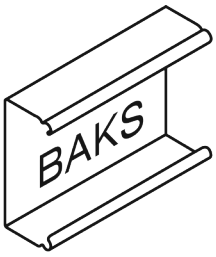
5. Once the holes are welded, weld all sides around the SPM1 plate
6. The SPM1 plate glued to the membrane is a basis for a structure for PV Installations



7. Correctly installed structure using SPM1 plate and DP-DTHWS-WZ mounting system

BAKS - KAZIMIERZ SIELSKI ul. Jagodne 5, 05-480 Karczew NIP: 5320102041 Regon: 008278930

Internet: www.baks.com.pl
E-mail: baks@baks.com.pl
Tel. 22 710 81 00



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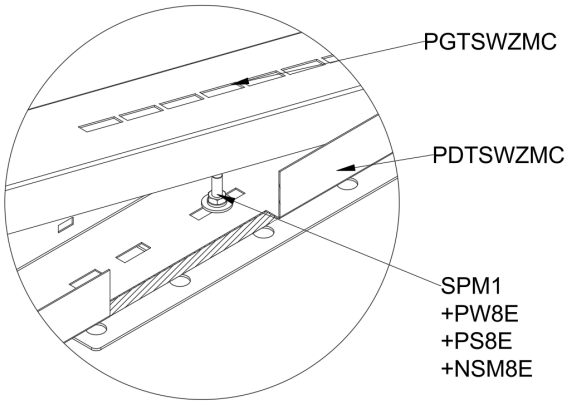

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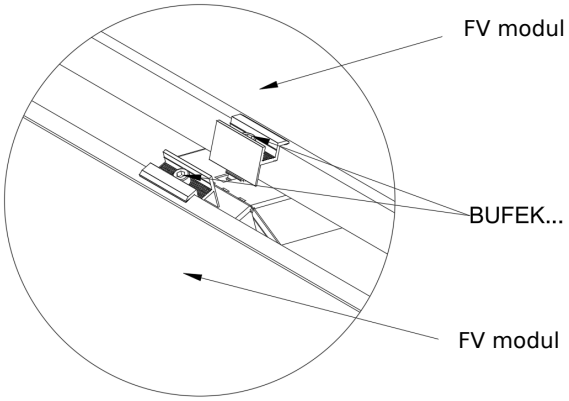

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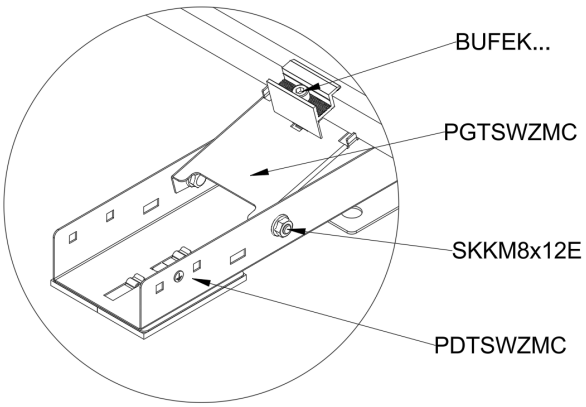

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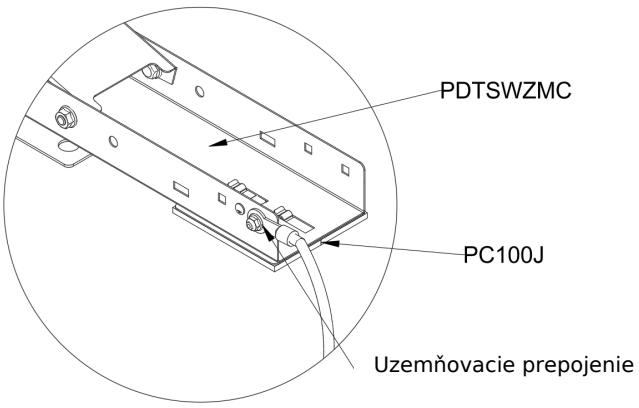

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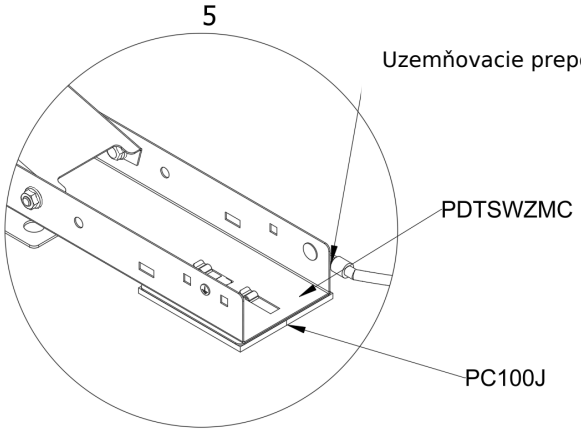

BAKS - KAZIMIERZ SIELSKI ul. Jagodne 5, 05-480 Karczew NIP: 5320102041 Regon: 008278930

Internet: www.baks.com.pl
E-mail: baks@baks.com.pl
Tel. 22 710 81 00