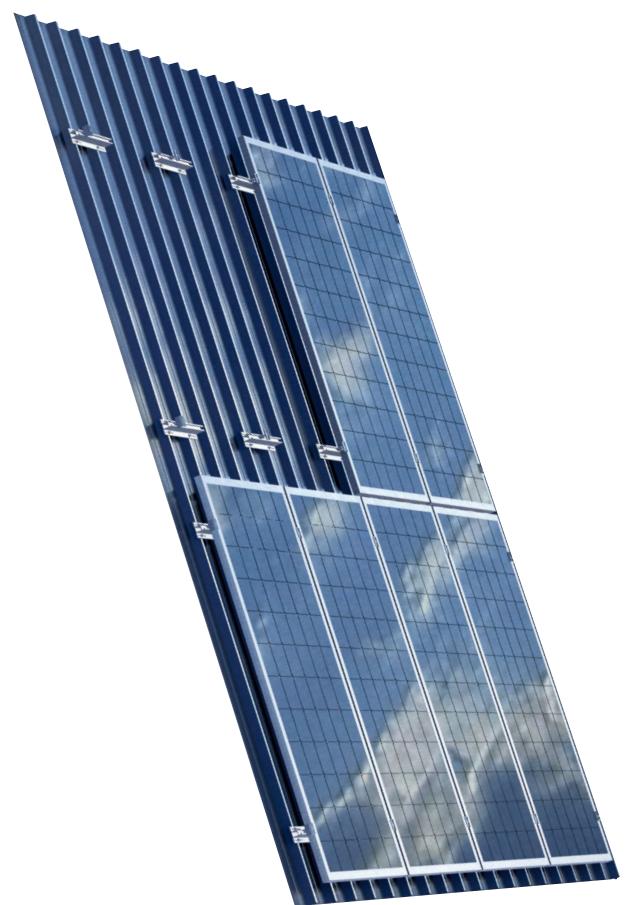


**SOLAR**



**SISTEM PODKONSTRUKCIJA ZA SOLARNE PANELE  
SUBSTRUCTURE SYSTEM FOR SOLAR PANELS**

DESIGNED AND MANUFACTURED BY TEHNO MARKET



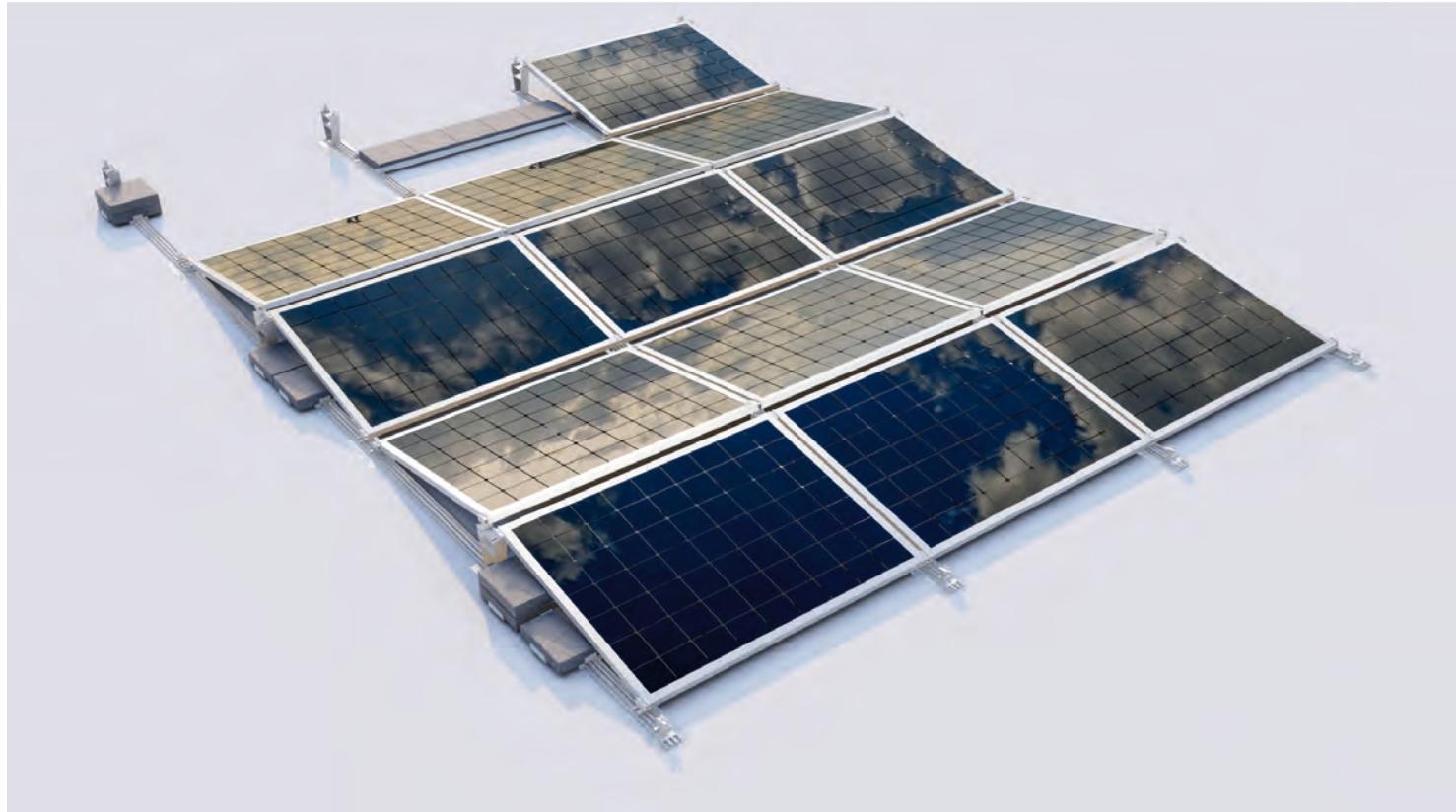


SOLAR

# ENERGIJA SUNCA

Tehnomarket SOLAR sistem podkonstrukcije za solarne panele nudi kompletno, zaokruženo i sistemsко rešenje za instalaciju solarnih panela koje je potpuno skalabilno i pogodno za sve kapacitete od kućnih instalacija do solarnih elektrana velike snage.

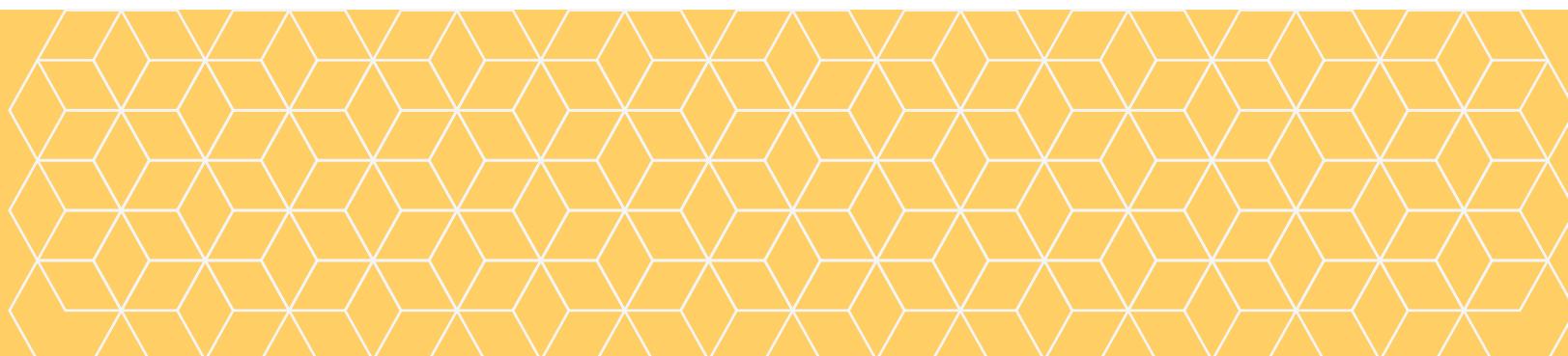
Sistem SOLAR namenjen je montaži na svim tipovima podloga-ravnim i kosim krovovima, vertikalnim zidovima i fasadama, kao i na zemlji. Optimalne dimenzije profila omogućuju montažu pojedinačnih panela velikih dimenzija, uz maksimalno opterećenje od 150kg/m<sup>2</sup>. Podržane su debljine panela od 30 do 40mm, bez ograničenja broja panela ili veličine kompletne instalacije. Profili konstrukcije su sirovi, dok površinska obrada vidnih površina profila može biti plastifikacija po RAL ton karti ili eloksaža.



**SOLAR**

montaža na svim  
tipovima podloga

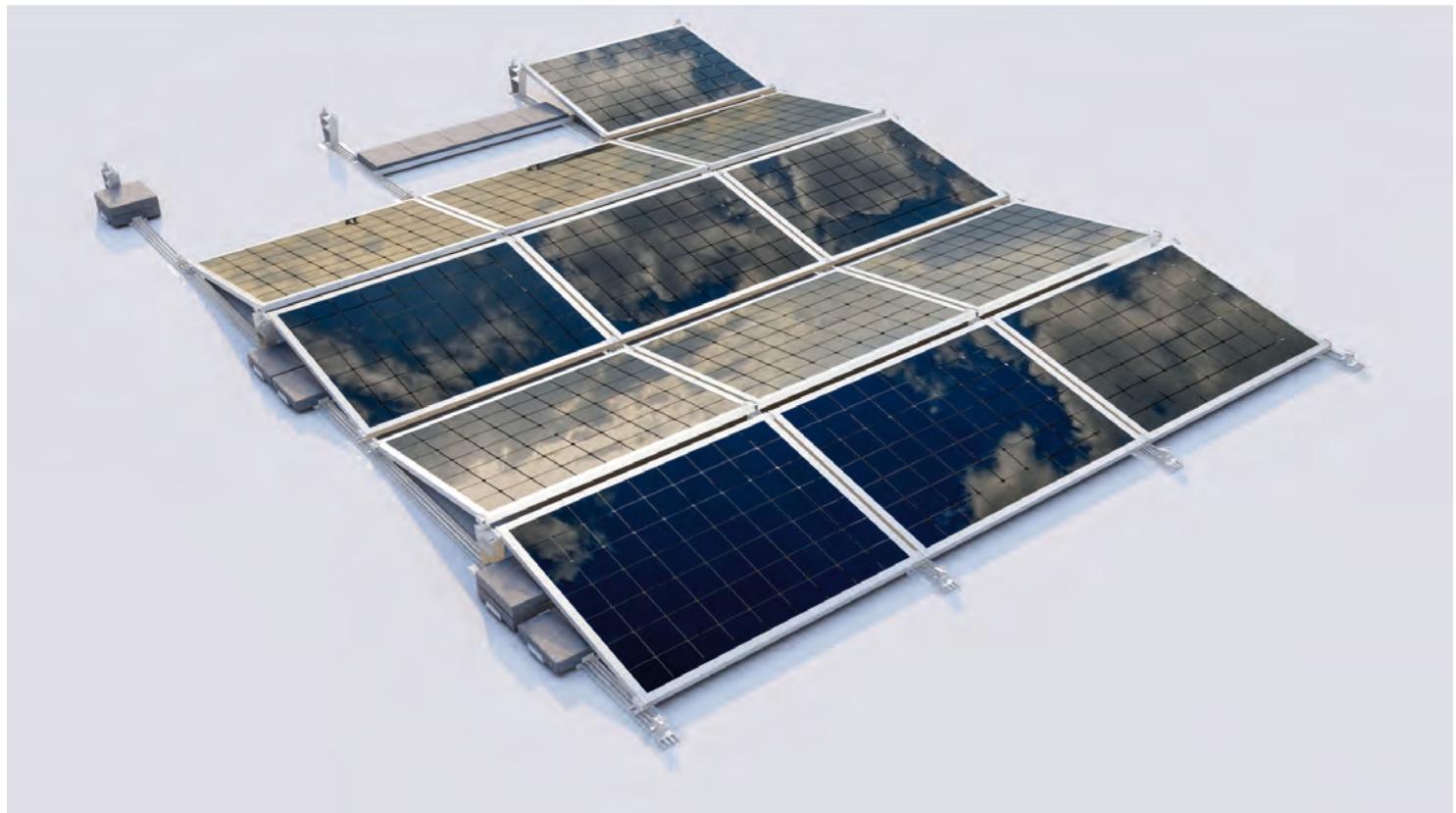
kosi krov   ravan krov   vertikalna fasada   nadstrešnica   tlo



# THE ENERGY OF THE SUN

Tehnomarket SOLAR substructure system for solar panels offers a complete, systemic solution for the installation of solar panels that is fully scalable and suitable for all capacities from home installations to high power solar power plants.

The SOLAR system is intended for installation on all types of substrates - flat and sloping roofs, vertical walls and facades, as well as on the ground. Optimal profile dimensions allow the installation of individual panels of large dimensions, with a maximum load of 150kg/m<sup>2</sup>. Panel thicknesses from 30 to 40 mm are supported, without unlimited number of panels or the size of the complete installation. The construction profiles are raw, while the surface treatment of the visible surfaces of the profiles can be powder coated according to the RAL tone chart or anodizing.



**SOLAR**

installation on all  
types of surfaces

 slanted roof

 flat roof

 vertical facade

 canopy

 ground



Oblast primene:	solarni paneli za proizvodnju električne energije solarni kolektori za zagrevanje vode (izmenjivači toplote)
Mesto primene:	kosi krovovi prekriveni TR limom, termo panelom, falcovanim limom, crepom ili tegolom ravni krovovi pokriveni membranom bez bušenja ugradnja na tlu vertikalne ili kose fasade nadstrešnice

Princip uklapanja elemenata: klik patent, osiguranje vijkom

Princip veze: frikcija

Sila za pritezanje: 14 Nm

Princip kotvanja/ankerisanja: nameskim vijkom na TR lim ili ankerom u beton, balasti na ravnom krovu

Debljina solarnog panela: 30mm - 40mm

Max. dimenzije solarnog panela: 1200x2300mm

Max. opterećenje: 150kg/m<sup>2</sup>

Max. broj panela: bez ograničenja

Max. širina polja: 12.000mm

Max. visina polja: 6.000mm

Min. debljina TR lima: 0,5mm za čelični; 0,6mm za aluminijumski lim

Površinska obrada profila: sirovo, vidni elementi mogu biti eloksirali ili plastificirani prema RAL ton karti

---

Field of application: solar panels for electricity generation  
solar collectors for water heating (heat exchanger)

Place of application: sloping roofs with TR sheet metal, thermal panel, tiles, bitumen shingles, standing seam  
flat roofs covered with membrane without drilling  
installation on the ground  
vertical or sloping facades  
canopies

Principle of element fitting: click patent, screw securing

Connection principle: friction

Tighten with: 14 Nm

Anchoring/anchoring principle: plastic screw on TR sheet or concrete anchor, flat roof ballasts

Solar panel thickness: 30mm - 40mm

Max. solar panel dimensions: 1200x2300mm

Max. load: 150kg/m<sup>2</sup>

Max. number of panels: no limit

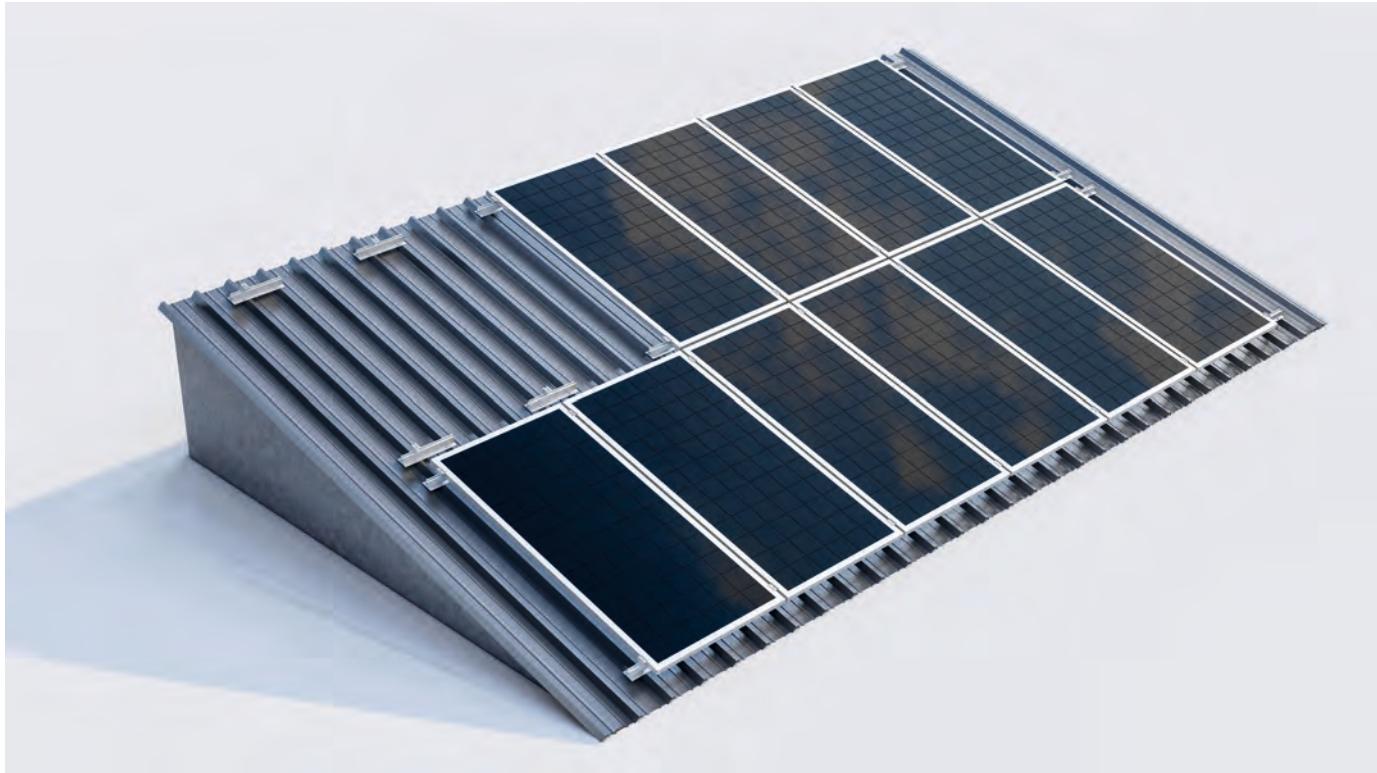
Max. field width: 12,000mm

Max. field height: 6,000mm

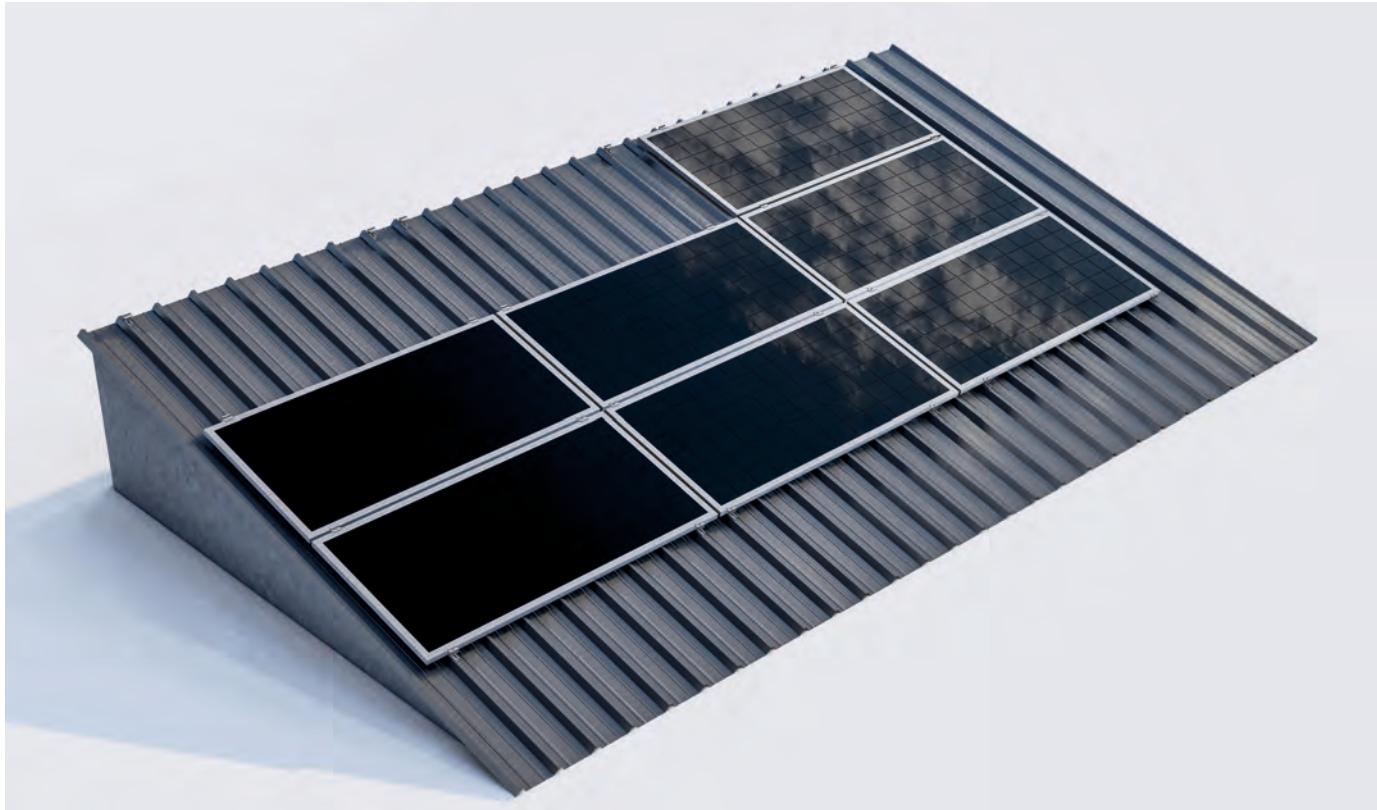
Min. TR sheet thickness: 0.5mm for steel; 0.6mm for aluminum sheet

Profile surface treatment: raw, visible elements can be anodized or powder coated in RAL colors

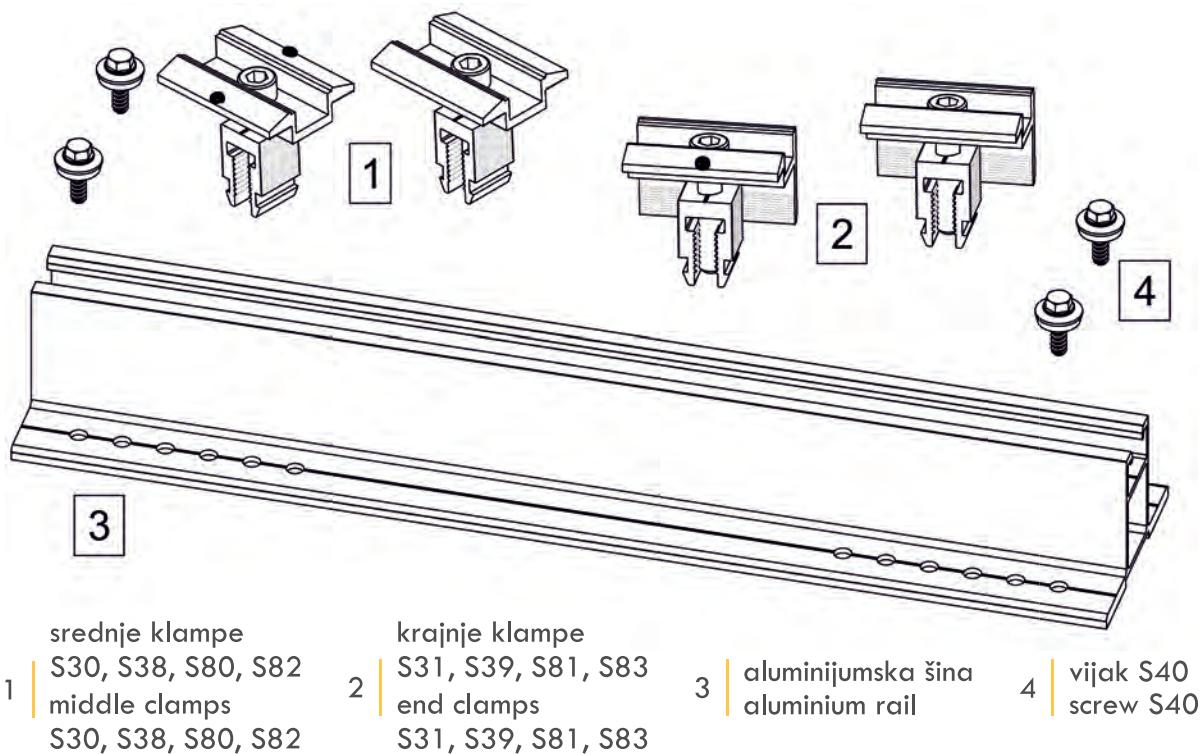
**SOLAR**



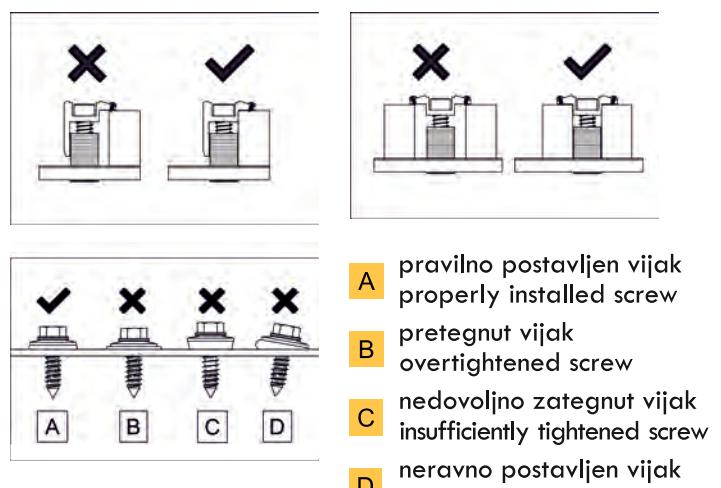
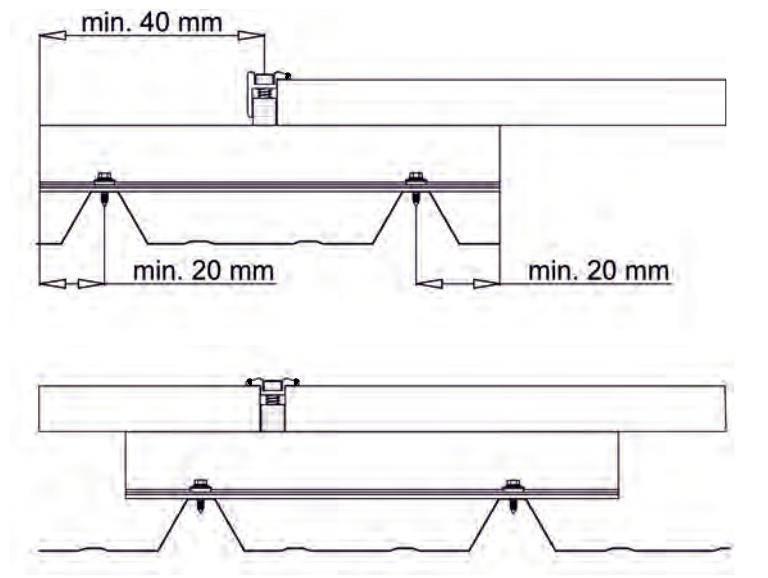
**MONTAŽA NA KOSOM KROVU SA TRAPEZASTIM LIMOM**  
**SLANTING ROOF INSTALLATION WITH CORRUGATED PANELS**



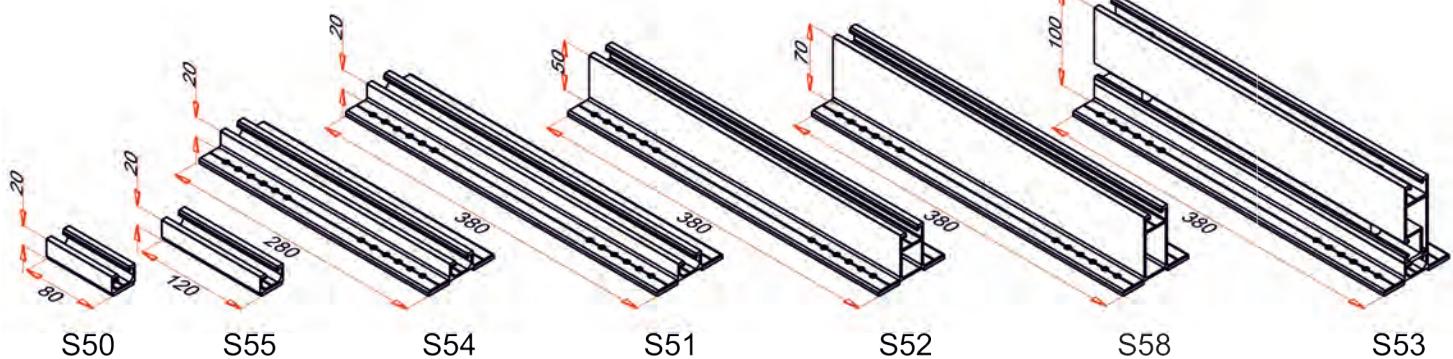
OSNOVNI ELEMENTI SISTEMA ZA KOSE KROVOVE SA TR LIMOM  
 ESSENTIAL ELEMENTS FOR SLOPED ROOF SYSTEMS WITH CORRUGATED PANELS

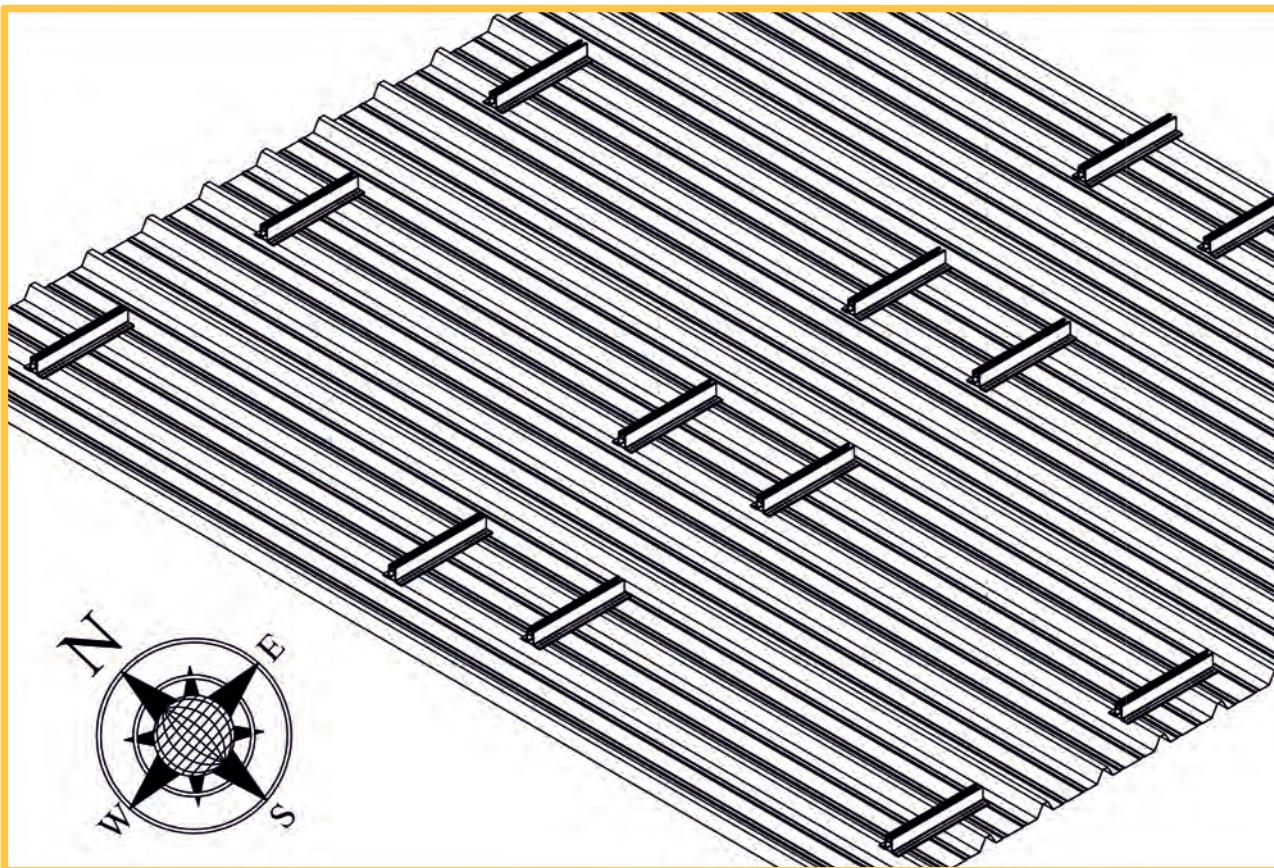


PRAVILA MONTAŽE / INSTALLATION PRINCIPLES

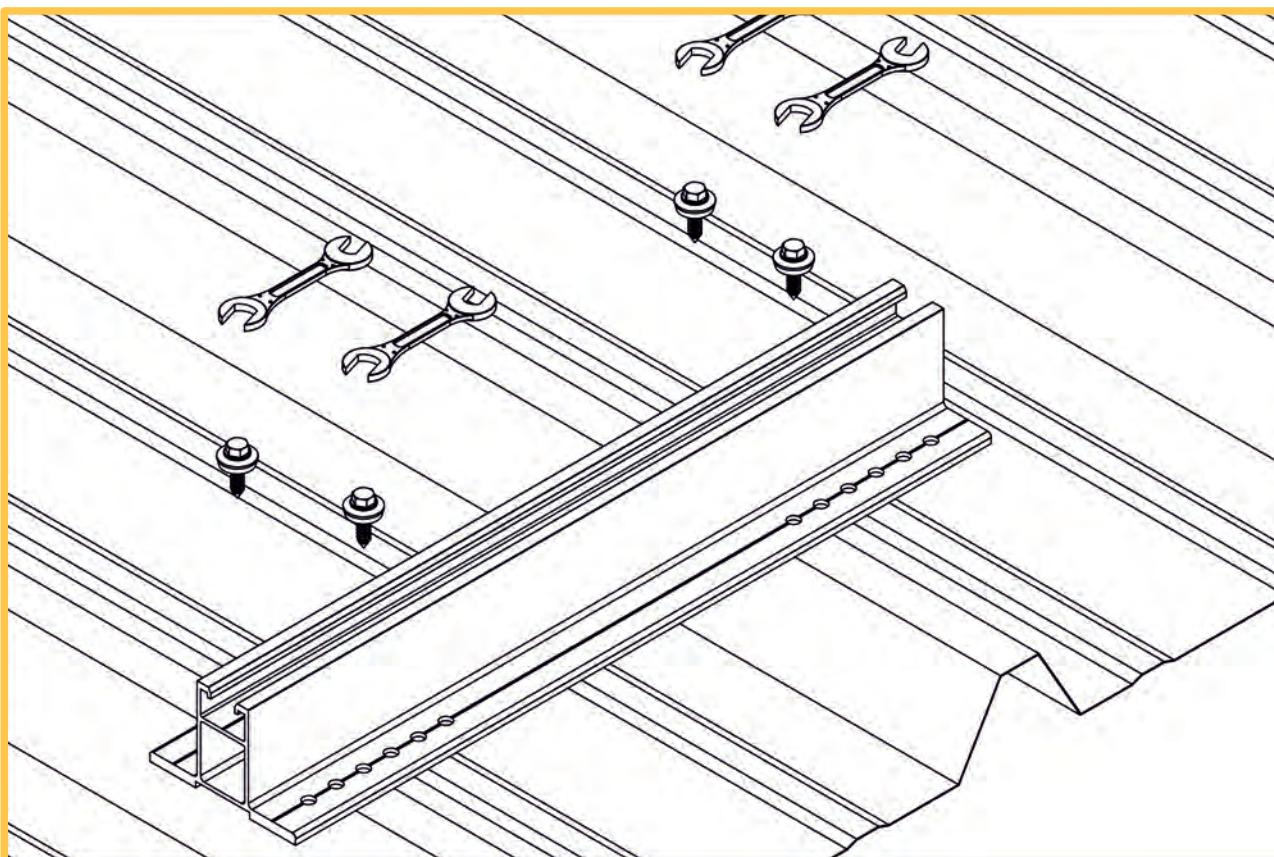


veličine aluminijumskih šina / aluminum rail sizes

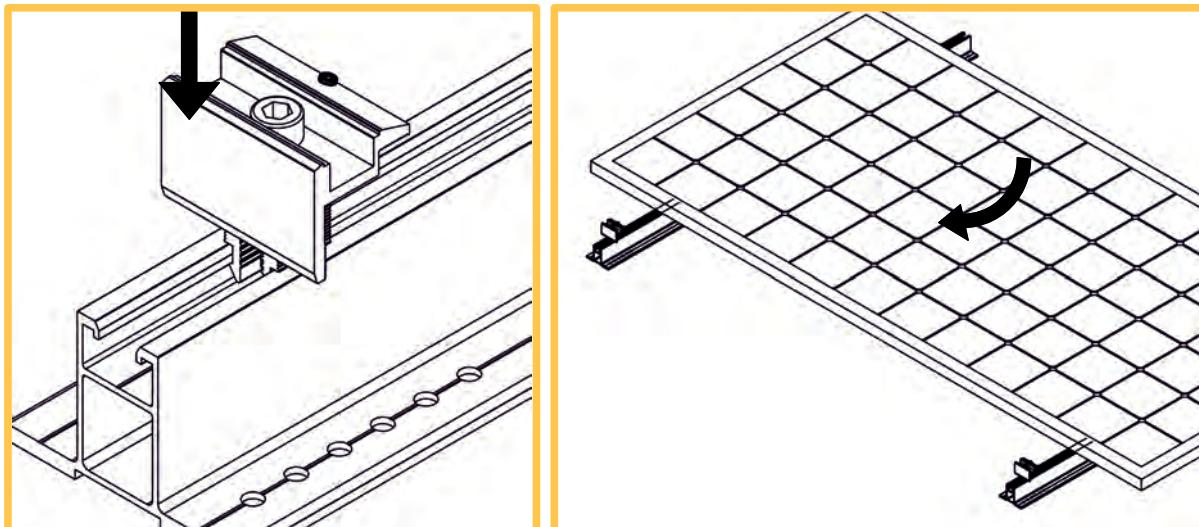




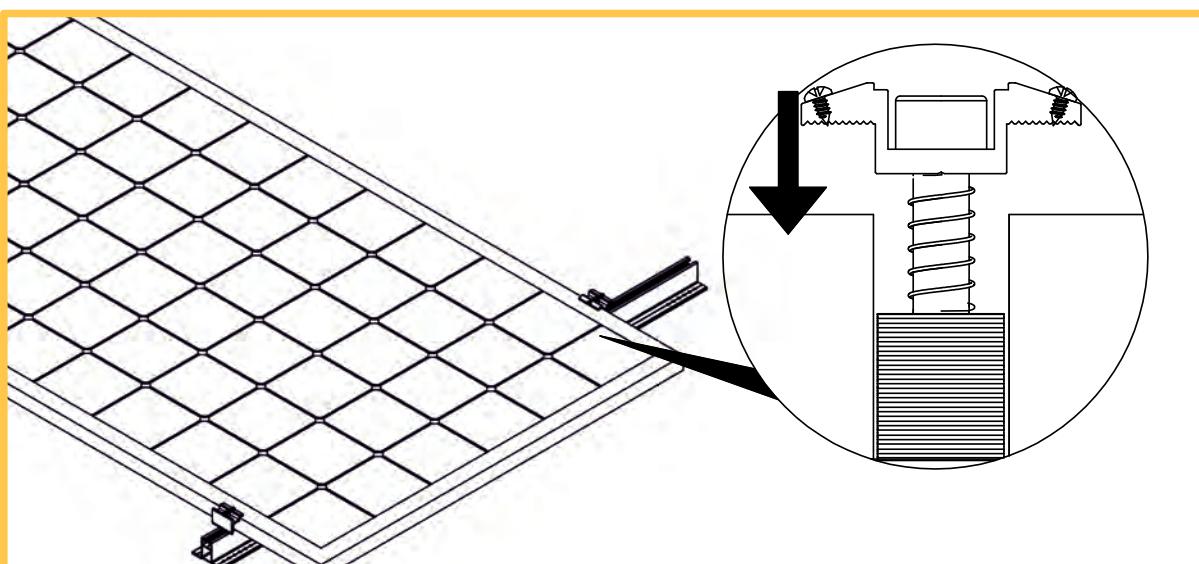
1. raspored nosača na kosom krovu / the layout of the rails on the sloping roof



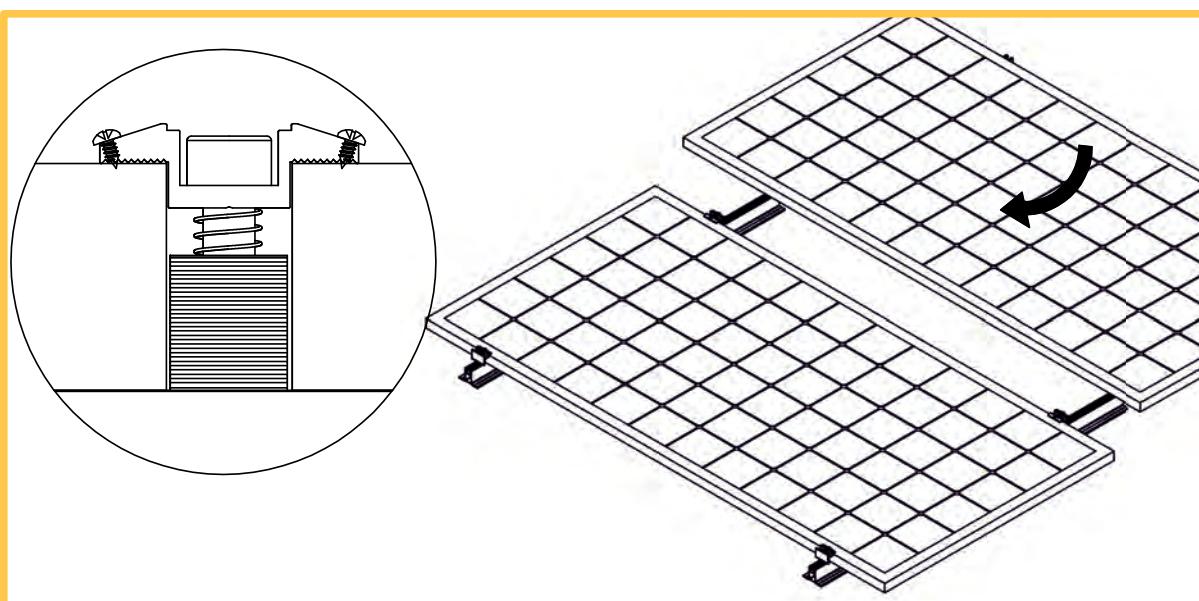
2. učvrstiti aluminijumske šine vijkom S40 / fasten the aluminum rails with a S40 screw



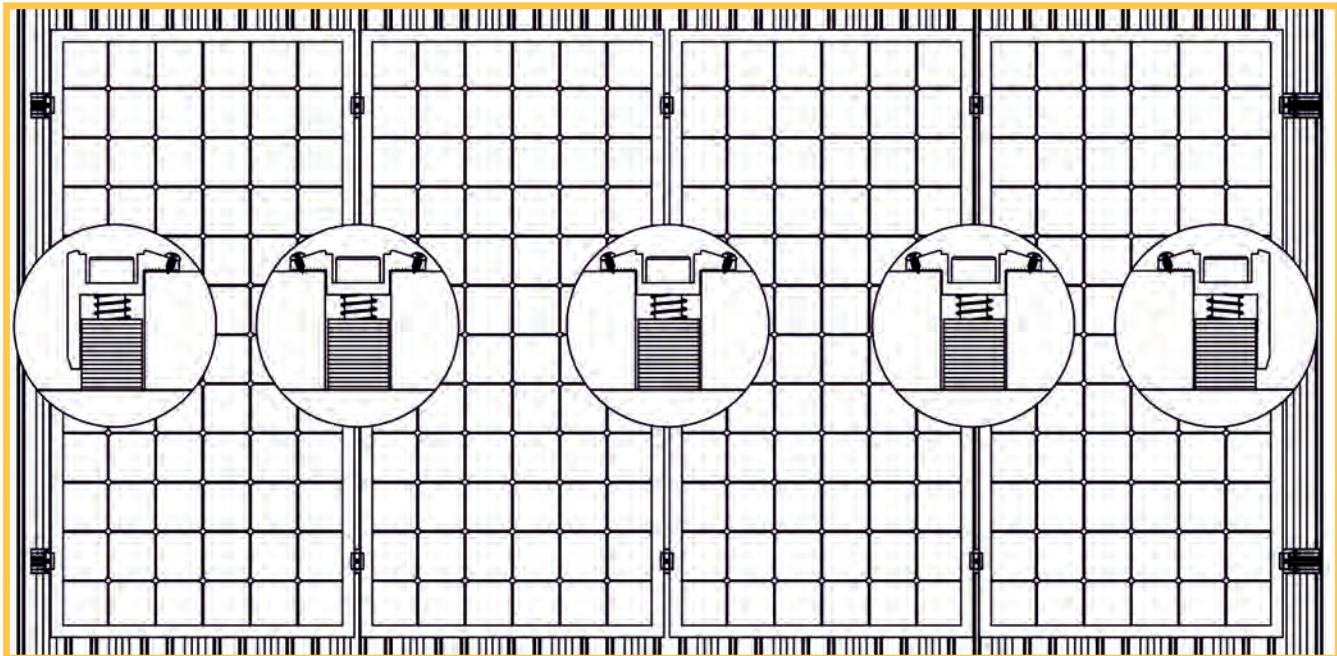
3. kliknuti krajnje klampe u šine i ubaciti prvi panel / click the end clamps on the rails and insert the first panel



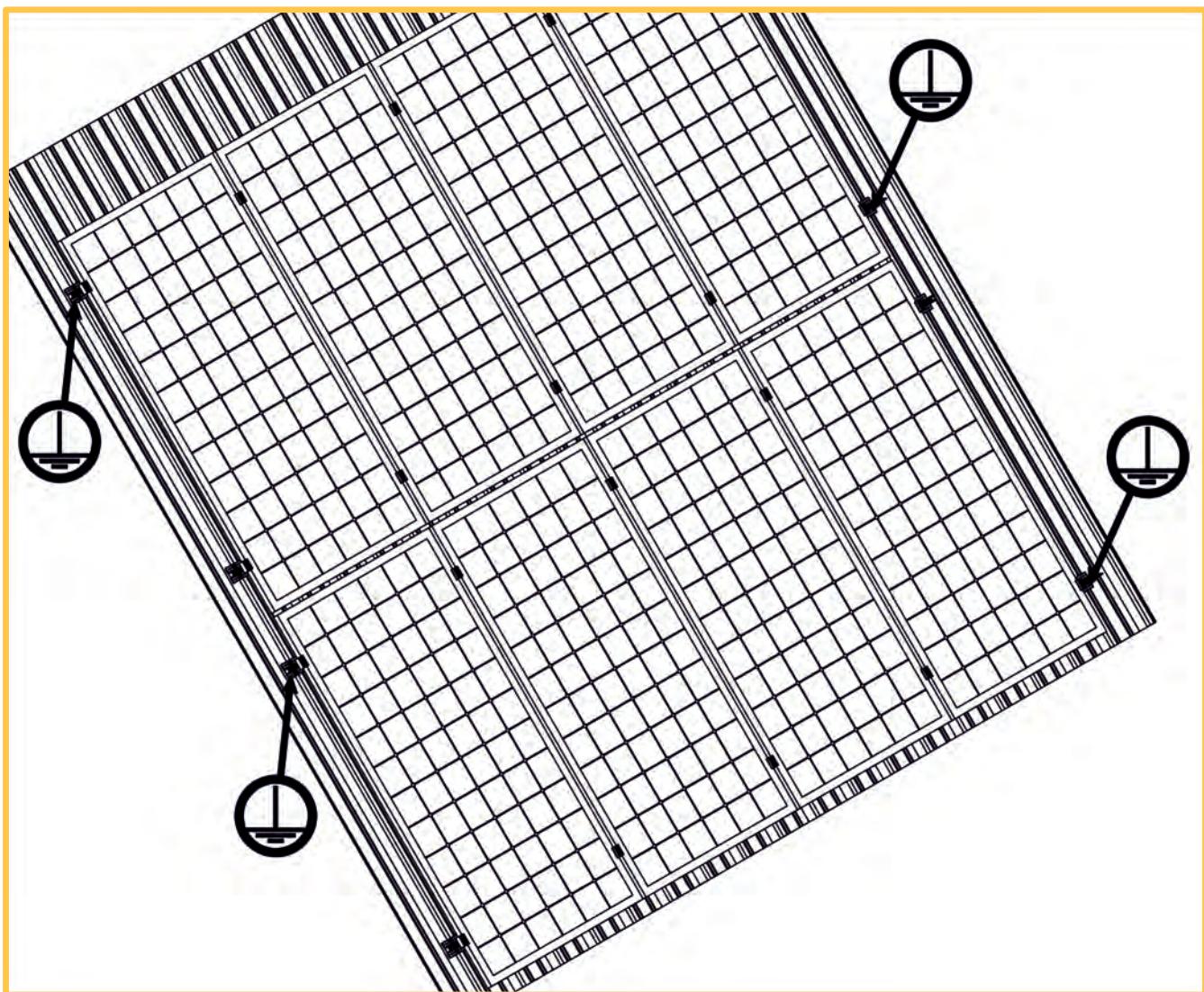
4. pre ubacivanja sledećeg panela staviti srednju klampu / place the middle clamp before inserting the next panel



5. nakon postavljanja panela, klampe pritegnuti silom od 14Nm / after installing the panel, tighten the clamps with a force of 14Nm



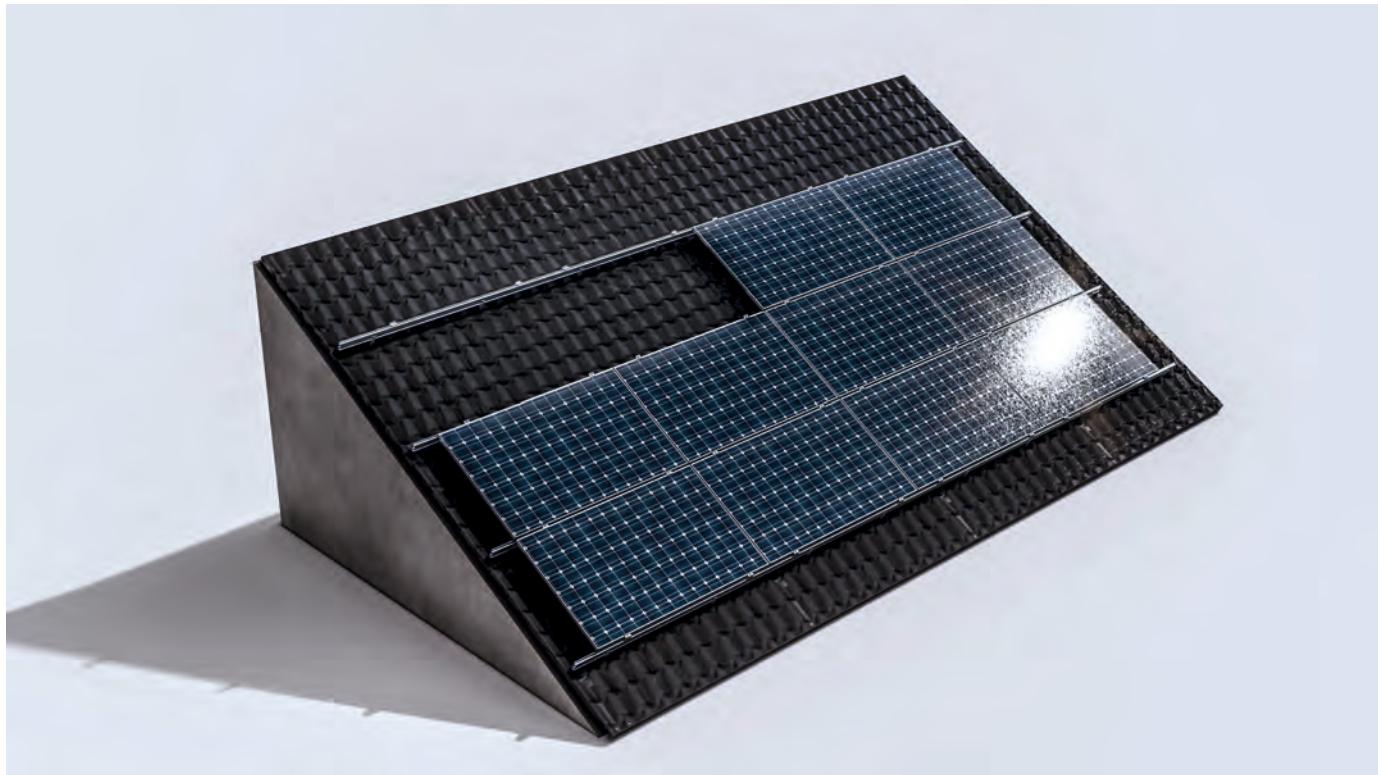
princip pozicioniranja klampi / clamp positioning principle



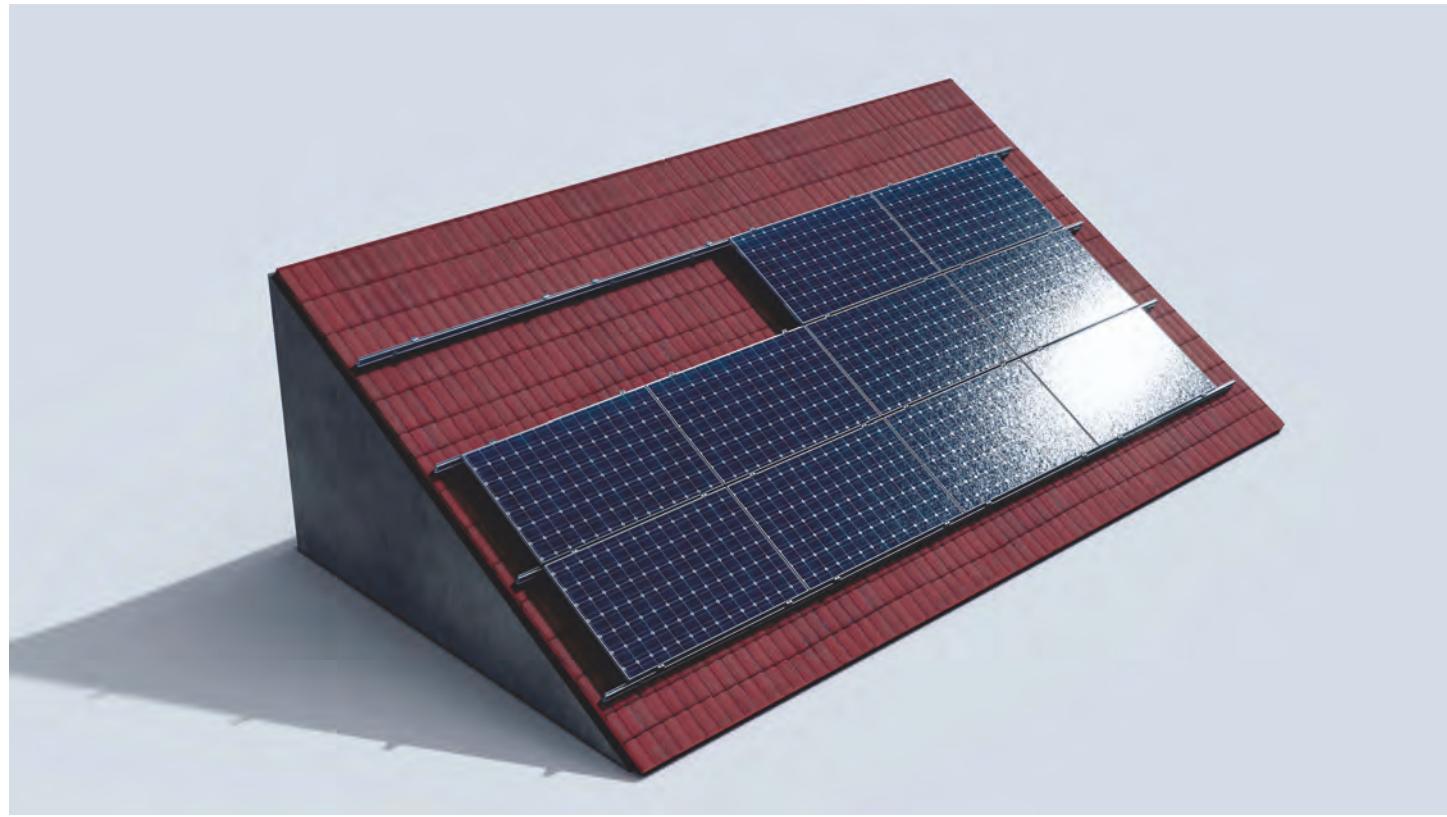
raspored klampi u bloku i uzemljenje / arrangement of clamps in the block and grounding



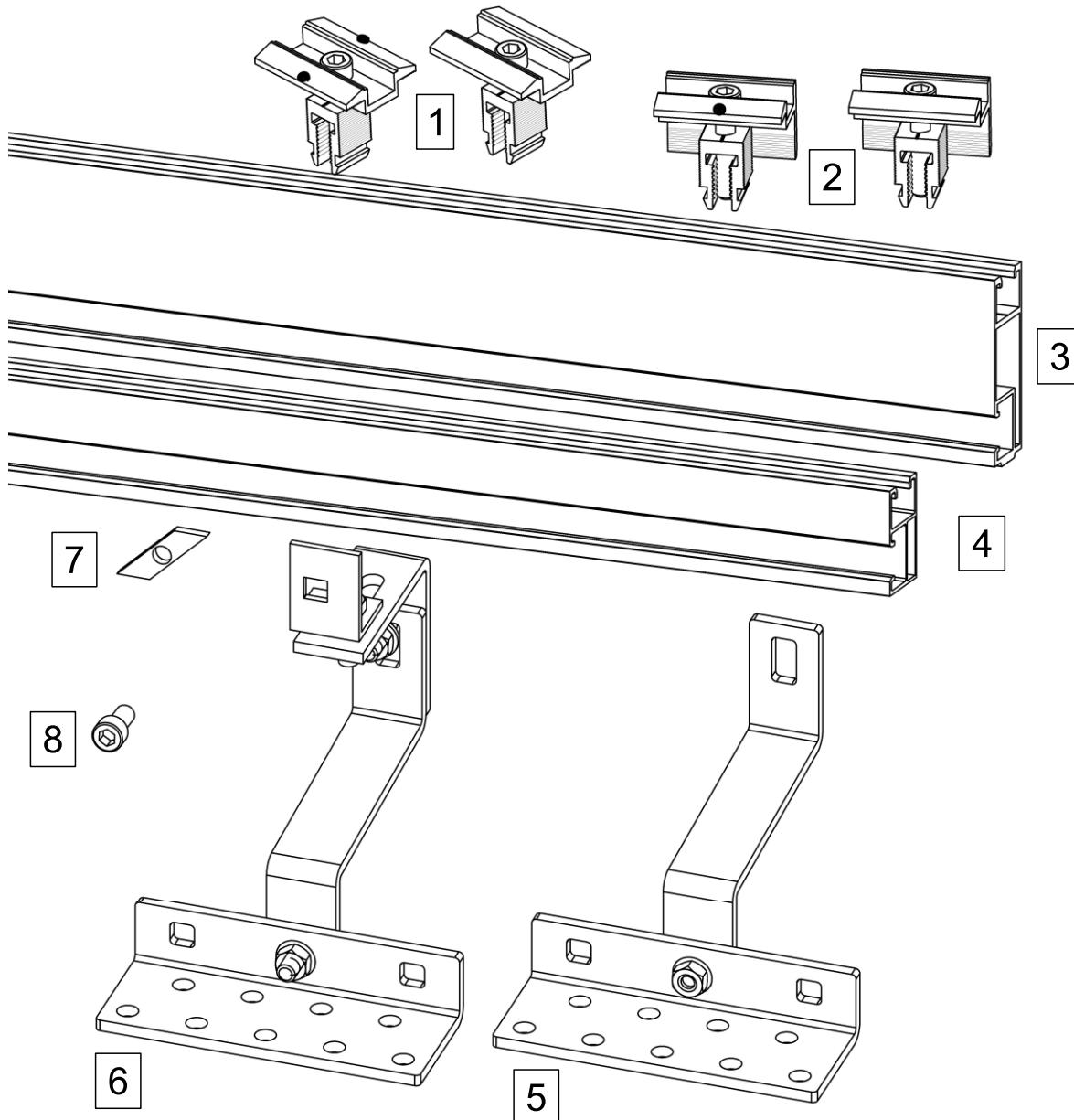
**SOLAR**



MONTAŽA NA KOSOM KROVU SA CREPOM  
TILED SLANTING ROOF INSTALLATION



OSNOVNI ELEMENTI SISTEMA ZA KOSE KROVOVE SA CREPOM  
 ESSENTIAL ELEMENTS FOR SLOPED ROOF SYSTEMS WITH ROOF TILES



**1** srednje klampe - S30, S38, S80, S82  
 middle clamps - S30, S38, S80, S82

**2** krajnje klampe - S31, S39, S81, S83  
 end clamps - S31, S39, S81, S83

**3** aluminijumski rail - S04  
 aluminum rail - S04

**4** aluminijumska šina - S18  
 aluminum rail - S18

**5** kuka 2D- S90  
 2D hook - S90

**6** kuka 3D- S91  
 3D hook - S91

**7** klizna navrtka - S41  
 sliding screw - S41

**8** vijak DIN 912 M8x20  
 screw DIN 912 M8x20

DETALJ MONTAŽE NA KOSOM KROVU SA CREPOM  
MOUNTING DETAIL FOR SLANTED ROOF WITH TILES

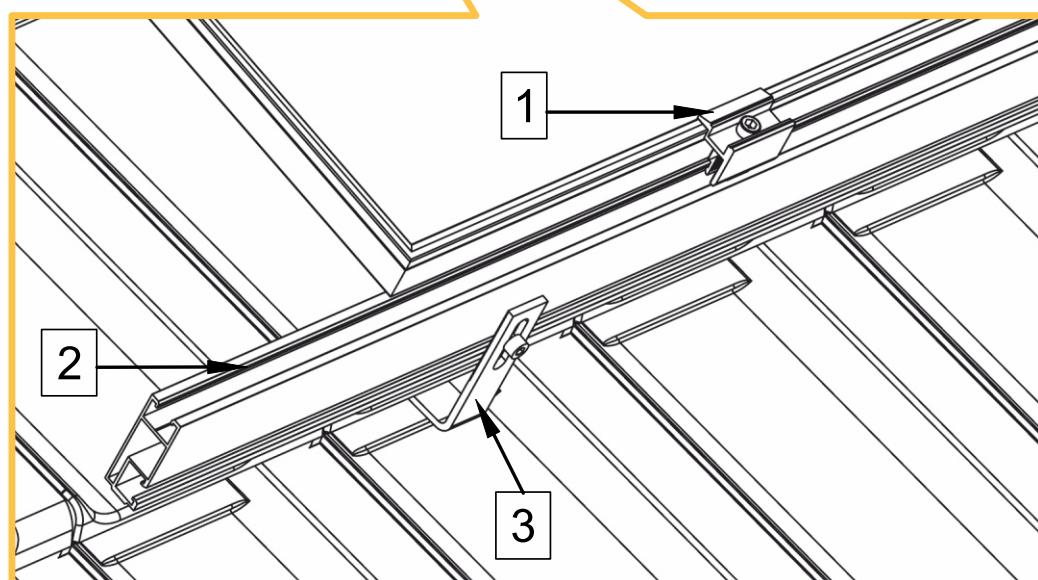
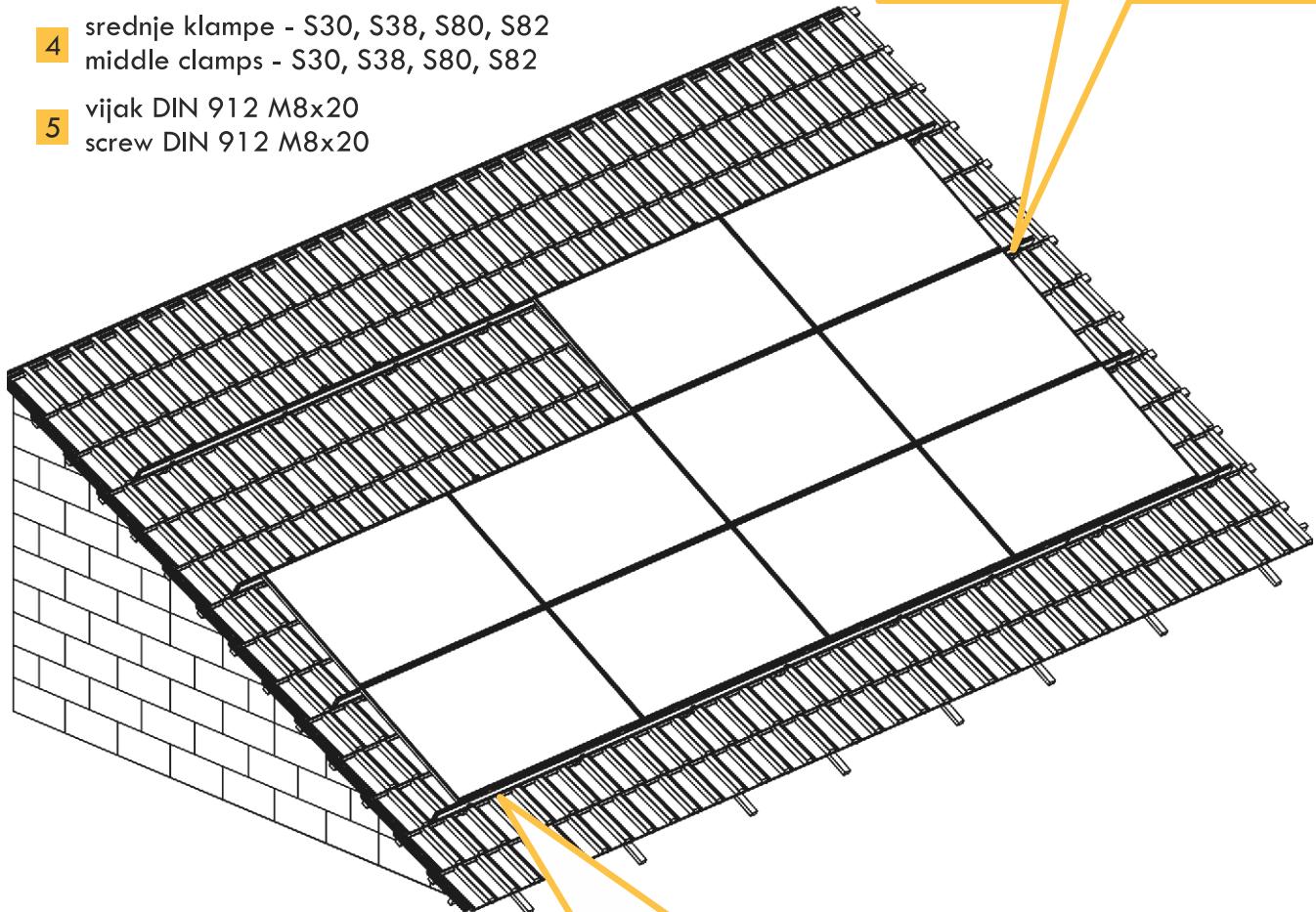
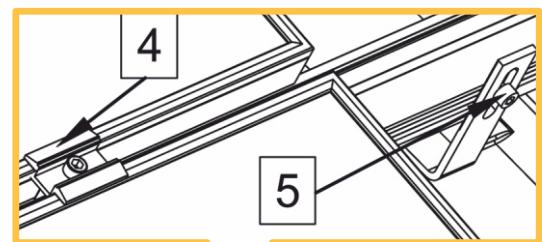
1 krajnje klampe - S31, S39, S81, S83  
end clamps - S31, S39, S81, S83

2 aluminijumski profil - S04, S18  
aluminum profile S04, S18

3 kuka - S90, S91  
hook - S90, S91

4 srednje klampe - S30, S38, S80, S82  
middle clamps - S30, S38, S80, S82

5 vijak DIN 912 M8x20  
screw DIN 912 M8x20





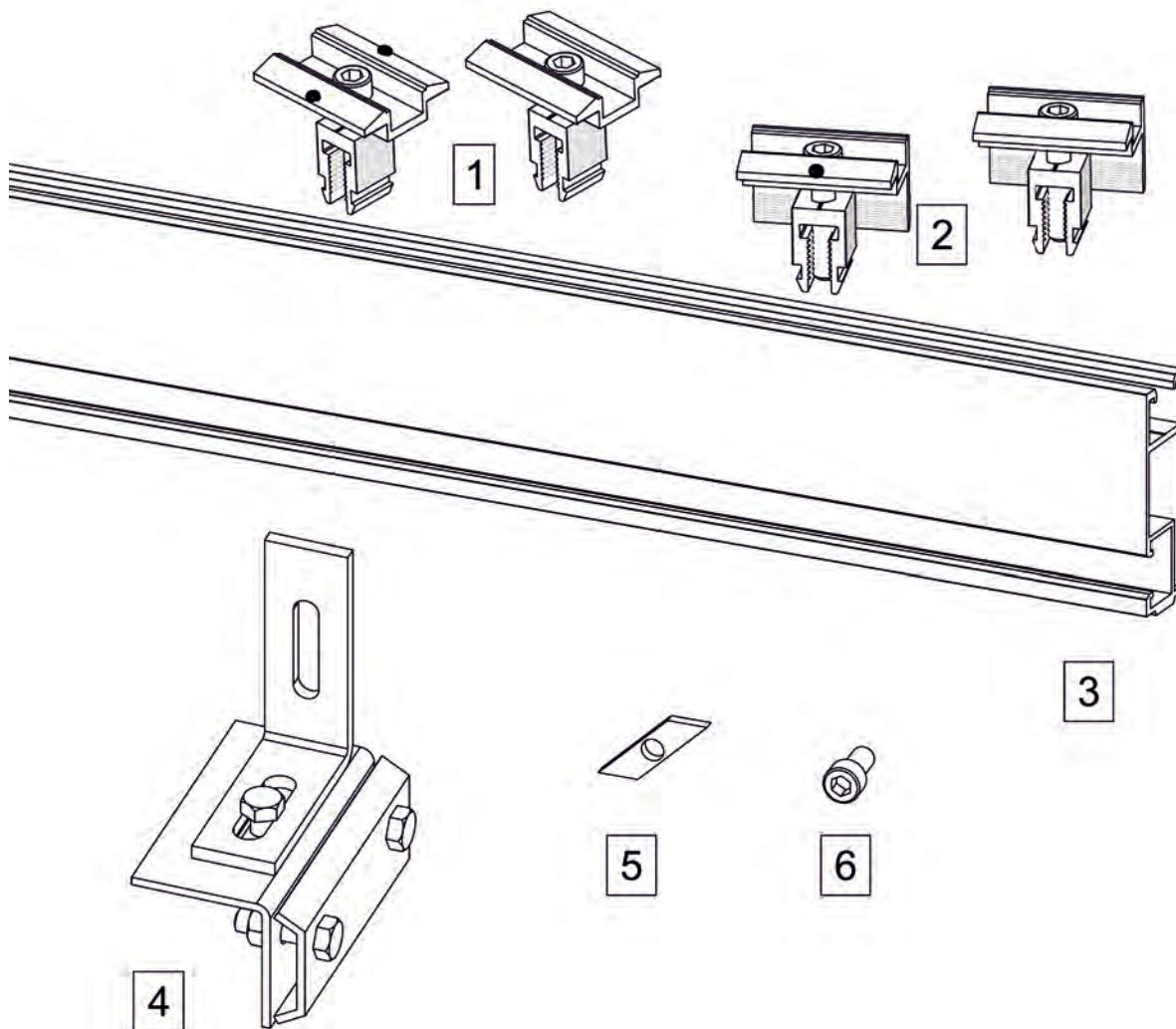
**SOLAR**



**MONTAŽA NA KOSOM KROVU SA FALCOVANÍM LIMOM**  
**STANDING SEAM SLANTED ROOF INSTALLATION**



OSNOVNI ELEMENTI SISTEMA ZA KOSE KROVOVE SA FALCOVANIM LIMOM  
 ESSENTIAL ELEMENTS FOR SLOPED ROOF SYSTEMS WITH STANDING SEAM



**1** srednje klampe - S30, S38, S80, S82  
 middle clamps - S30, S38, S80, S82

**2** krajnje klampe - S31, S39, S81, S83  
 end clamps - S31, S39, S81, S83

**3** aluminijumski profil - S04  
 aluminum profile - S04

**4** stezaljka - S92  
 clamp - S92

**5** klizna navrtka - S41  
 sliding screw - S41

**6** vijak DIN 912 M8x20  
 screw DIN 912 M8x20

DETALJ MONTAŽE NA KOSOM KROVU SA CREPOM  
MOUNTING DETAIL FOR SLANTED ROOF WITH STANDING SEAM

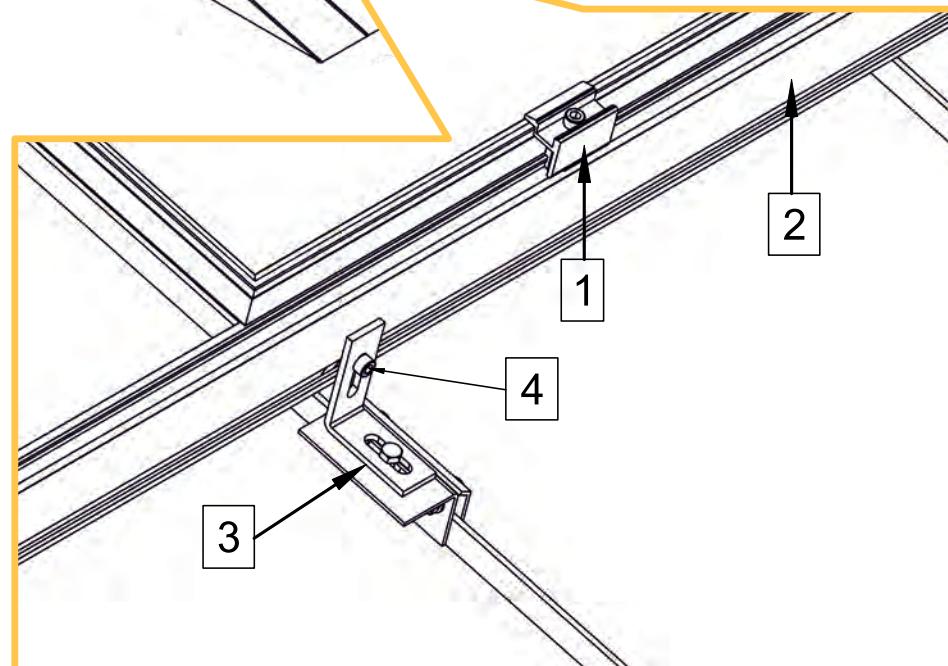
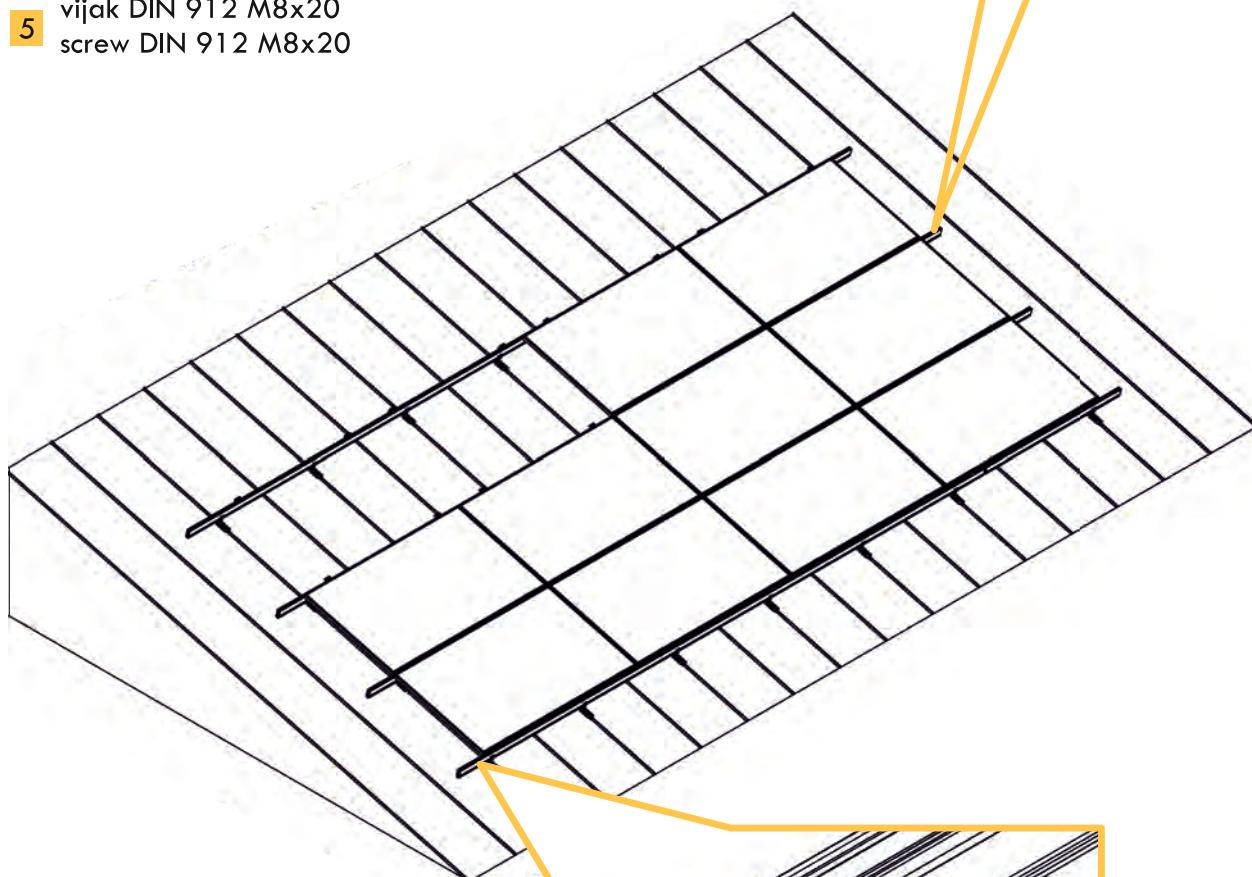
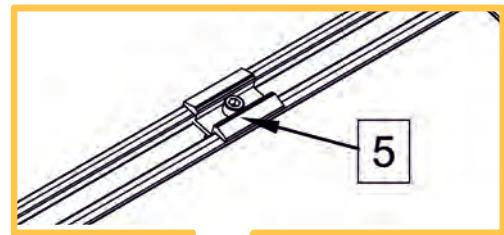
1 krajnje klampe - S31, S39, S81, S83  
end clamps - S31, S39, S81, S83

2 aluminijumski profil - S04  
aluminum profile S04

3 stezaljka - S92  
clamp - S92

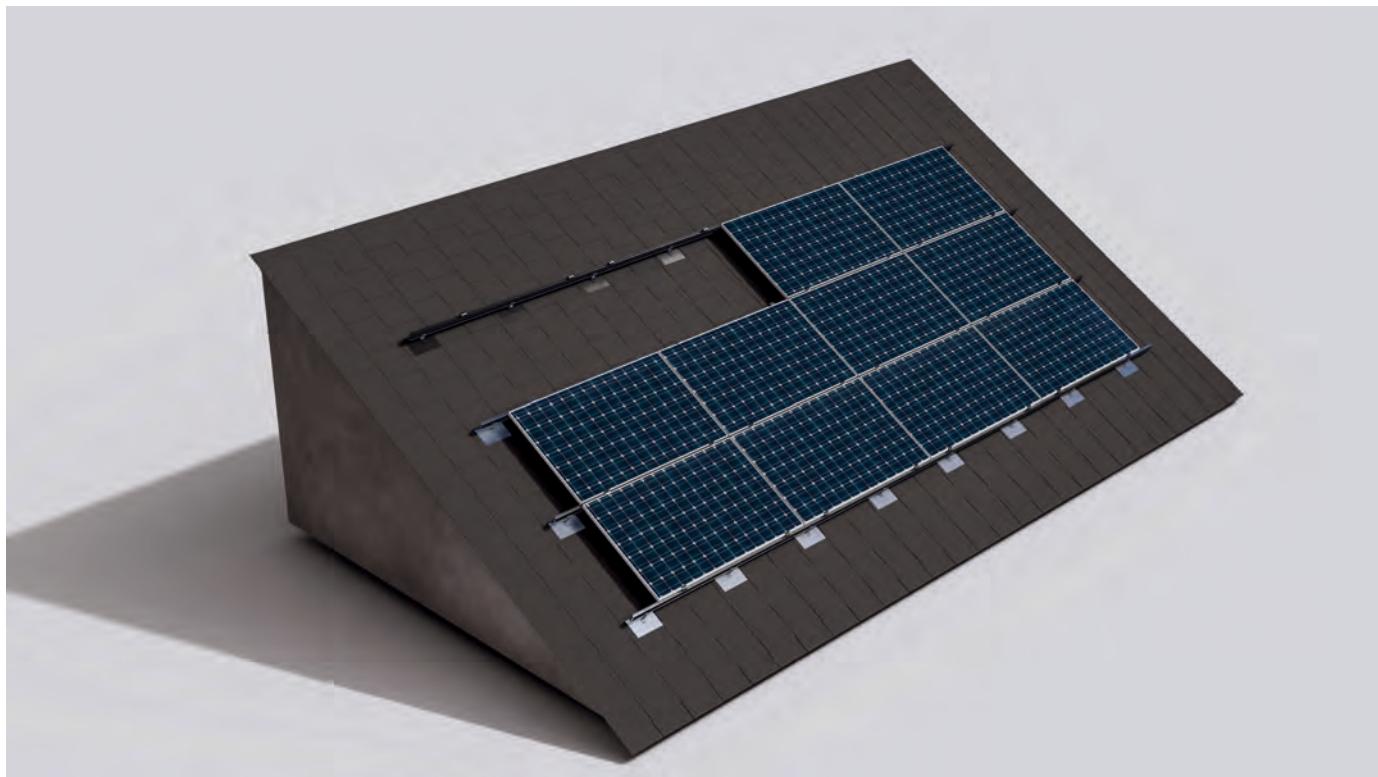
4 srednje klampe - S30, S38, S80, S82  
middle clamps - S30, S38, S80, S82

5 vijak DIN 912 M8x20  
screw DIN 912 M8x20





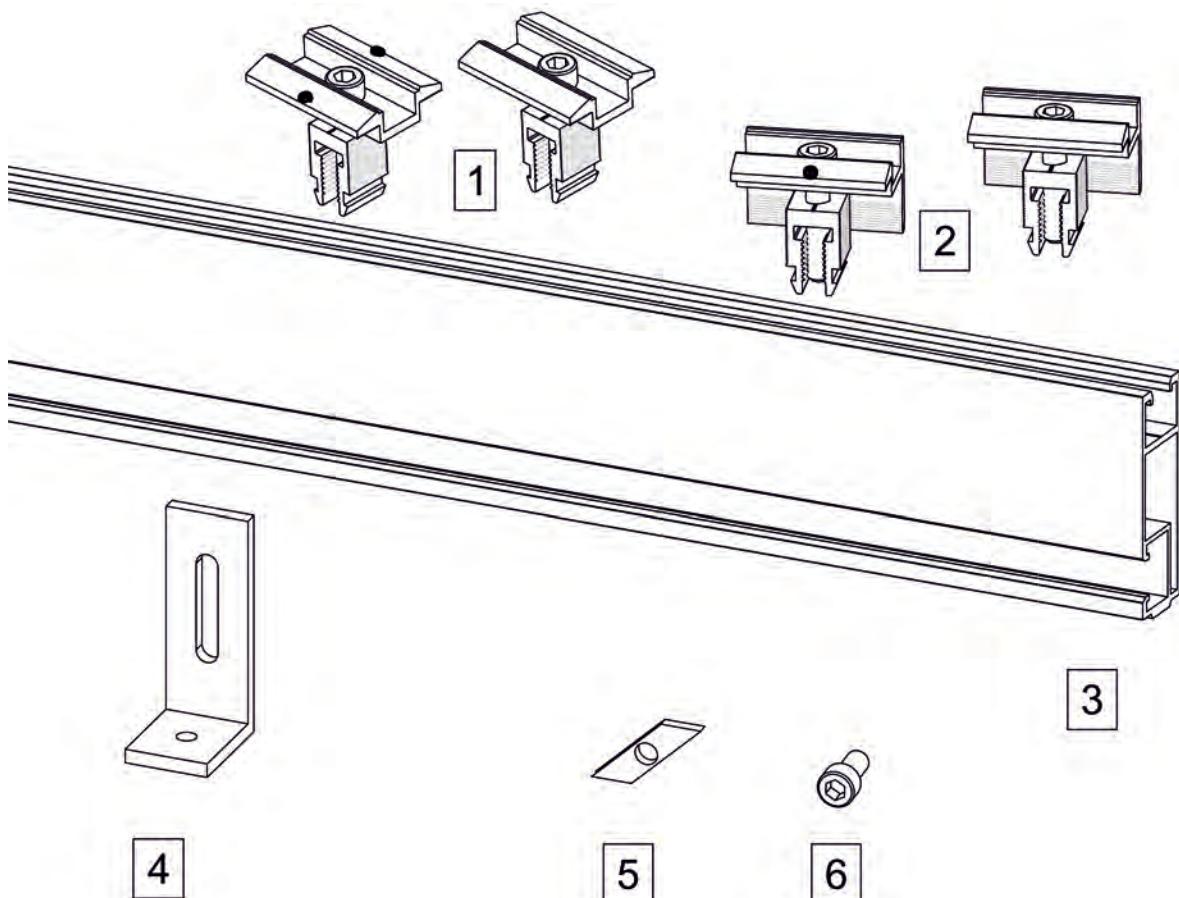
**SOLAR**



**MONTAŽA NA KOSOM KROVU SA TEGOLOM  
BITUMEN SHINGLES SLANTED ROOF INSTALLATION**



OSNOVNI ELEMENTI SISTEMA ZA KOSE KROVOVE SA TEGOLOM  
 ESSENTIAL ELEMENTS FOR SLOPED ROOF SYSTEMS WITH BITUMEN SHINGLES



**1** srednje klampe - S30, S38, S80, S82  
 middle clamps - S30, S38, S80, S82

**2** krajnje klampe - S31, S39, S81, S83  
 end clamps - S31, S39, S81, S83

**3** aluminijumski profil - S04  
 aluminum profile - S04

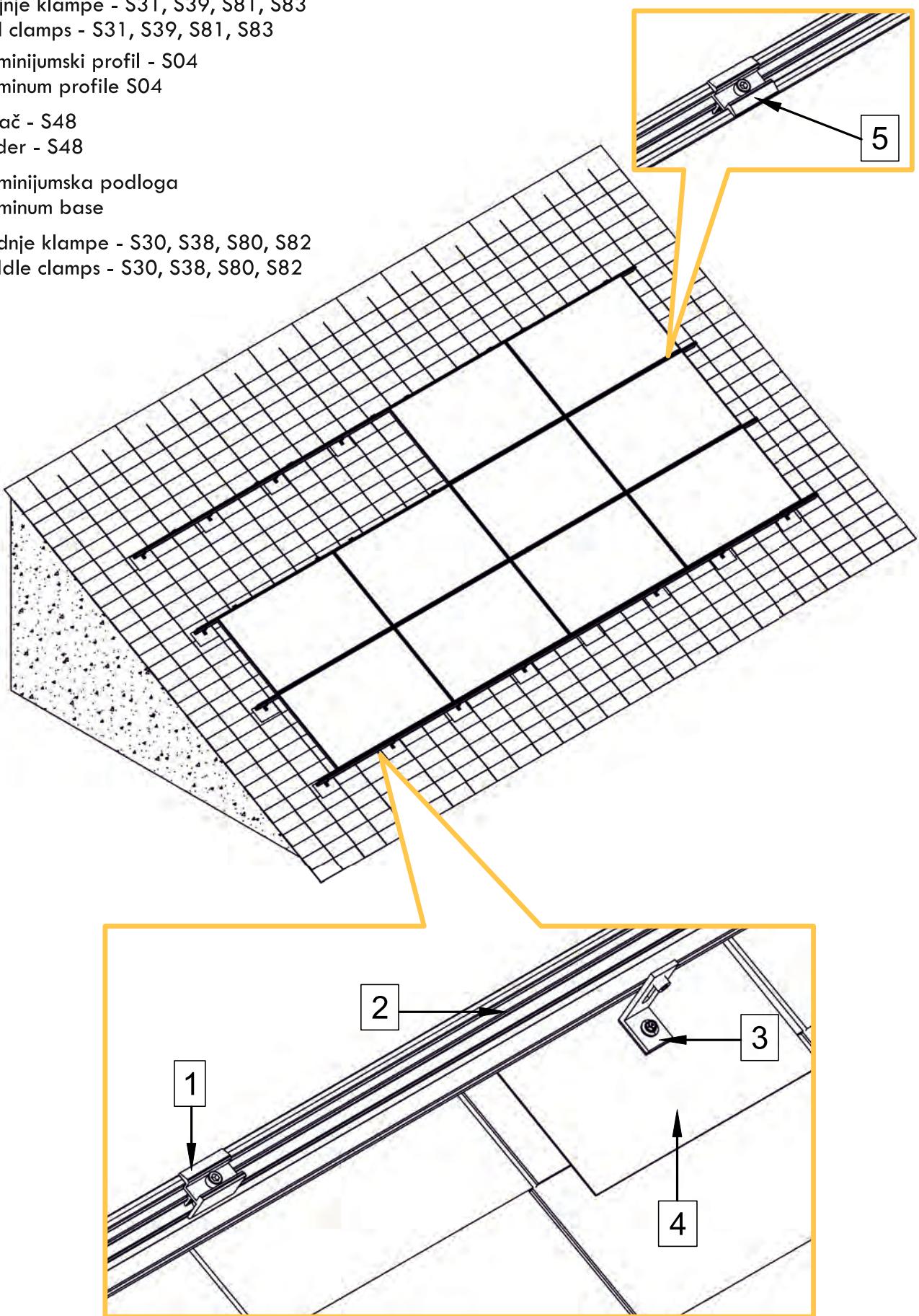
**4** nosač - S48  
 porter - S48

**5** klizna navrtka - S41  
 sliding screw - S41

**6** vijak DIN 912 M8x20  
 screw DIN 912 M8x20

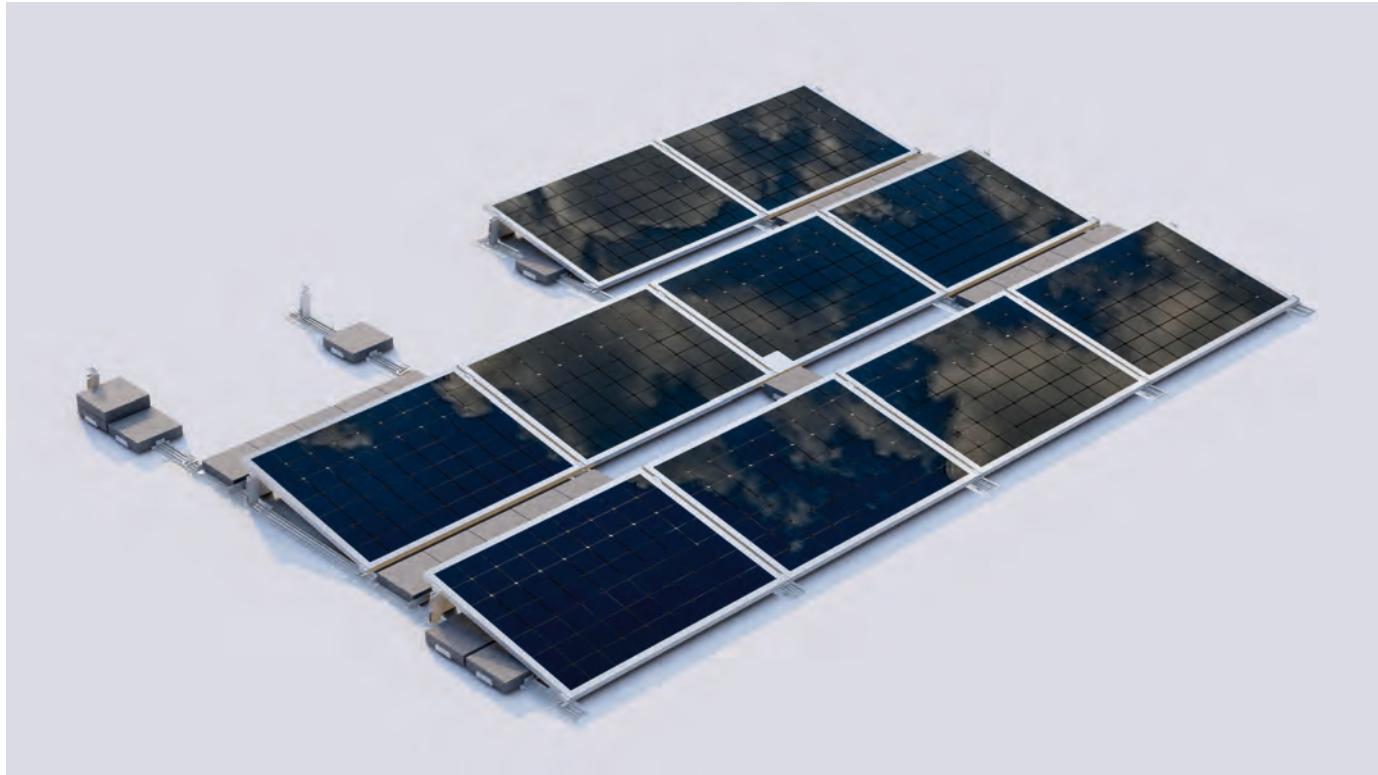
DETALJ MONTAŽE NA KOSOM KROVU SA TEGOLOM  
MOUNTING DETAIL FOR SLOPED ROOF WITH BITUMEN SHINGLES

- 1 krajnje klampe - S31, S39, S81, S83  
end clamps - S31, S39, S81, S83
- 2 aluminijumski profil - S04  
aluminum profile S04
- 3 nosač - S48  
girder - S48
- 4 aluminijumska podloga  
aluminum base
- 5 srednje klampe - S30, S38, S80, S82  
middle clamps - S30, S38, S80, S82

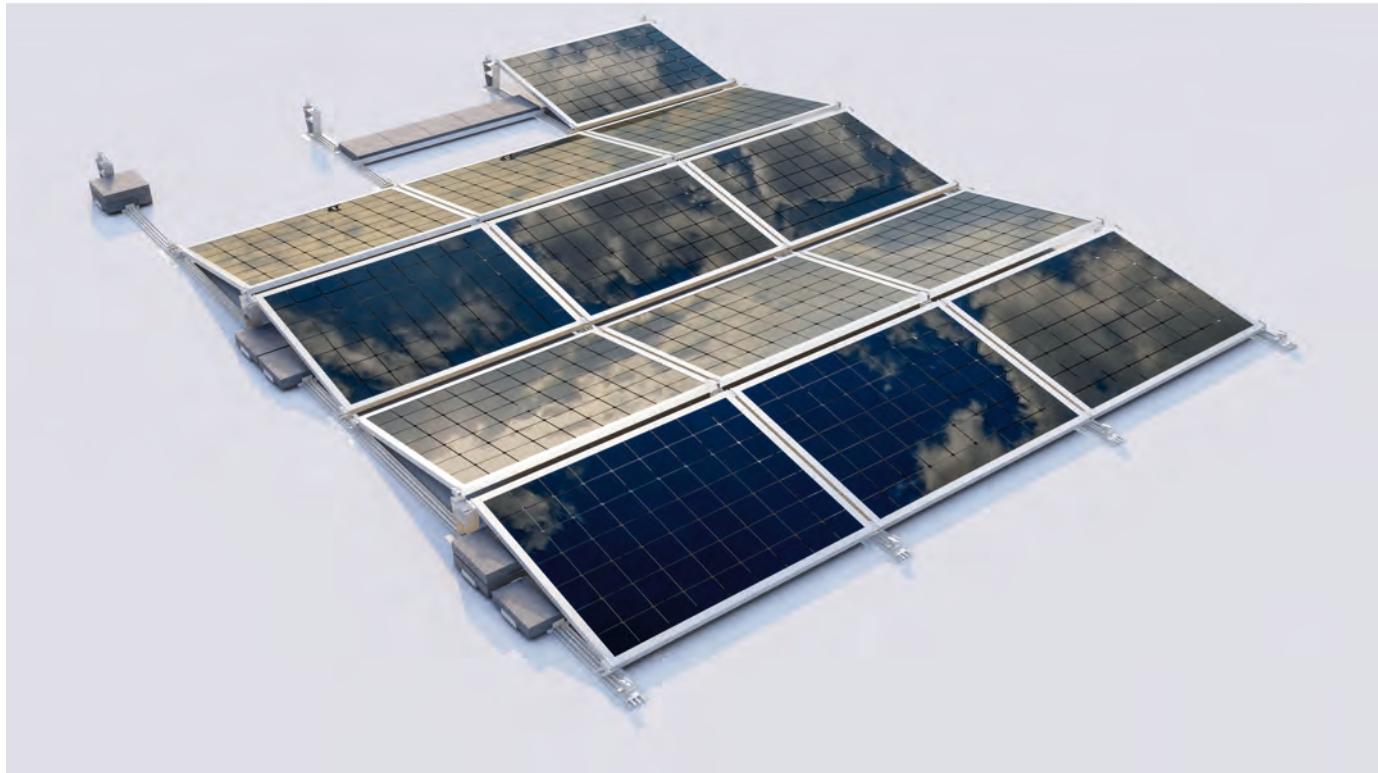


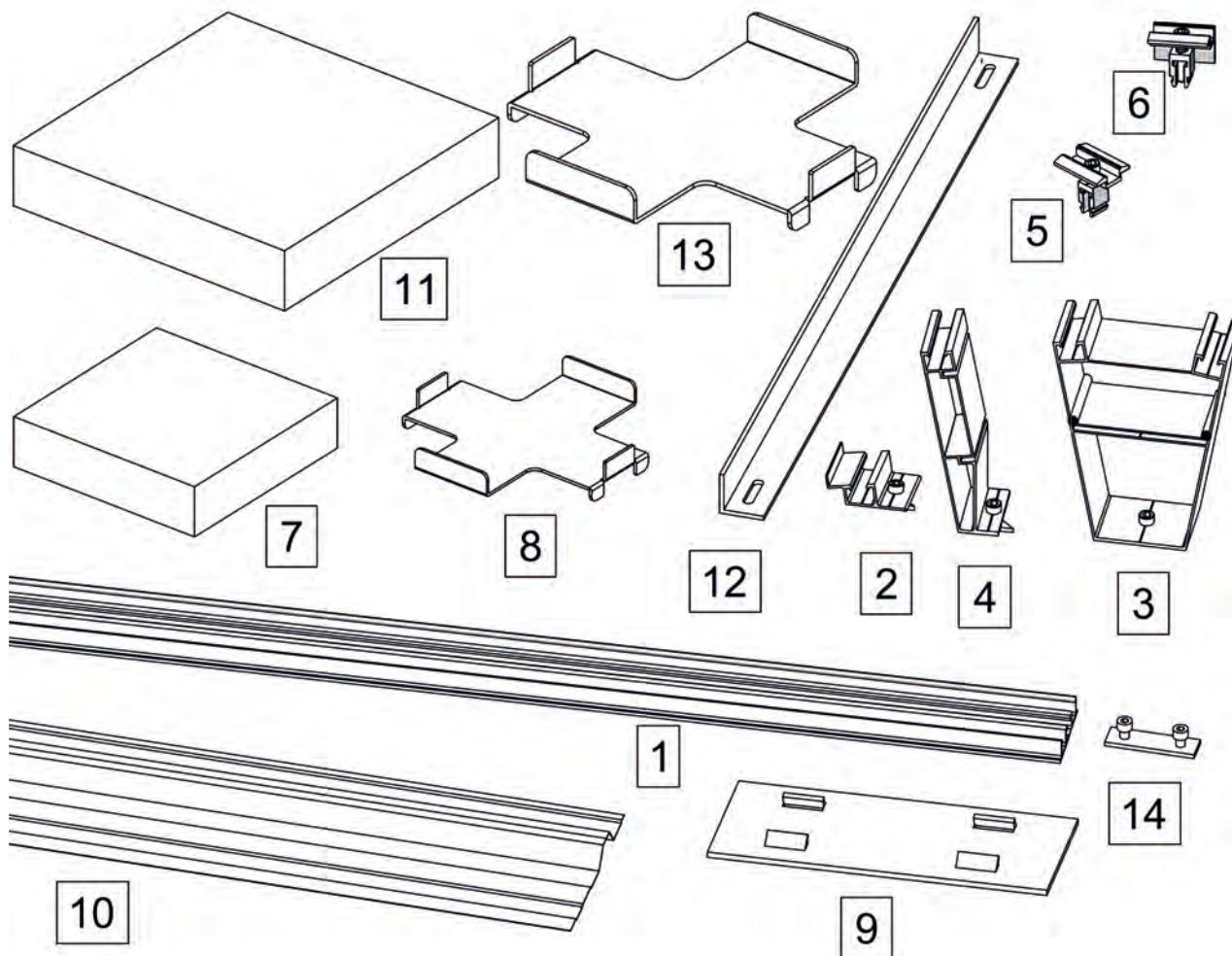


**SOLAR**



**MONTAŽA NA RAVNOM KROVU**  
**FLAT ROOF INSTALLATION**

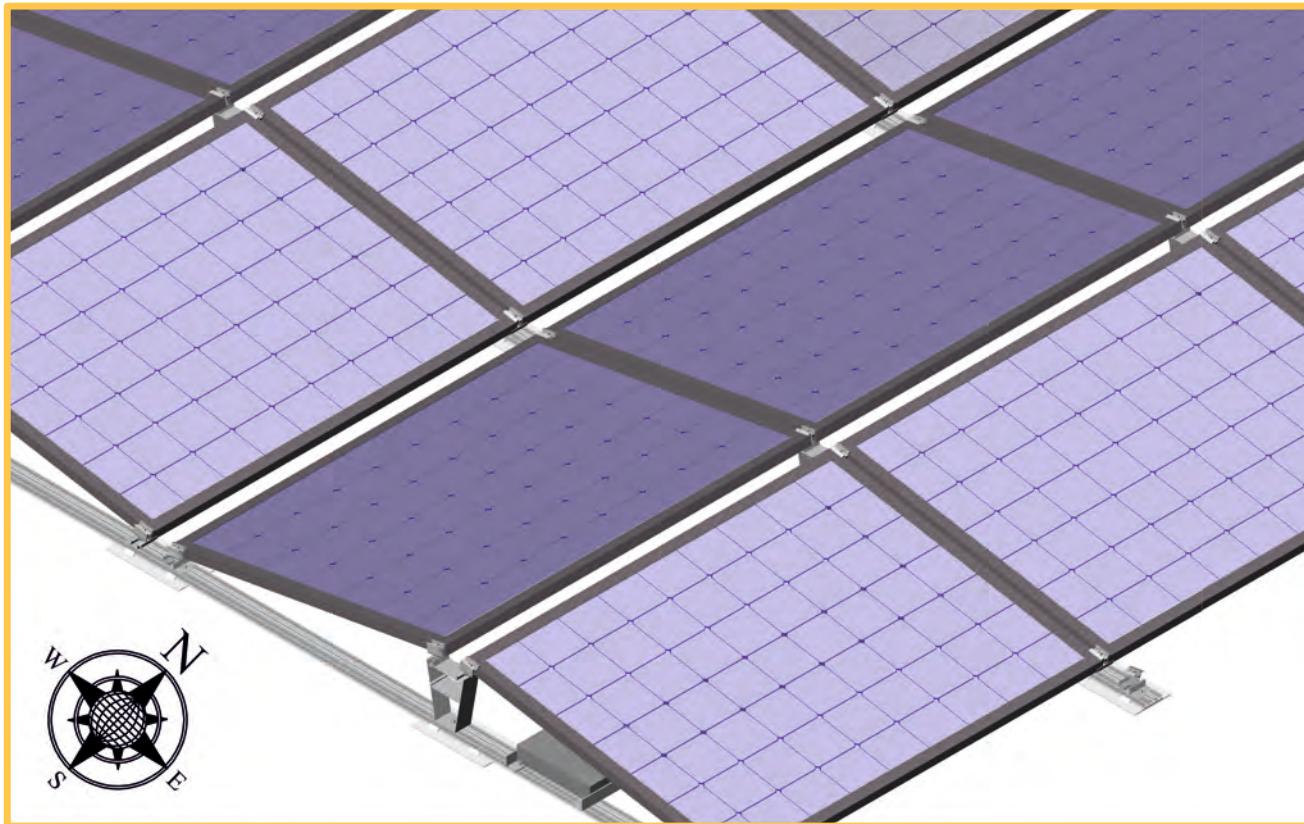




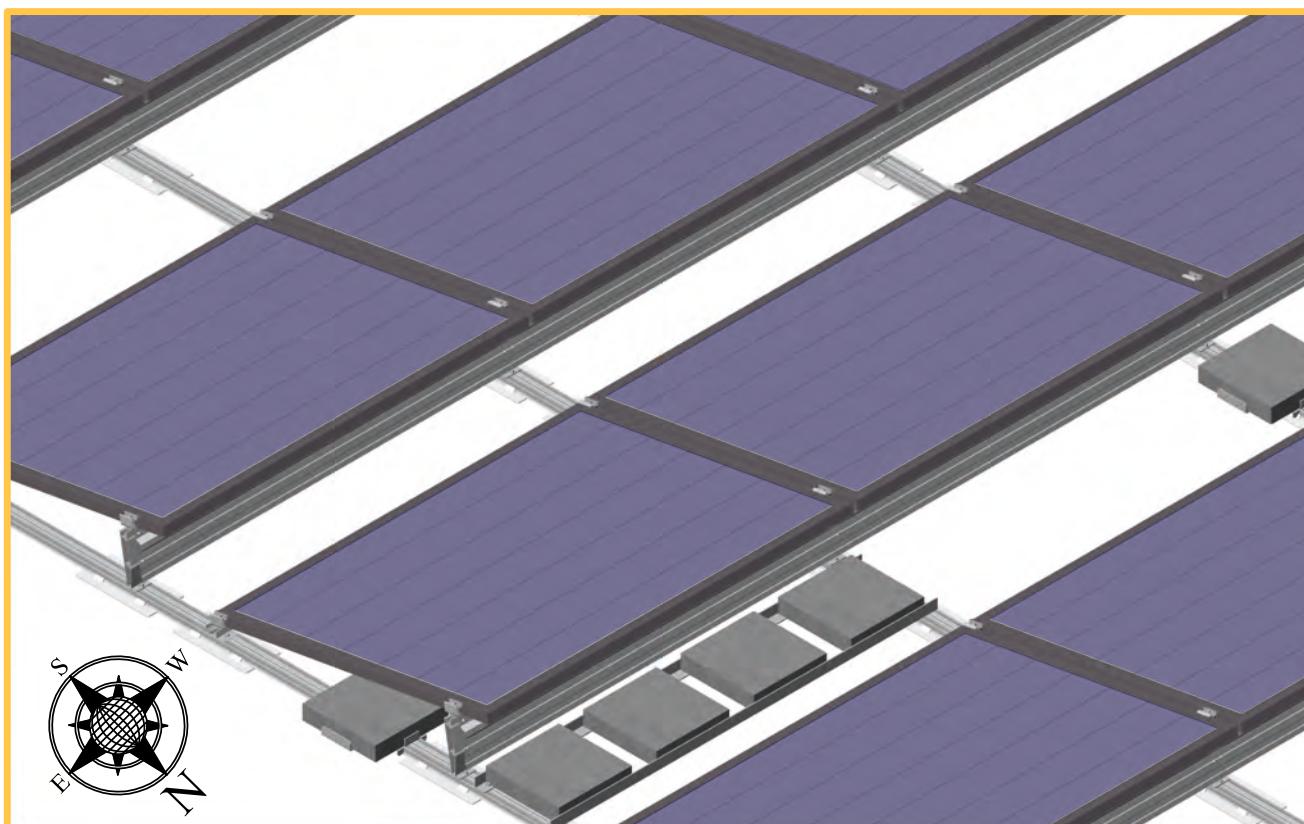
KOMPONENTE SISTEMA ZA RAVNE KROVOVE  
FLAT ROOF SYSTEM COMPONENTS

- |          |   |           |  |
|----------|---|-----------|--|
| <b>1</b> | aluminijumska šina - S09<br>aluminium rail - S09                          | <b>8</b>  | nosač balasta (S71) - S72<br>ballast bracket (S71) - S72             |
| <b>2</b> | donji nosač - S32<br>lower bracket - S32                                  | <b>9</b>  | podloška za zaštitu krova - S70<br>roof protection mat - S70         |
| <b>3</b> | gornji dvostruki nosač - S33<br>upper double bracket - S33                | <b>10</b> | vetrobran - S73<br>deflector - S73                                   |
| <b>4</b> | gornji nosač - S34<br>upper bracket - S34                                 | <b>11</b> | betonski balast (12,5 kg) - S74<br>concrete ballast (12,5 kg) - S74  |
| <b>5</b> | srednje klampe - S30, S38, S80, S82<br>middle clamps - S30, S38, S80, S82 | <b>12</b> | poprečni nosač balasta - S75.L<br>transverse ballast bracket - S75.L |
| <b>6</b> | krajnje klampe - S31, S39, S81, S83<br>end clamps - S31, S39, S81, S83    | <b>13</b> | nosač balasta (S74) - S76<br>ballast bracket (S74) - S76             |
| <b>7</b> | betonski balast (5kg) - S71<br>concrete ballast (5kg) - S71               | <b>14</b> | spojnica šine - S42<br>rail connector - S42                          |

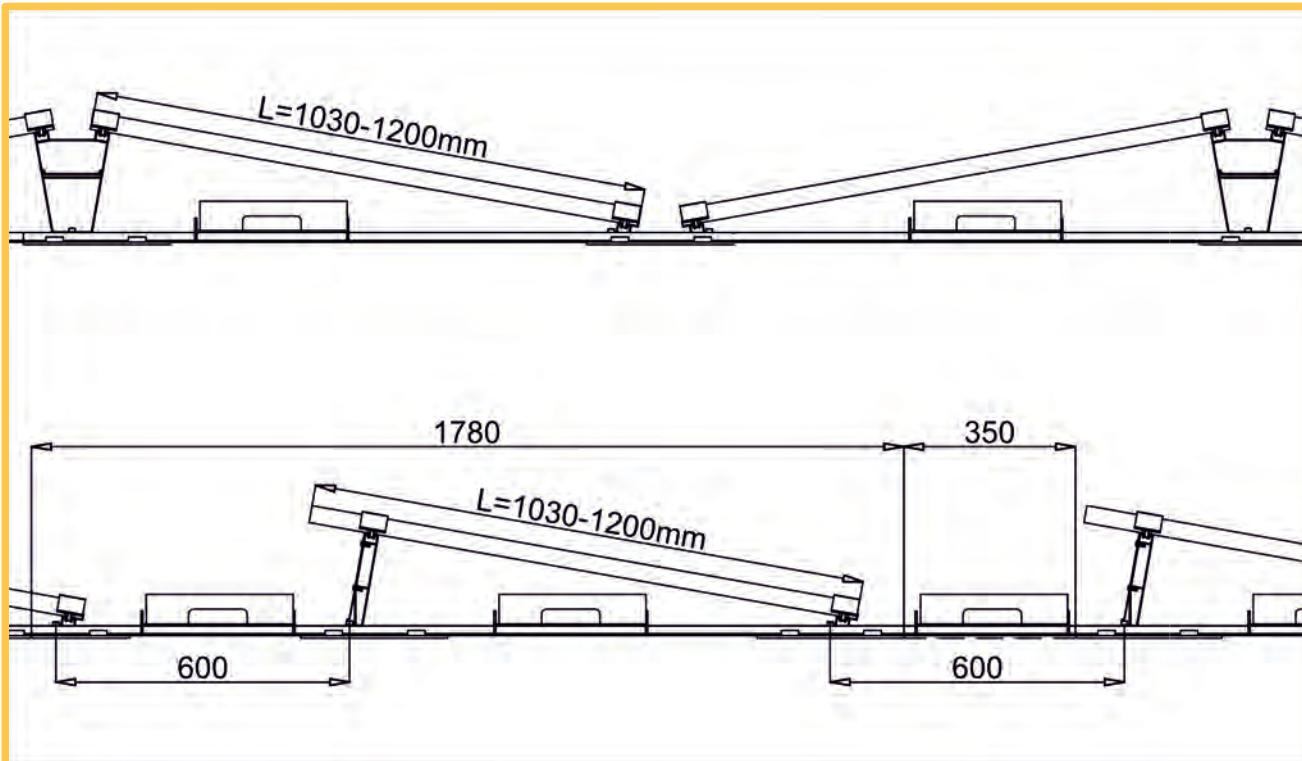
MONTAŽA SOLARNIH PANELA NA RAVNE KROVOVE SA IZOLACIJOM  
INSTALLATION OF SOLAR PANELS ON FLAT ROOFS WITH INSULATION



ORIJENTACIJA ISTOK-ZAPAD / EAST-WEST ORIENTATION



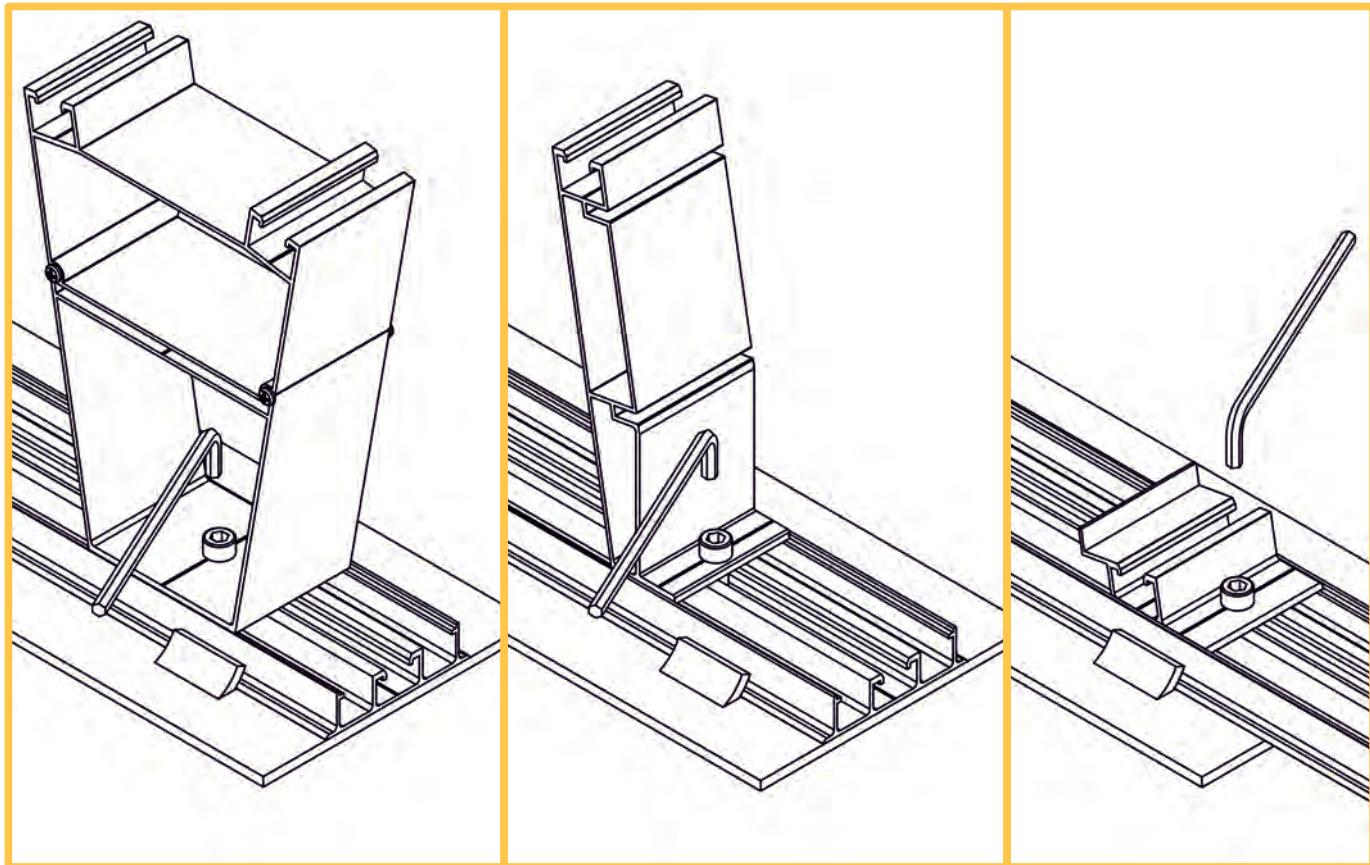
ORIJENTACIJA JUG / SOUTH ORIENTATION



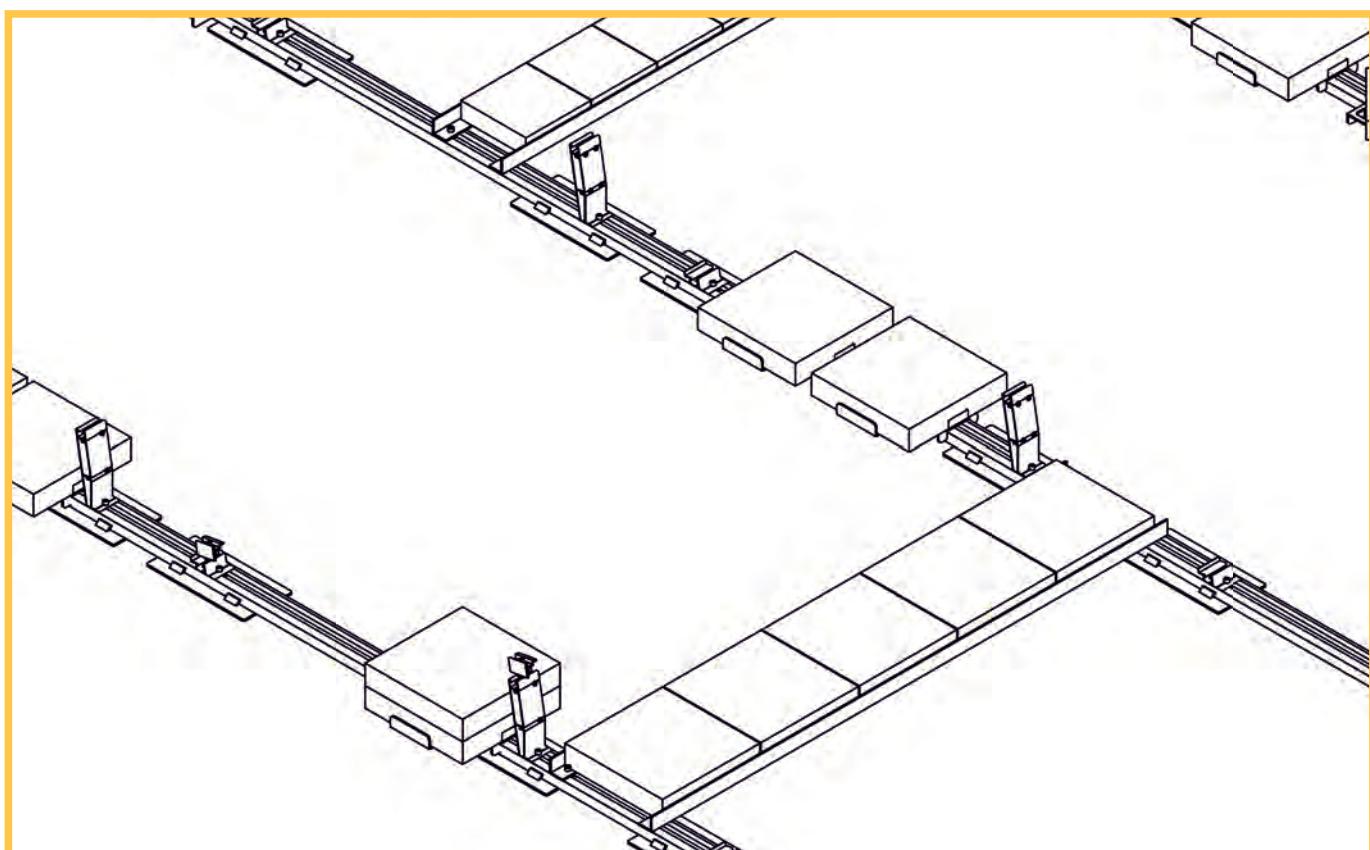
1. osnovne mere i raspored elemenata u zavisnosti od orijentacije / basic measures and arrangement of elements depending on orientation



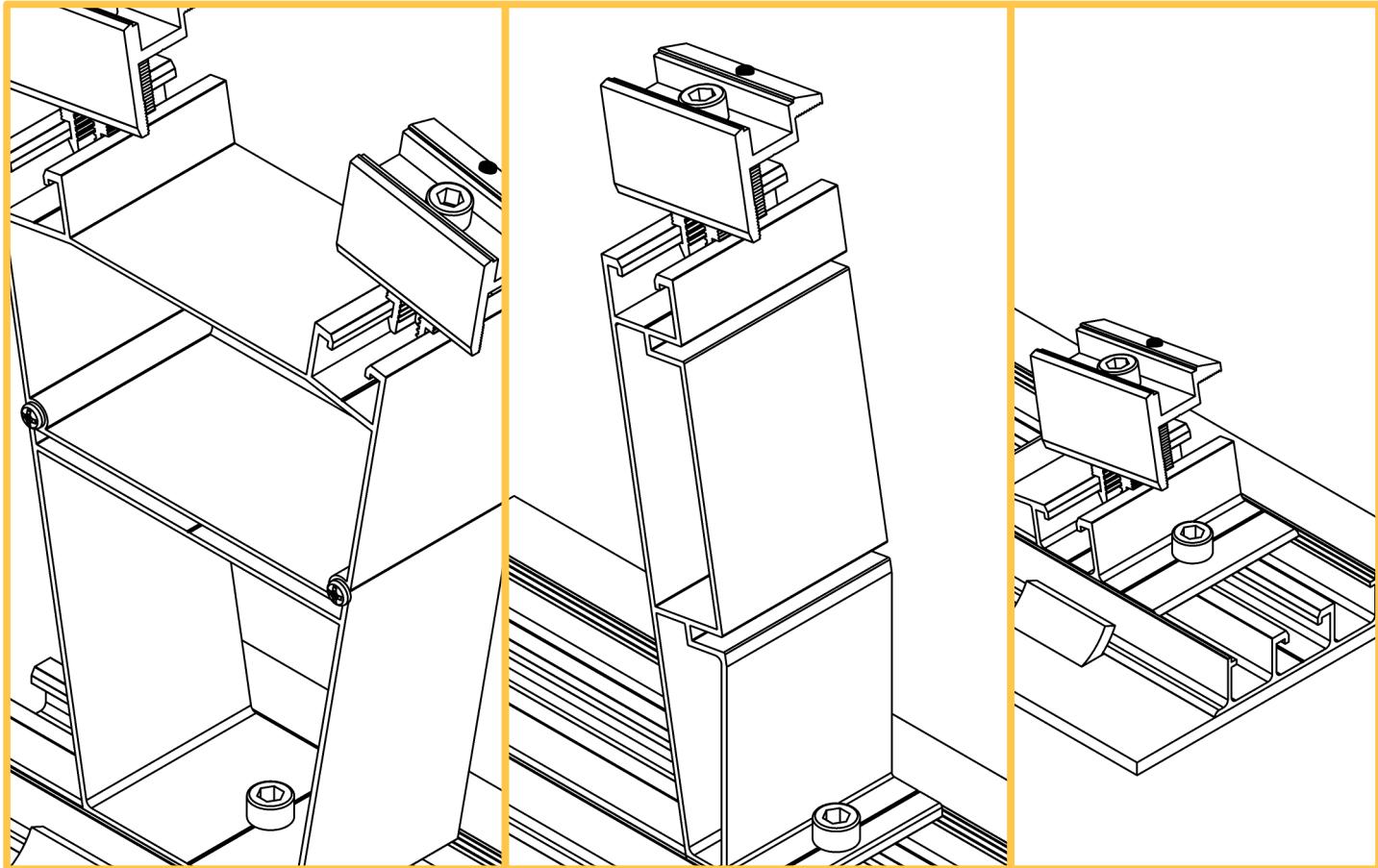
2. u zavisnosti od smera montaže raspoređiti aluminijumske šine i zaštitne podloge / depending on the direction of installation, arrange aluminum rails and protective bases



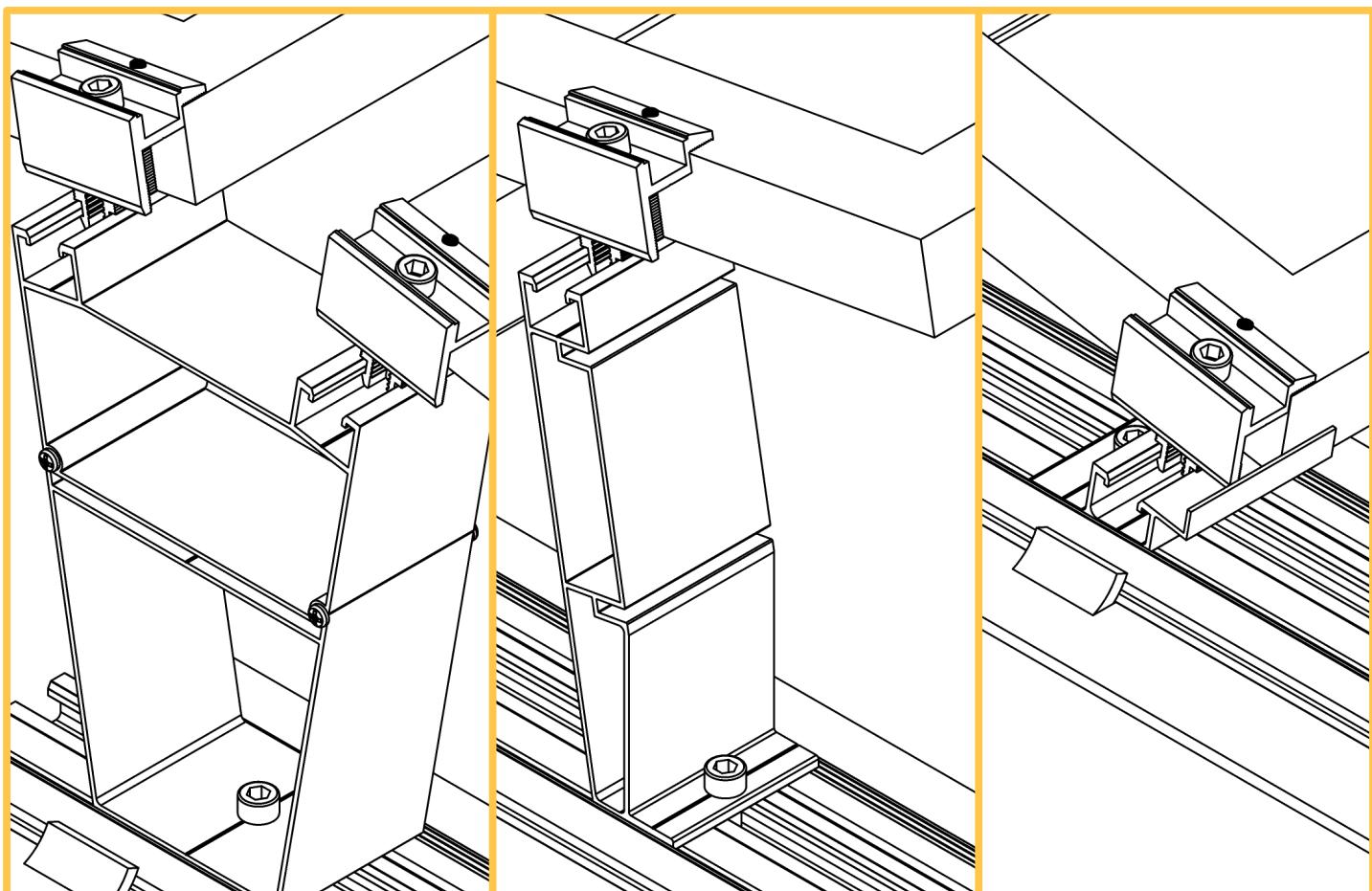
3. postaviti gornje i donje nosače i pritegnuti ih silom od 14Nm / install the upper and lower brackets and tighten them with a force of 14Nm



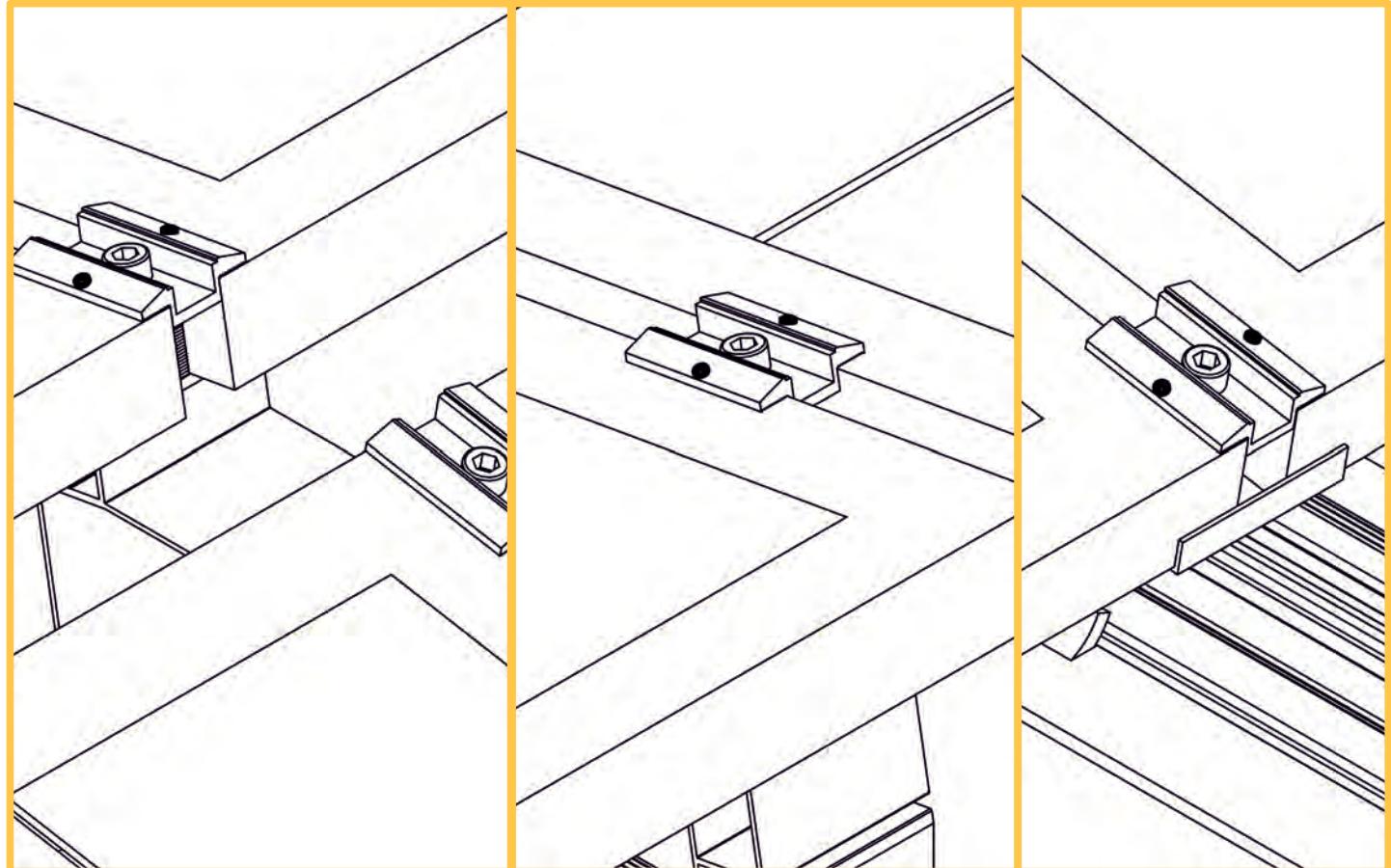
4. rasporediti balaste na osnovu statičkog proračuna / distribute the ballasts based on the static calculation



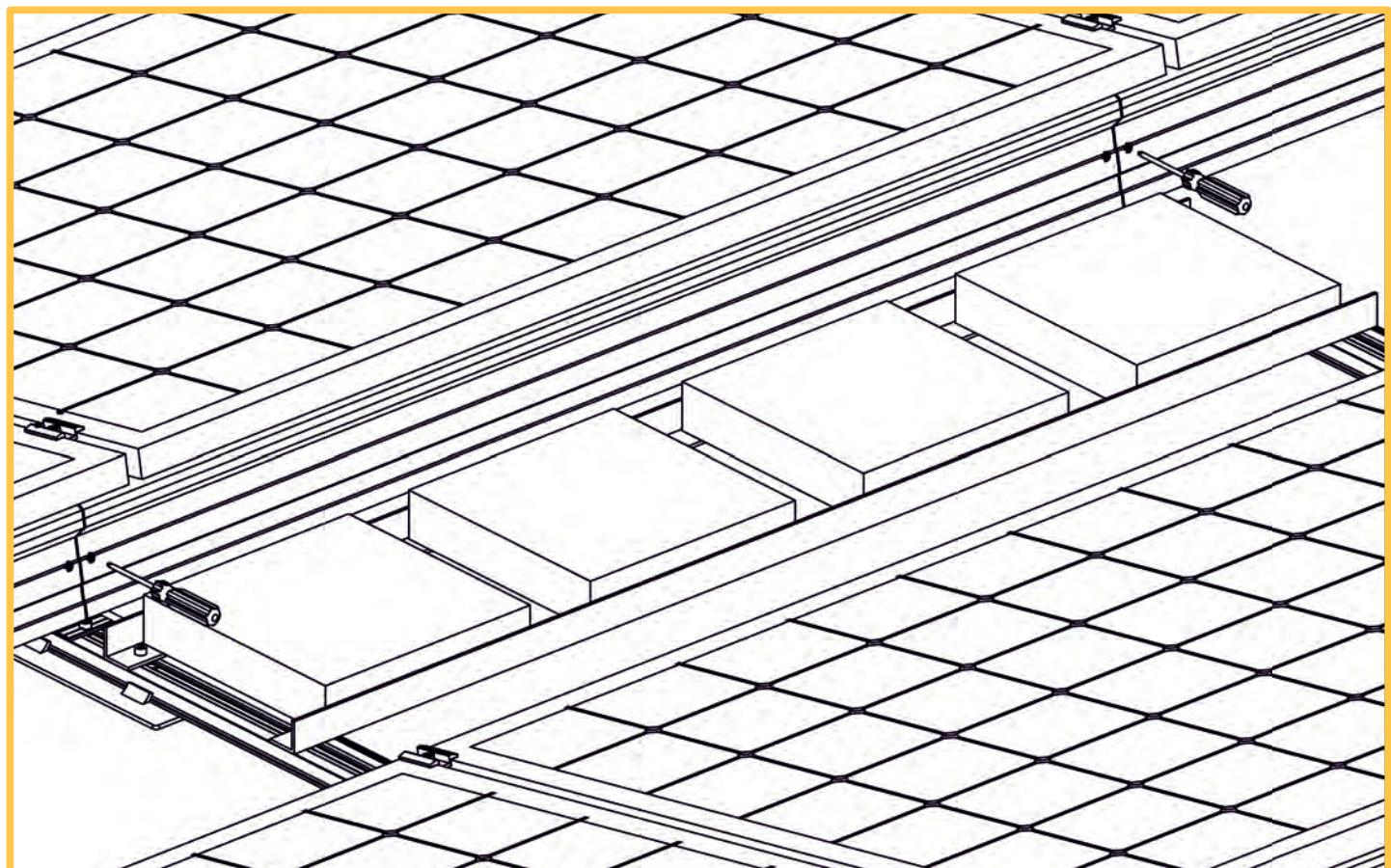
5. kliknuti krajnje klampe u nosače / click the end clamps into the brackets



6. pozicionirati prvi red solarnih panela / position the first row of solar panels



7. kliknuti srednje klampe, postaviti sledeći red panela i pritegnuti klampe silom od 14Nm / click the middle clamps, place the next row of panels and tighten the clamps with a force of 14Nm



8. pri montaži sa orijentacijom jug postaviti deflektore na krajevima segmentata / when mounting with a south orientation, place deflectors at the ends of the segments

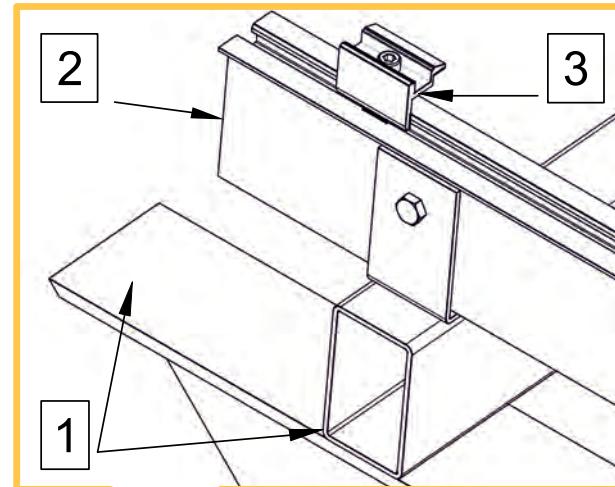


**SOLAR**

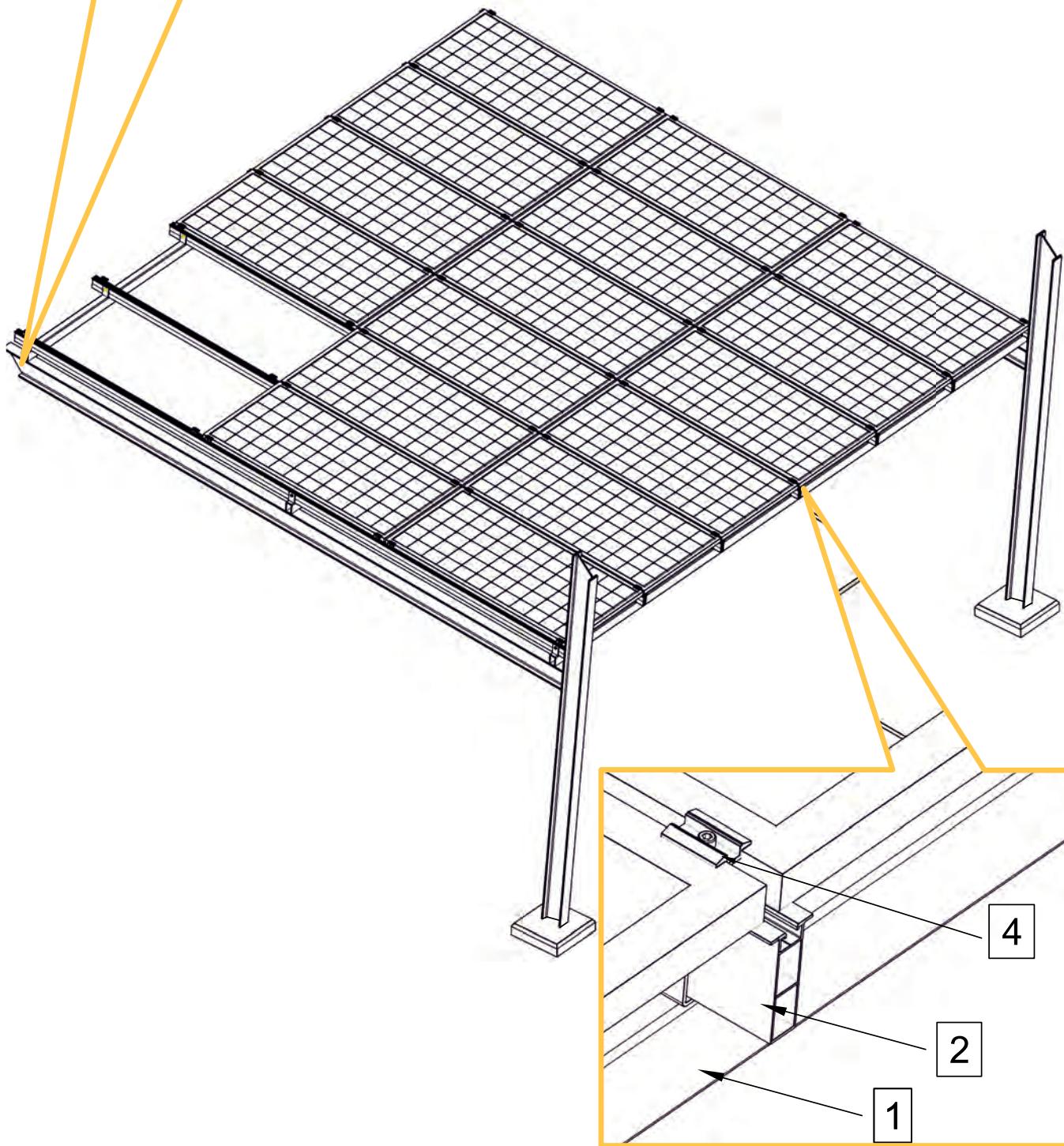


MONTAŽA NA NADSTREŠNICI  
CANOPY INSTALLATION





- 1 čelična konstrukcija  
steel structure
- 2 aluminijumski profil - S14  
aluminum profile S14
- 3 srednja klampa - S30,S38,S80,S82  
middle clamp - S30,S38,S80,S82
- 4 krajnja klampa - S31,S39,S81,S83  
end clamp - S31,S39,S81,S83

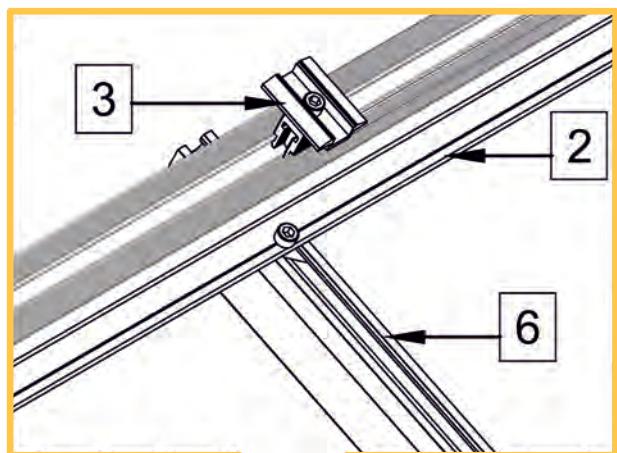


**SOLAR**

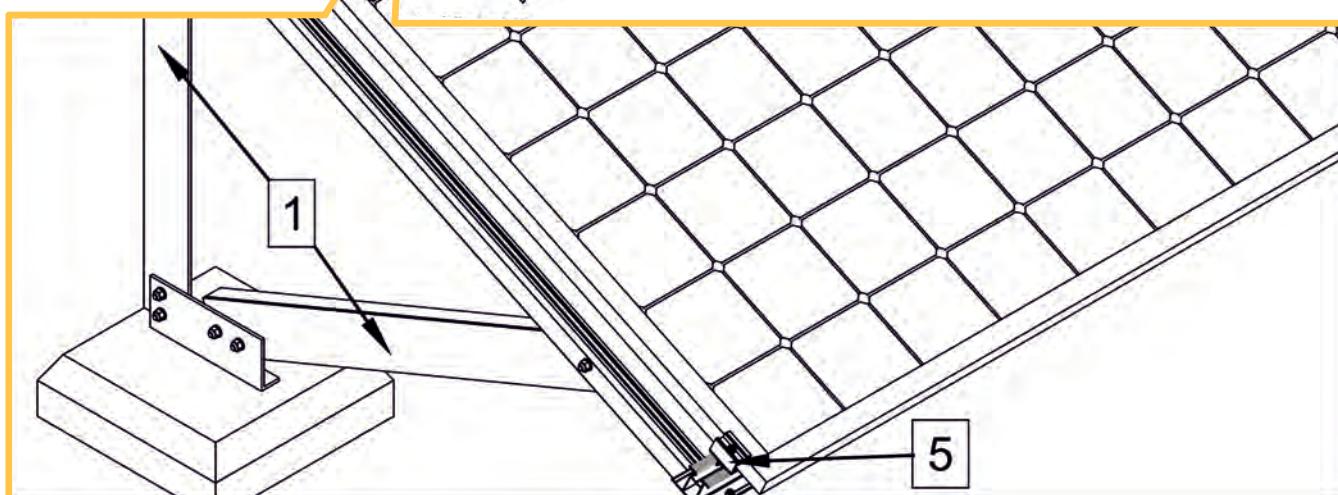
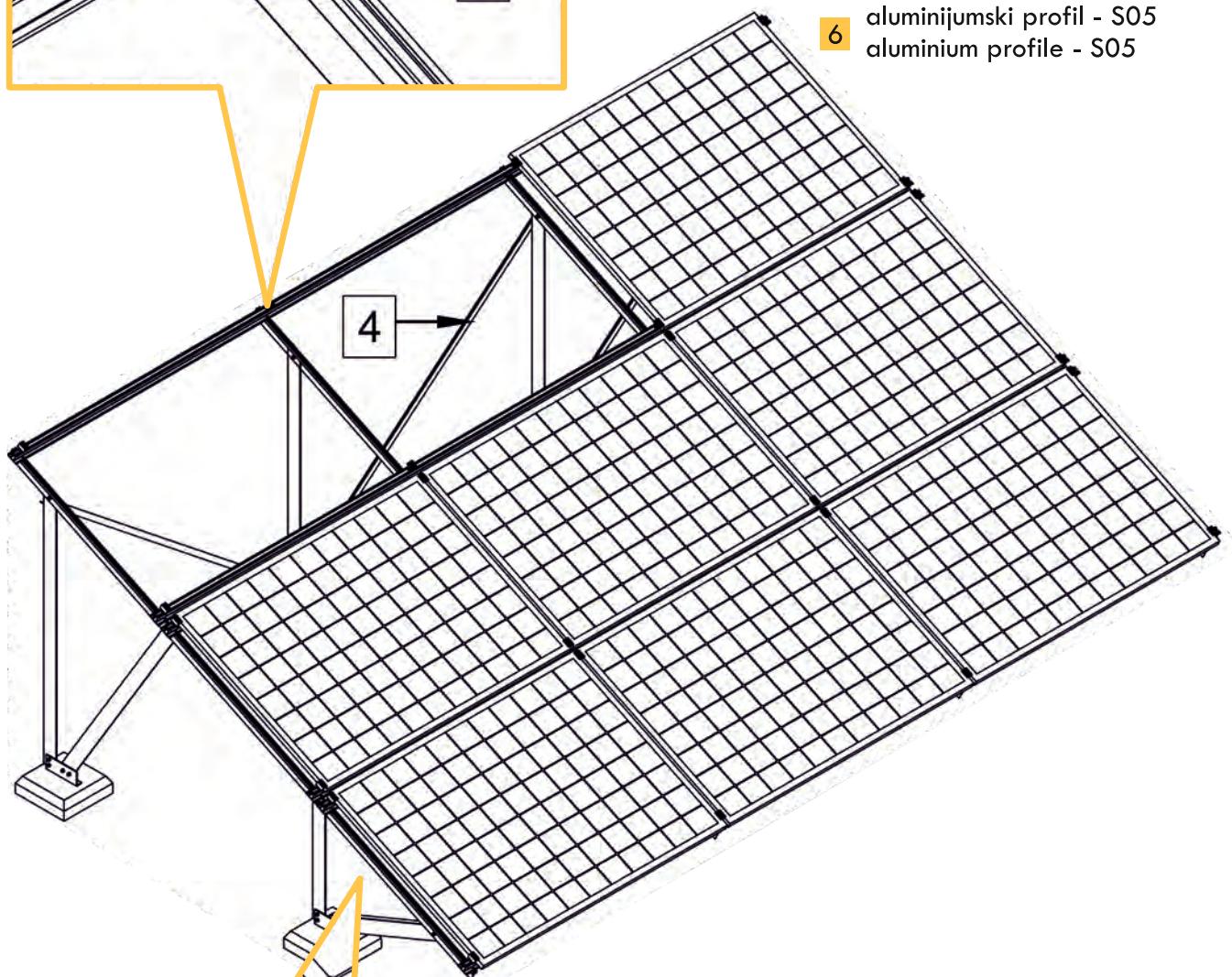


MONTAŽA NA TLU  
GROUND INSTALLATION

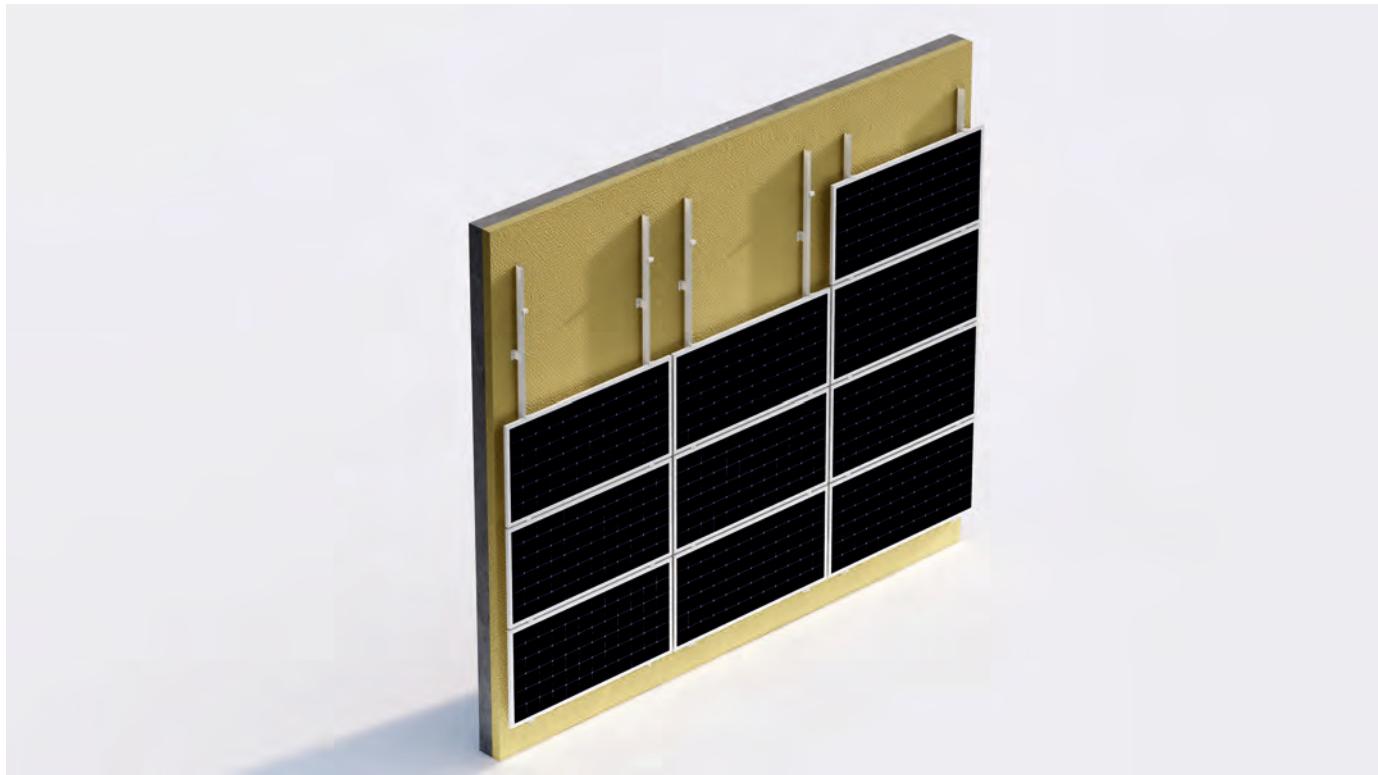


DETALJ MONTAŽE NA TLU  
GROUND MOUNTING DETAIL

- 1 aluminijumski profil L4080  
aluminium profile L4080
- 2 aluminijumski profil S16  
aluminium profile S16
- 3 srednja klampa - S30,S38,S80,S82  
middle clamp - S30,S38,S80,S82
- 4 aluminijumski profil L4040  
aluminium profile L4040
- 5 krajnja klampa - S31,S39,S81,S83  
end clamp - S31,S39,S81,S83
- 6 aluminijumski profil - S05  
aluminium profile - S05



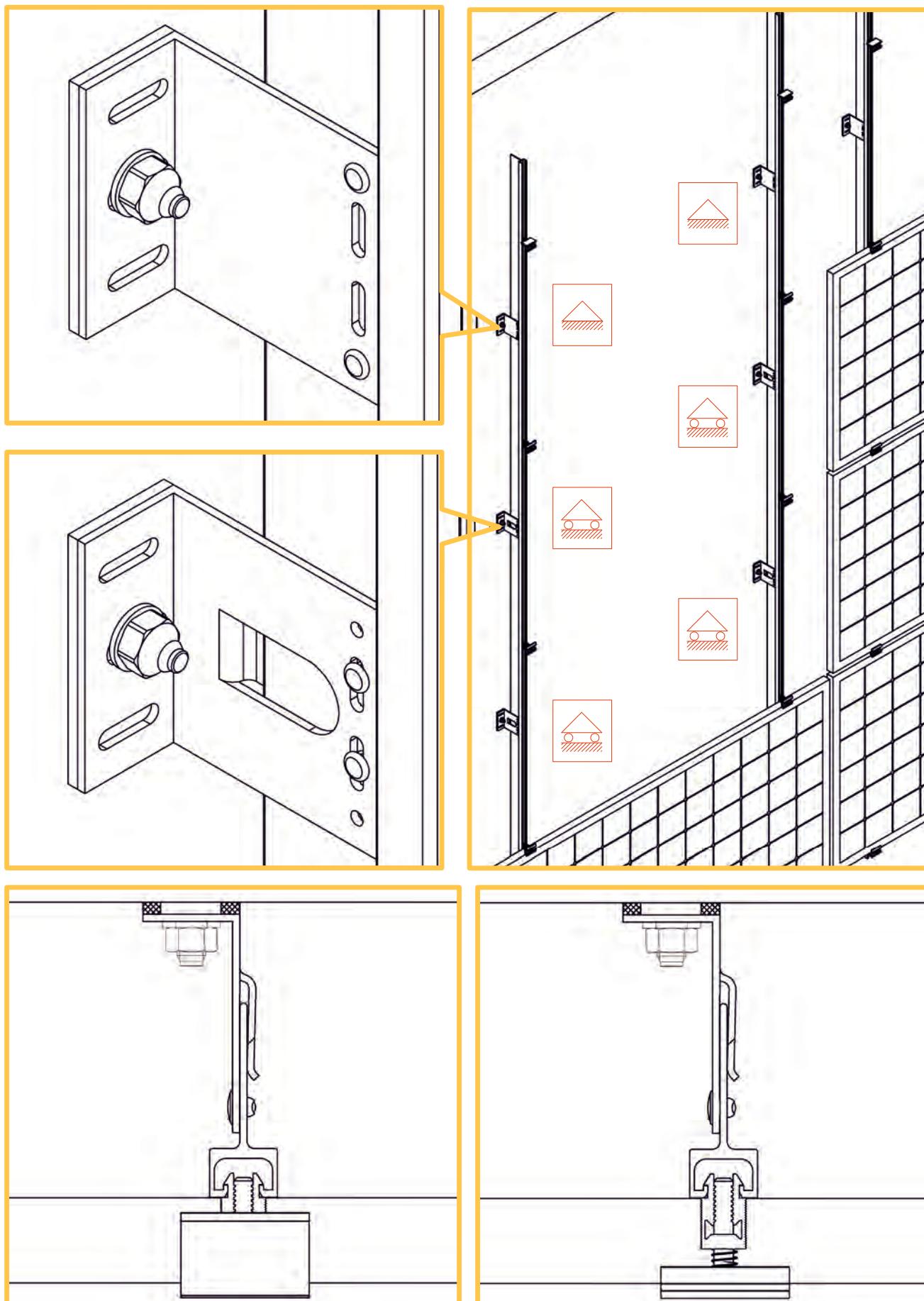
**SOLAR**



MONTAŽA NA FASADI  
FAÇADE INSTALLATION



DETALJ VERTIKALNE I KOSE FASADE - VENT FASADA  
DETAIL OF VERTICAL AND SLOPE FACADE - VENT FACADE



\* za montažu na fasadi konsultovati Tehnomarket VENT katalog / for the facade installation please consult the Tehnomarket VENT catalog

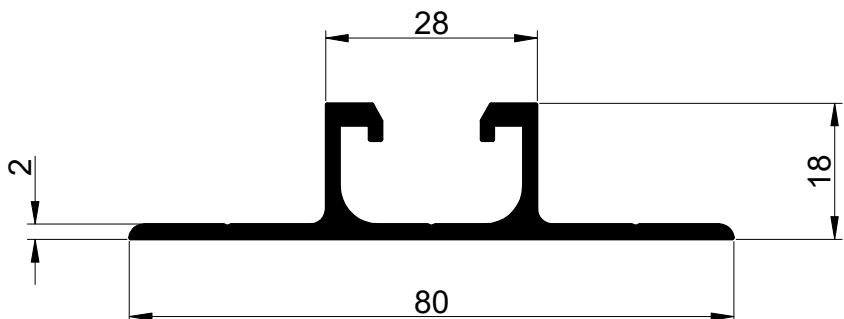




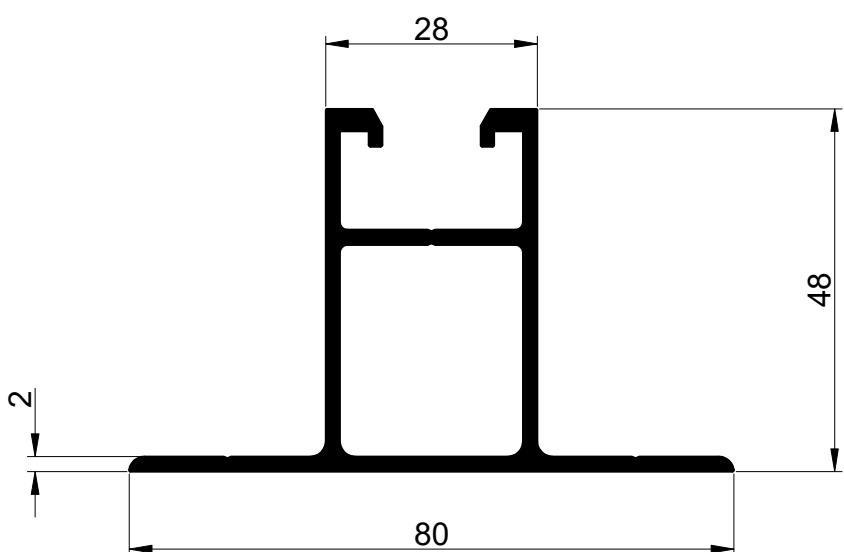
*Pregled sistema*  
System overview

# SOLAR

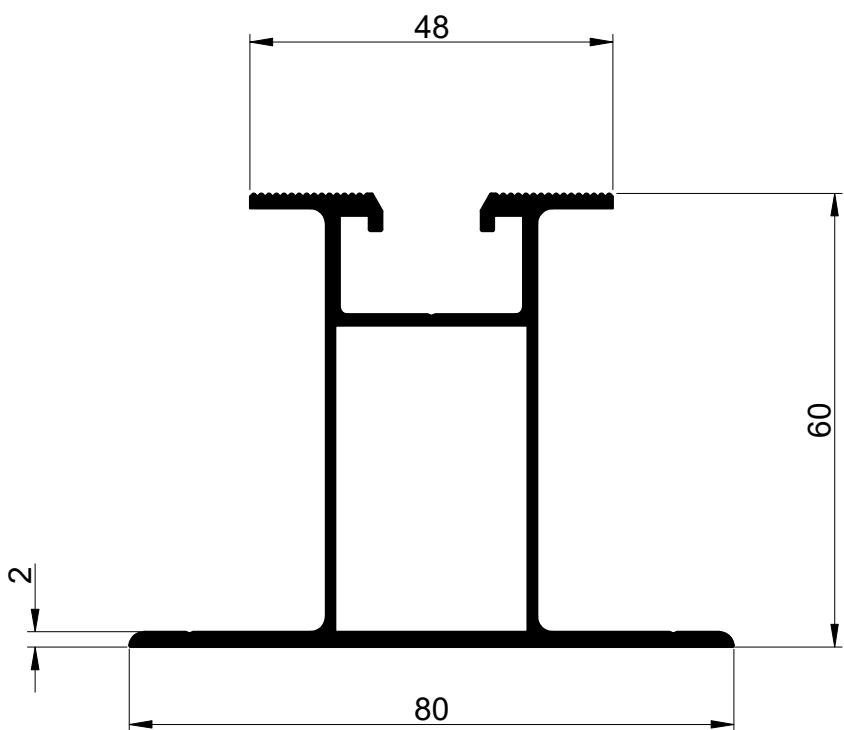
S01	0,740	kg/m`
S	2,691	cm <sup>2</sup>
I <sub>x</sub>	1,006	cm <sup>4</sup>
I <sub>y</sub>	9,778	cm <sup>4</sup>
W <sub>x</sub>	0,786	cm <sup>3</sup>
W <sub>y</sub>	2,445	cm <sup>3</sup>



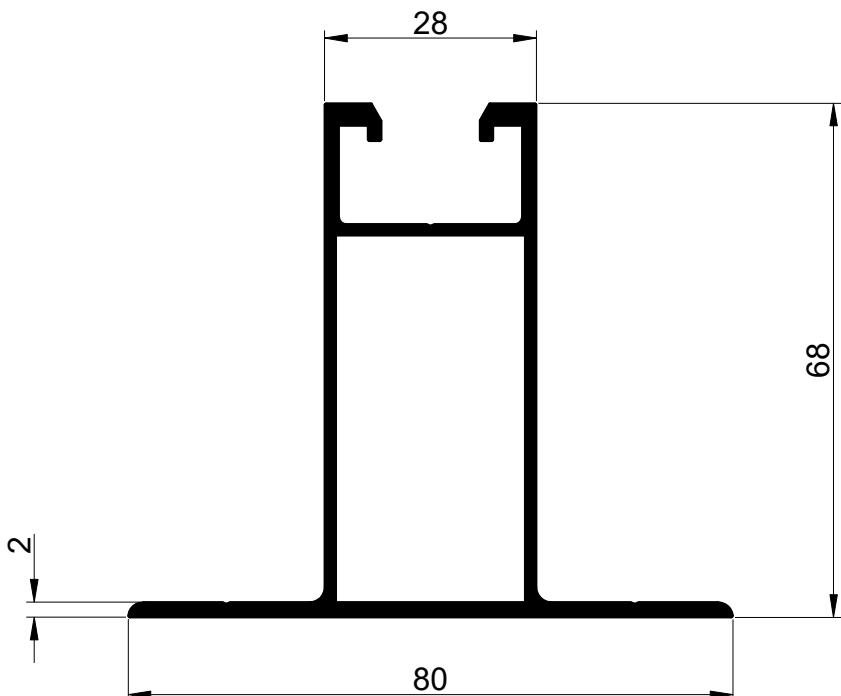
S02	1,164	kg/m`
S	4,232	cm <sup>2</sup>
I <sub>x</sub>	11,86	cm <sup>4</sup>
I <sub>y</sub>	12,39	cm <sup>4</sup>
W <sub>x</sub>	4,007	cm <sup>3</sup>
W <sub>y</sub>	3,098	cm <sup>3</sup>



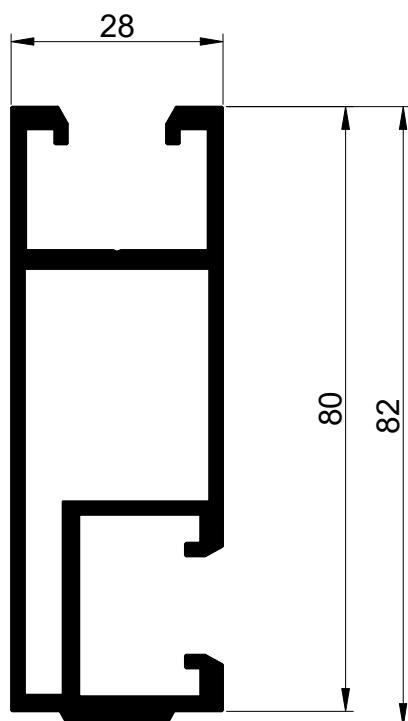
S16	1,216	kg/m`
S	4,423	cm <sup>2</sup>
I <sub>x</sub>	24,823	cm <sup>4</sup>
I <sub>y</sub>	13,156	cm <sup>4</sup>
W <sub>x</sub>	7,461	cm <sup>3</sup>
W <sub>y</sub>	3,289	cm <sup>3</sup>



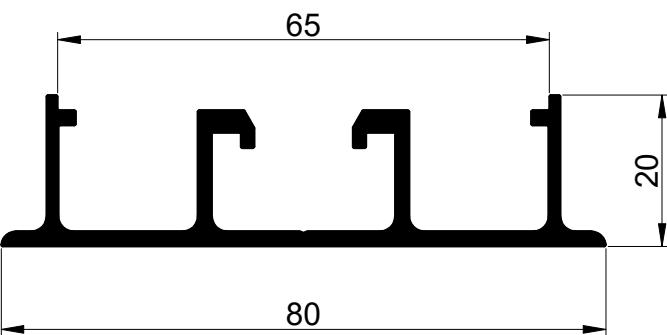
<b>S17</b>	1,227	kg/m`
<b>S</b>	4,462	cm <sup>2</sup>
<b>I<sub>x</sub></b>	28,632	cm <sup>4</sup>
<b>I<sub>y</sub></b>	12,482	cm <sup>4</sup>
<b>W<sub>x</sub></b>	7,078	cm <sup>3</sup>
<b>W<sub>y</sub></b>	3,12	cm <sup>3</sup>



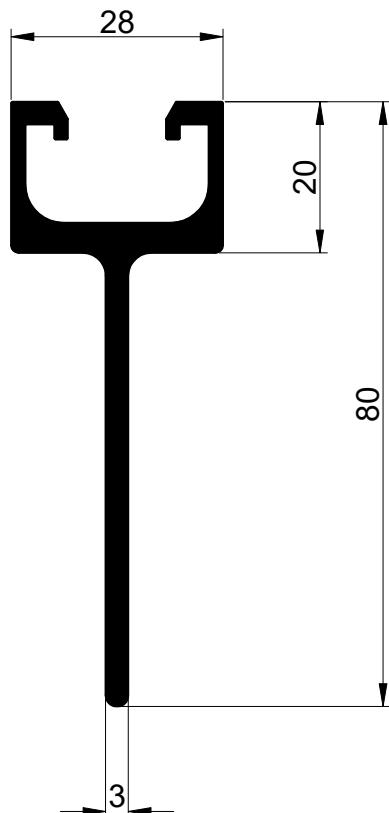
<b>S04</b>	1,521	kg/m`
<b>S</b>	5,532	cm <sup>2</sup>
<b>I<sub>x</sub></b>	39,59	cm <sup>4</sup>
<b>I<sub>y</sub></b>	6,053	cm <sup>4</sup>
<b>W<sub>x</sub></b>	9,101	cm <sup>3</sup>
<b>W<sub>y</sub></b>	4,118	cm <sup>3</sup>



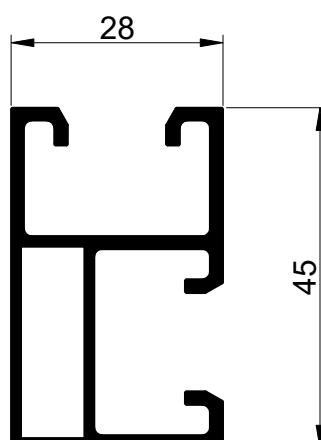
<b>S09</b>	0,908	kg/m`
<b>S</b>	3,3	cm <sup>2</sup>
<b>I<sub>x</sub></b>	1,41	cm <sup>4</sup>
<b>I<sub>y</sub></b>	17,26	cm <sup>4</sup>
<b>W<sub>x</sub></b>	1,05	cm <sup>3</sup>
<b>W<sub>y</sub></b>	4,32	cm <sup>3</sup>



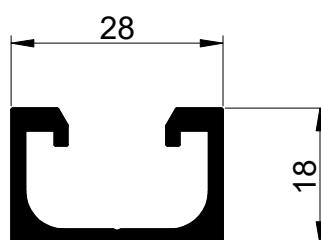
S05	1,111	kg/m`
S	4,038	cm <sup>2</sup>
I <sub>x</sub>	20,27	cm <sup>4</sup>
I <sub>y</sub>	2,23	cm <sup>4</sup>
W <sub>x</sub>	3,982	cm <sup>3</sup>
W <sub>y</sub>	1,593	cm <sup>3</sup>



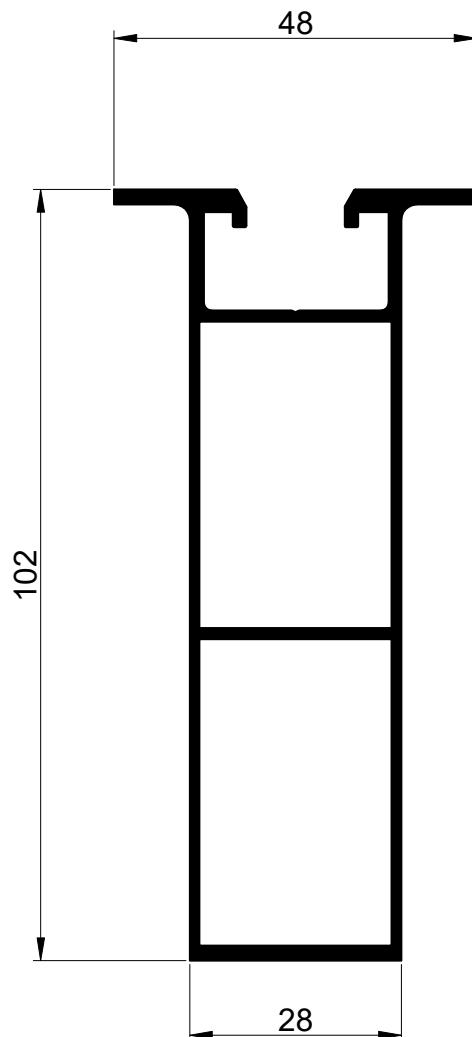
S18	0,745	kg/m`
S	2,708	cm <sup>2</sup>
I <sub>x</sub>	59,57	cm <sup>4</sup>
I <sub>y</sub>	28,63	cm <sup>4</sup>
W <sub>x</sub>	25,90	cm <sup>3</sup>
W <sub>y</sub>	19,75	cm <sup>3</sup>



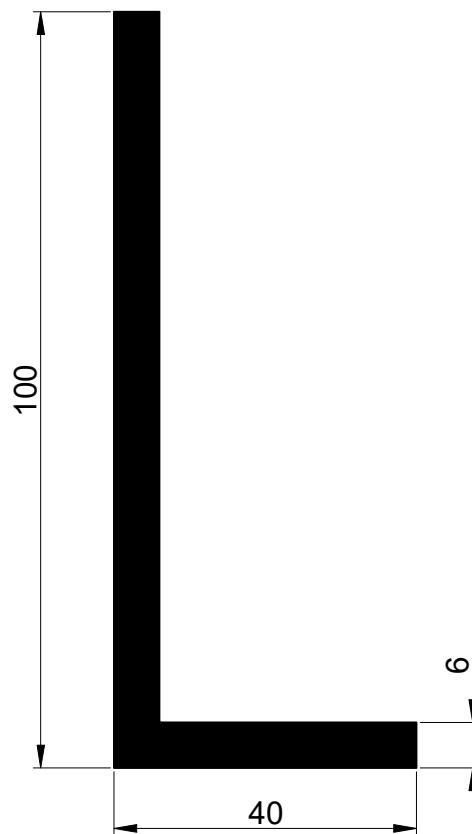
S03	0,454	kg/m`
S	1,653	cm <sup>2</sup>
I <sub>x</sub>	0,702	cm <sup>4</sup>
I <sub>y</sub>	1,858	cm <sup>4</sup>
W <sub>x</sub>	0,695	cm <sup>3</sup>
W <sub>y</sub>	1,327	cm <sup>3</sup>



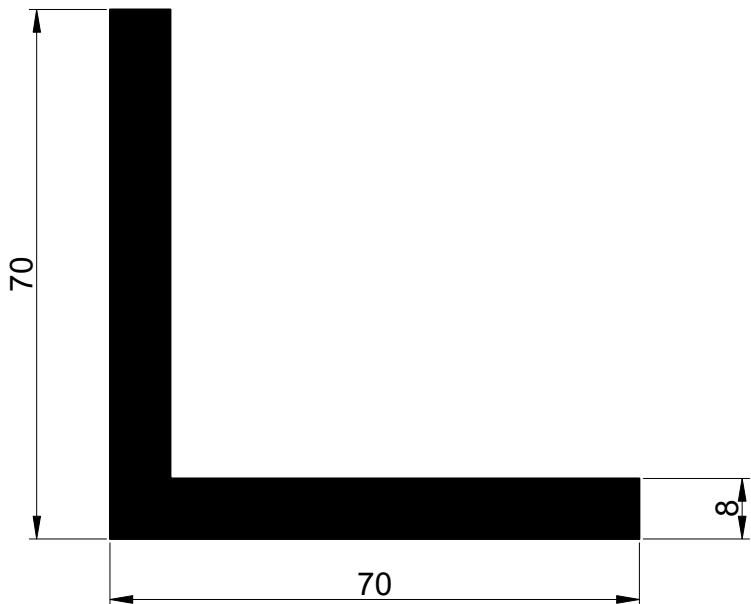
S14	1,343	kg/m`
S	4,885	cm <sup>2</sup>
I <sub>x</sub>	61,02	cm <sup>4</sup>
I <sub>y</sub>	7,51	cm <sup>4</sup>
W <sub>x</sub>	10,63	cm <sup>3</sup>
W <sub>y</sub>	3,13	cm <sup>3</sup>



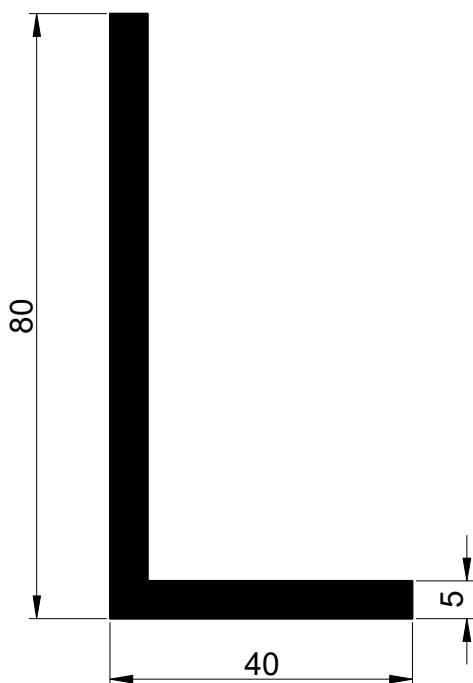
L401006	2,211	kg/m`
S	8,04	cm <sup>2</sup>
I <sub>x</sub>	83,69	cm <sup>4</sup>
I <sub>y</sub>	8,23	cm <sup>4</sup>
W <sub>x</sub>	13,52	cm <sup>3</sup>
W <sub>y</sub>	2,58	cm <sup>3</sup>



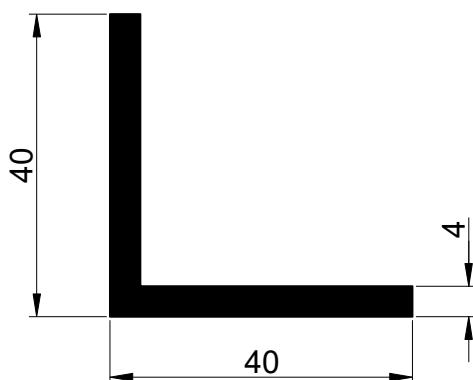
L70708	2,904	kg/m`
S	10,56	cm <sup>2</sup>
I <sub>x</sub>	76,95	cm <sup>4</sup>
I <sub>y</sub>	19,87	cm <sup>4</sup>
W <sub>x</sub>	15,53	cm <sup>3</sup>
W <sub>y</sub>	4,01	cm <sup>3</sup>

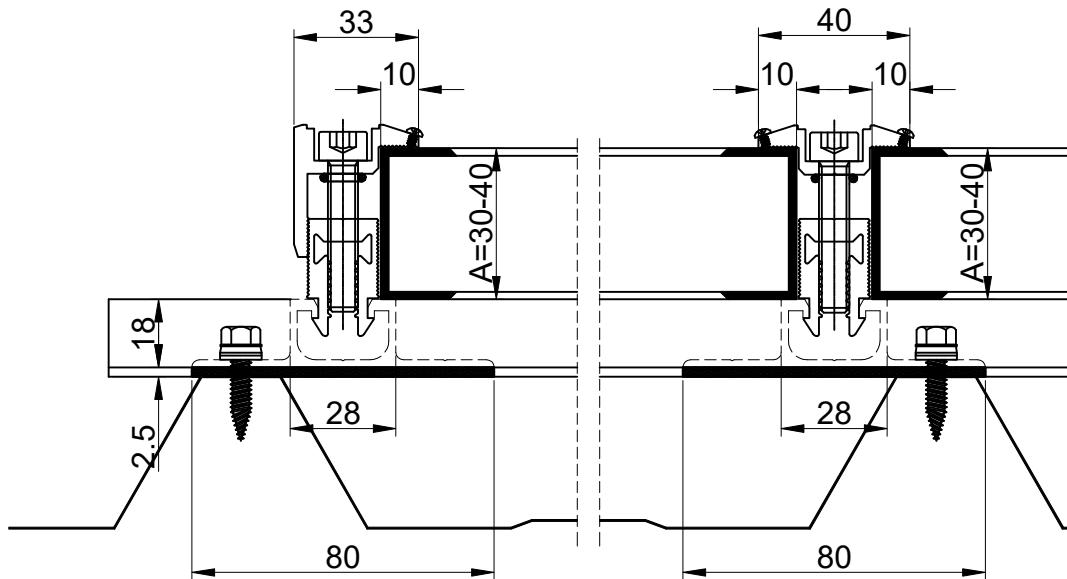


L40805	1,581	kg/m`
S	5,75	cm <sup>2</sup>
I <sub>x</sub>	38,489	cm <sup>4</sup>
I <sub>y</sub>	6,739	cm <sup>4</sup>
W <sub>x</sub>	7,487	cm <sup>3</sup>
W <sub>y</sub>	2,145	cm <sup>3</sup>



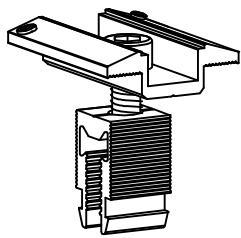
L40404	0,836	kg/m`
S	3,04	cm <sup>2</sup>
I <sub>x</sub>	7,337	cm <sup>4</sup>
I <sub>y</sub>	1,880	cm <sup>4</sup>
W <sub>x</sub>	2,572	cm <sup>3</sup>
W <sub>y</sub>	0,66	cm <sup>3</sup>



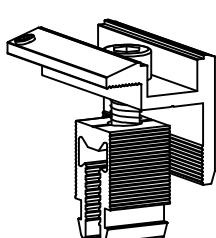


Klampe sa integrisanim sistemom za izjednačavanje potencijala  
*Alu Clamps with an integrated potential equalization system*

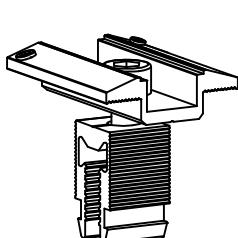
**S30 za/for:**  
A=35-40mm



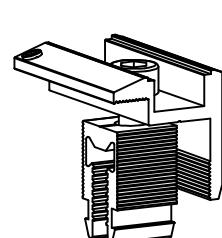
**S31 za/for:**  
A=35-40mm



**S80 za/for:**  
A=30-34mm

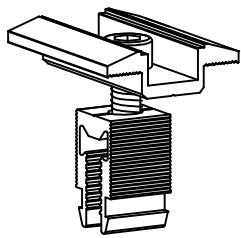


**S81 za/for:**  
A=30-34mm

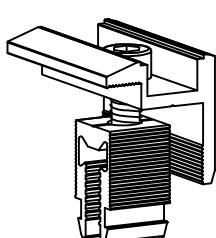


Klampe bez sistema za izjednačavanje potencijala  
*Alu Clamps without potential equalization system*

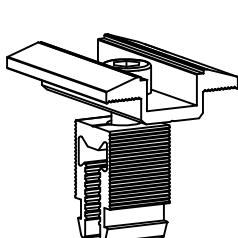
**S38 za/for:**  
A=35-40mm



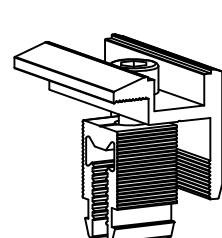
**S39 za/for:**  
A=35-40mm



**S82 za/for:**  
A=30-34mm

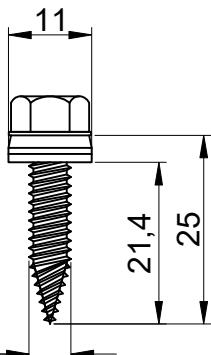


**S83 za/for:**  
A=30-34mm



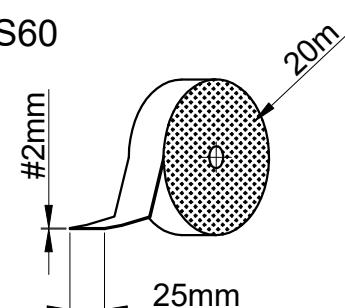
Samorezujući vijak za lim  
*Taping screw*

**S40**



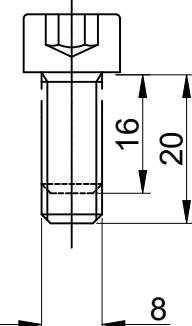
EPDM samolepljiva traka  
*EPDM duck tape*

**S60**



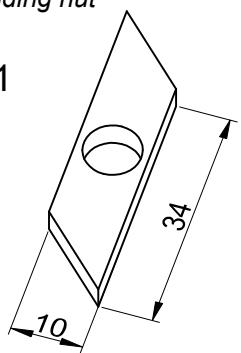
DIN vijak  
*DIN screw*

DIN 912  
M8x16  
M8x20

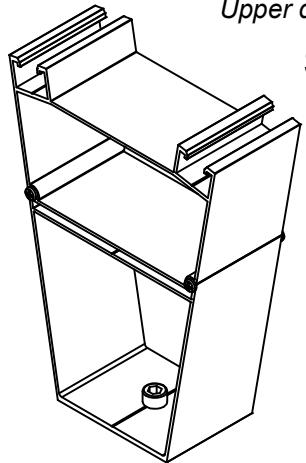


Klizna navrtka  
*Sliding nut*

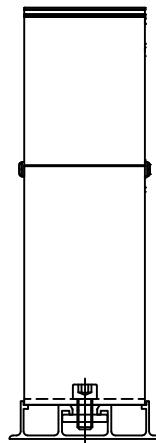
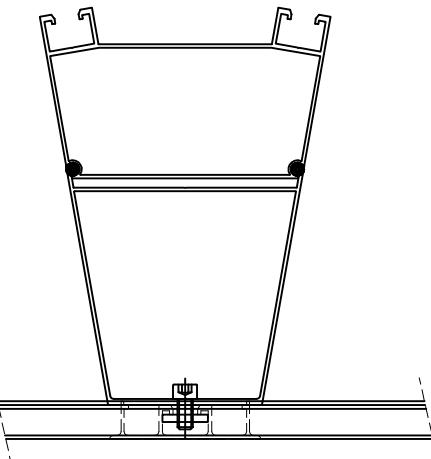
**S41**



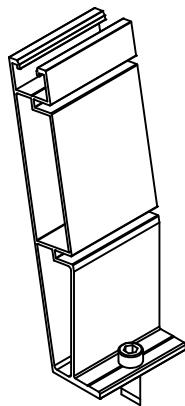
Gornji dvostruki nosač  
*Upper double bracket*



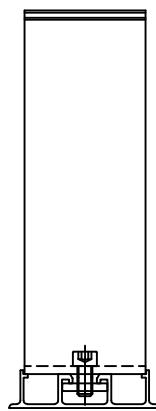
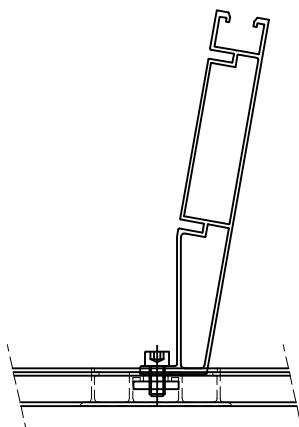
S33



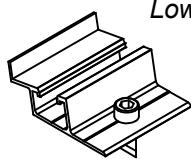
Gornji nosač  
*Upper bracket*



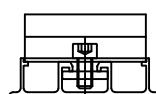
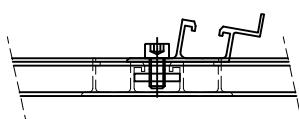
S34



Donji nosač  
*Lower bracket*

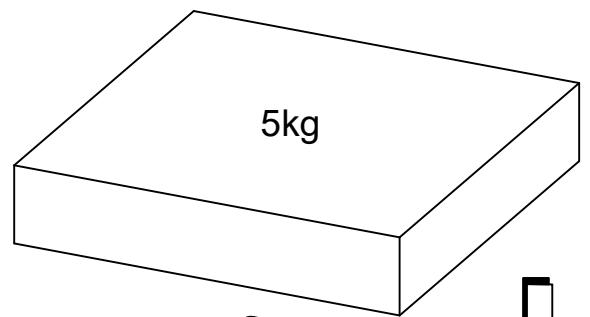


S32

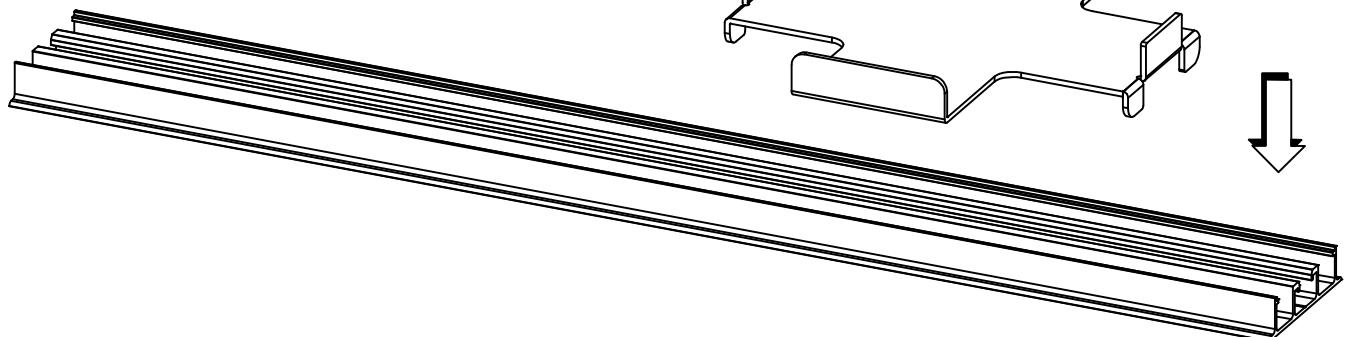


Nosači se isporučuju u sklopu sa vijkom i kliznom navrtkom  
*Brackets are delivered as a set with a screw and sliding nut*

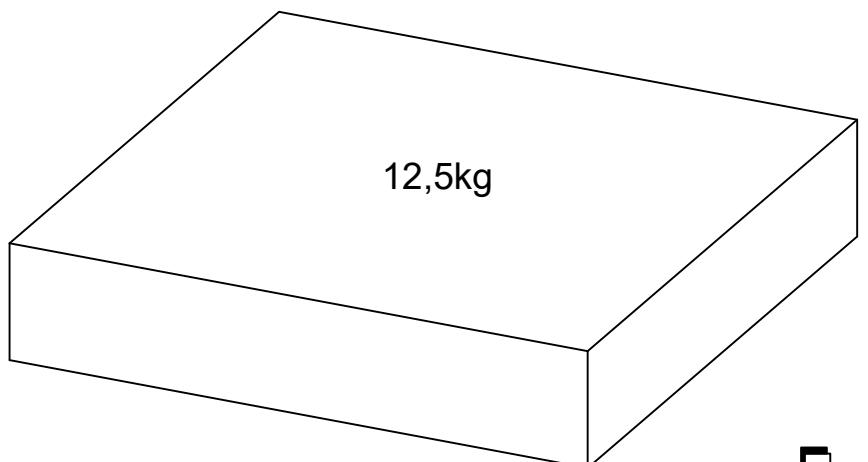
**S71** Betonski balast  
*Concrete ballast*



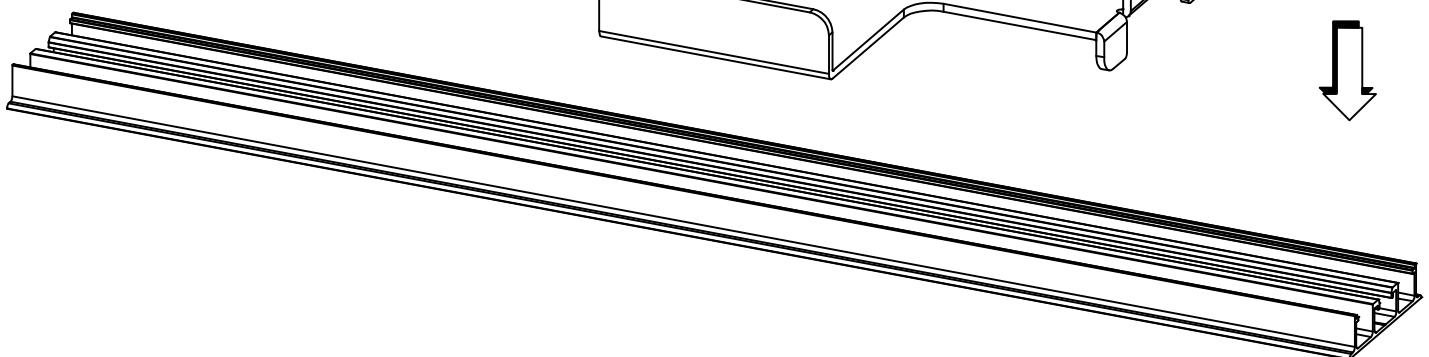
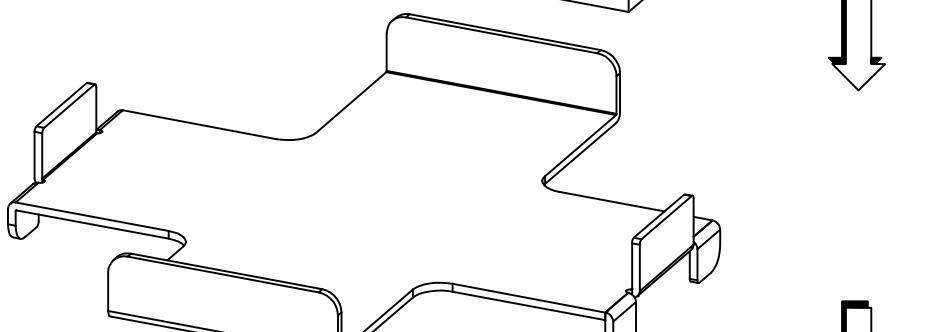
**S72** Nosač balasta (S71)  
*Ballast bracket (S71)*



**S74** Betonski balast  
*Concrete ballast*

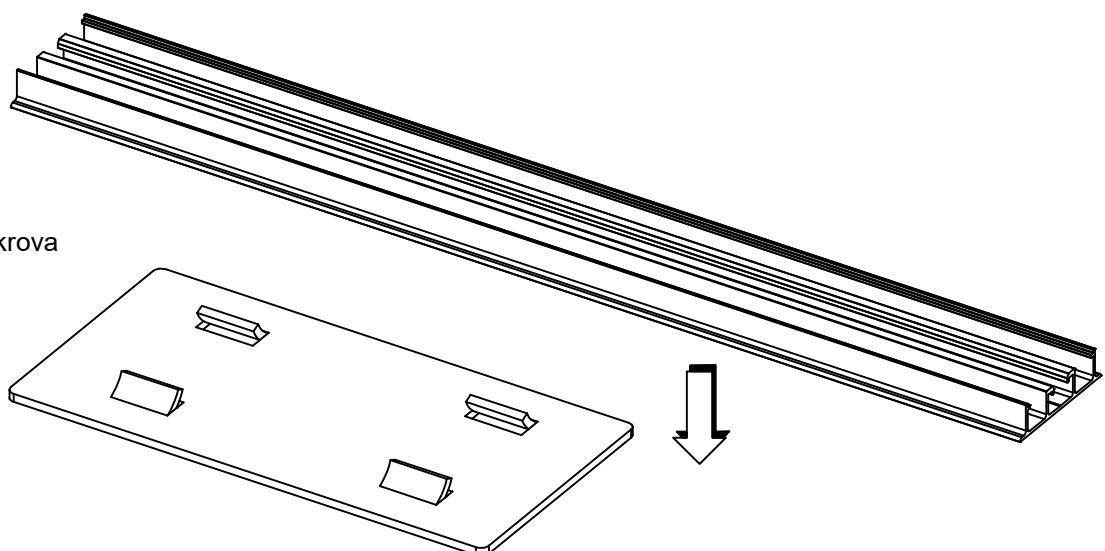


**S76** Nosač balasta (S74)  
*Ballast bracket (S74)*

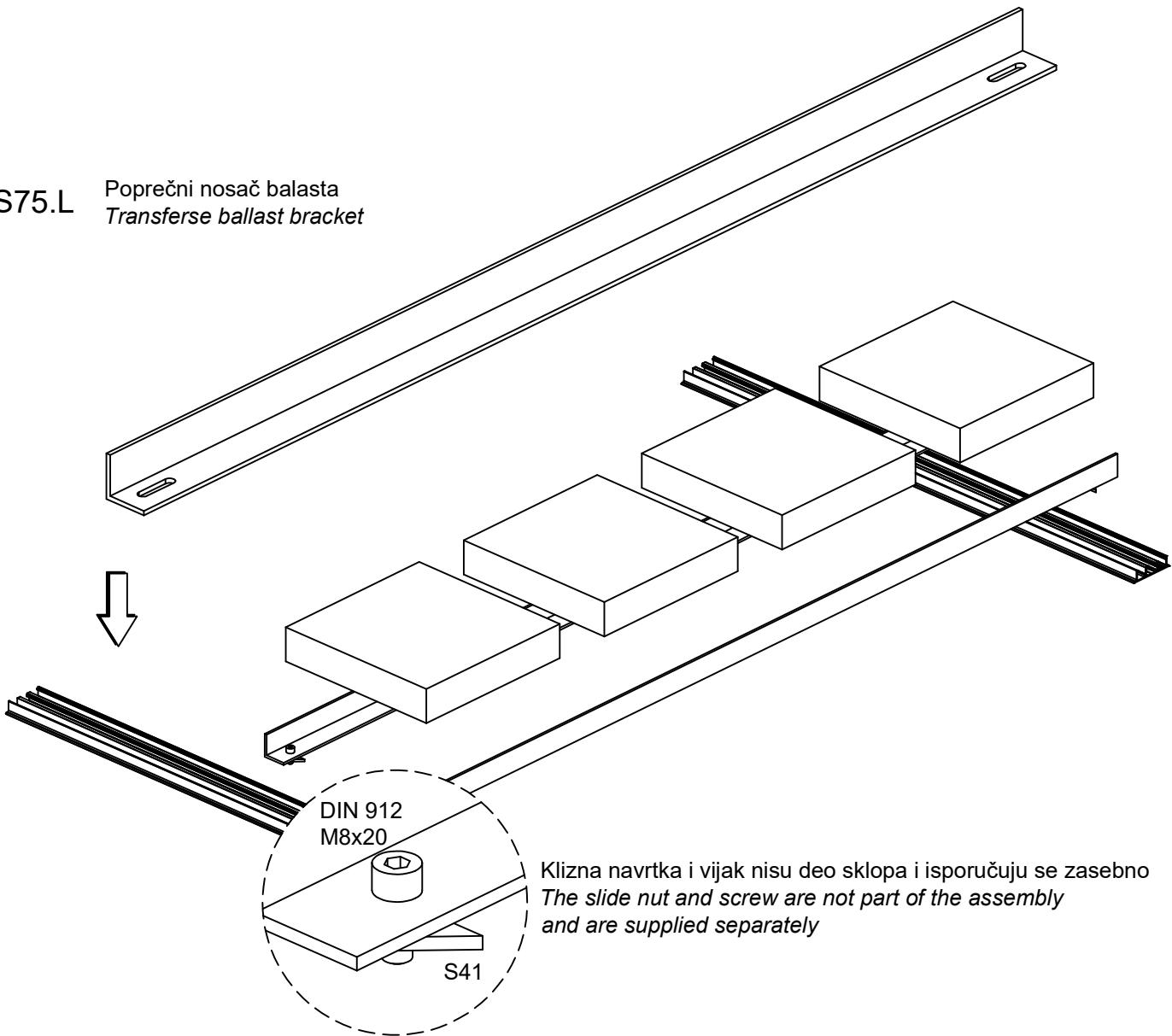


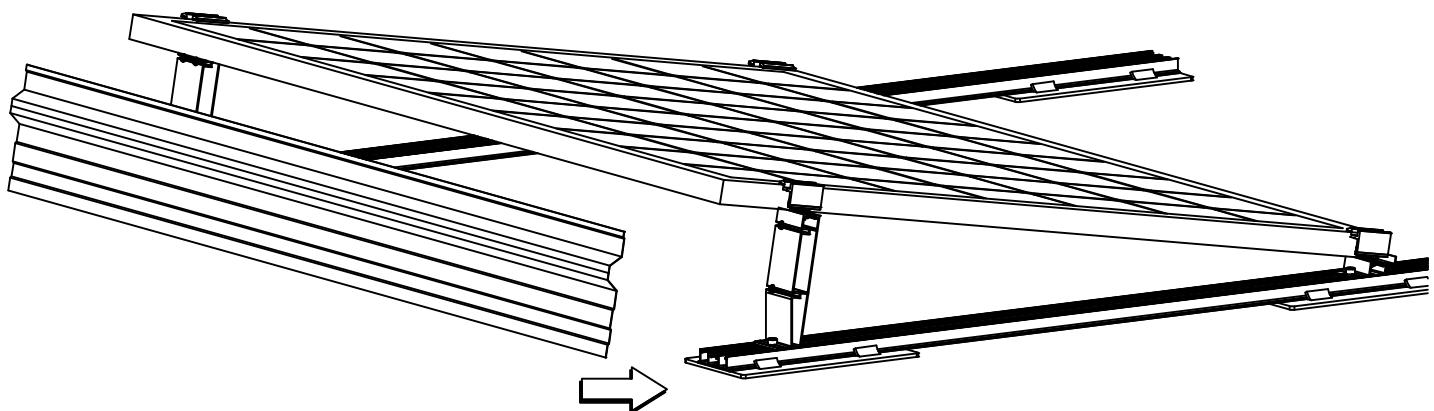
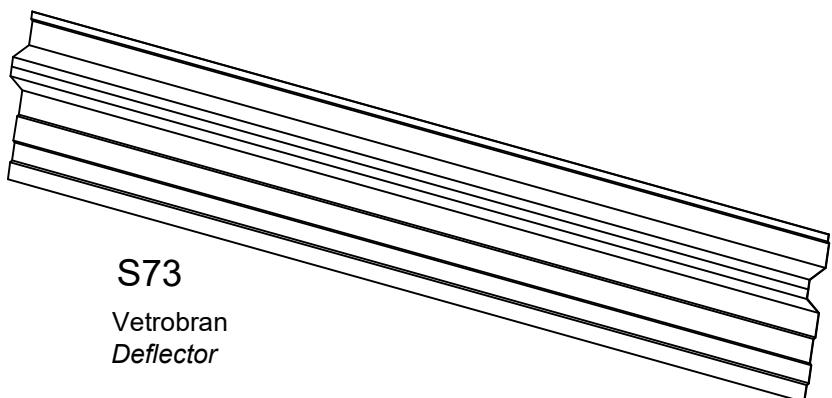
Podloška za zaštitu krova  
Roof protection mat

S70



S75.L Poprečni nosač balasta  
Transferse ballast bracket

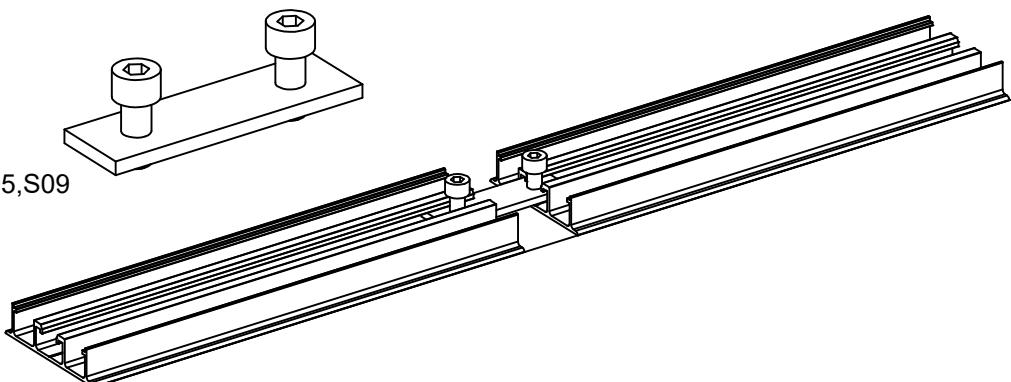




## S42

Spojnica šine  
Rail coupler

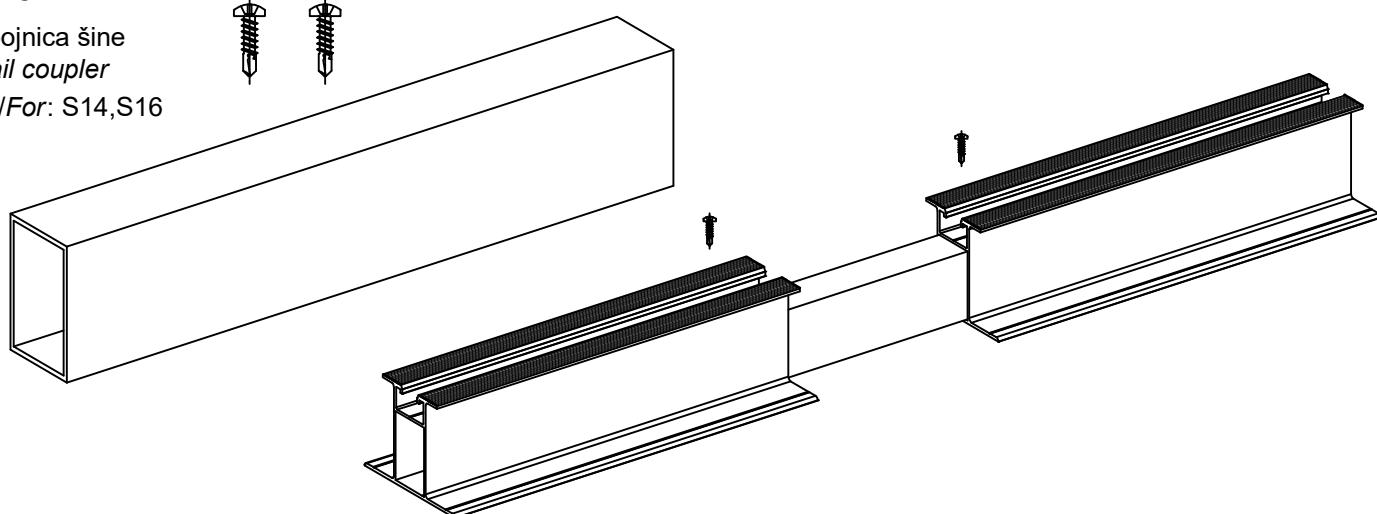
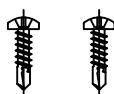
Za/For: S01,S02,S03,S04,S05,S09



## S43

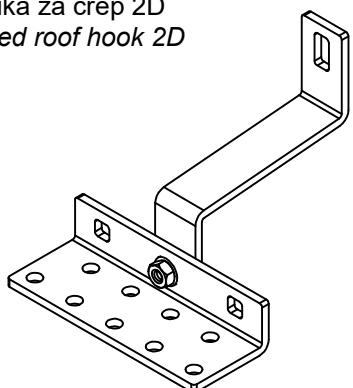
Spojnica šine  
Rail coupler

Za/For: S14,S16



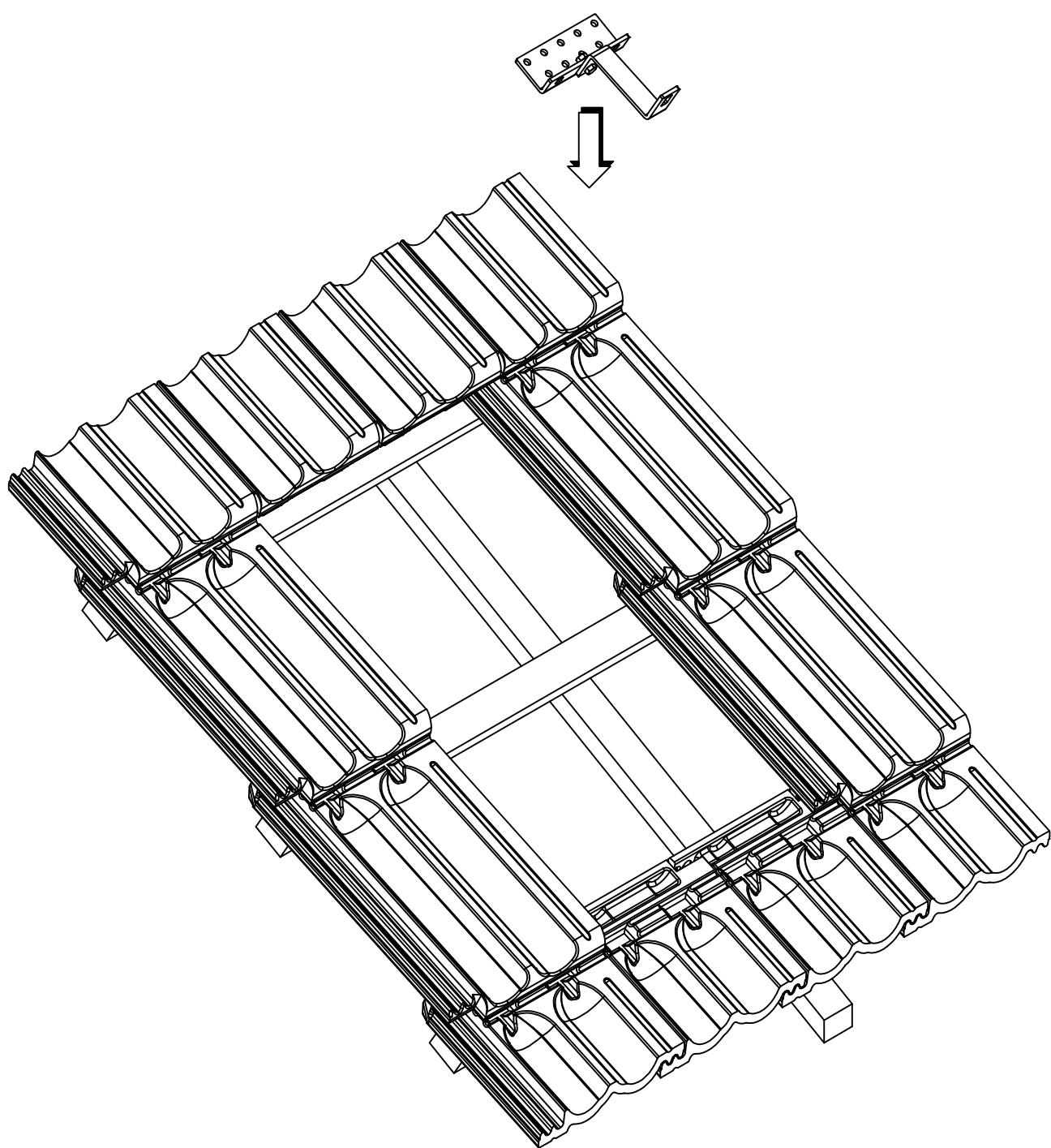
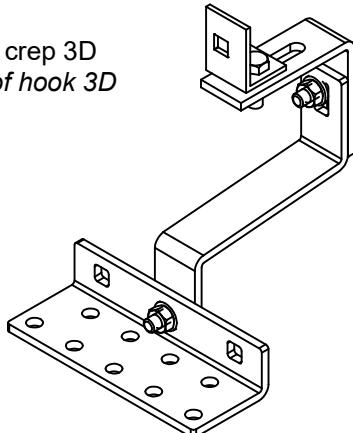
S90

Kuka za crep 2D  
Tiled roof hook 2D



S91

Kuka za crep 3D  
Tiled roof hook 3D

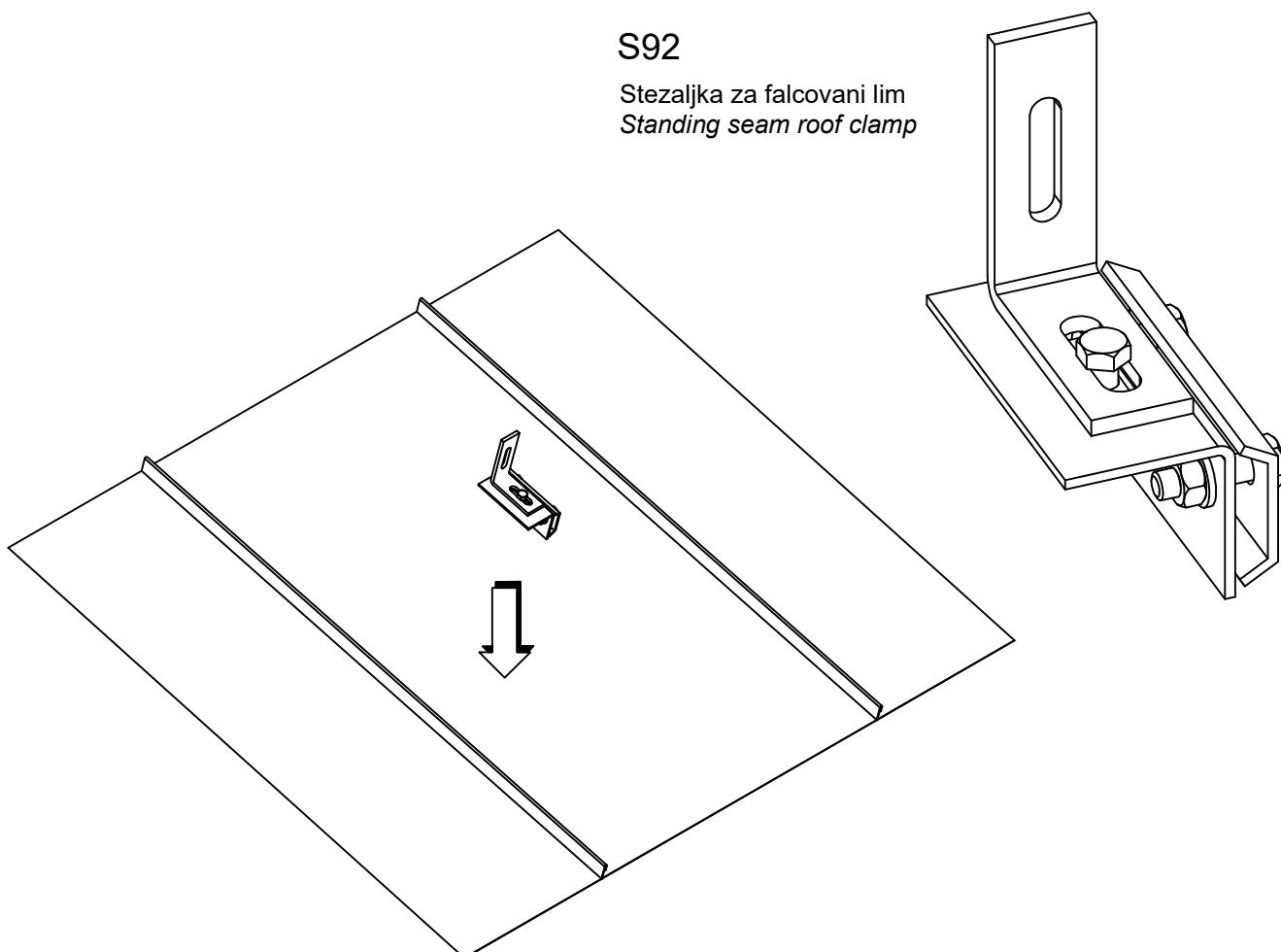




# SOLAR

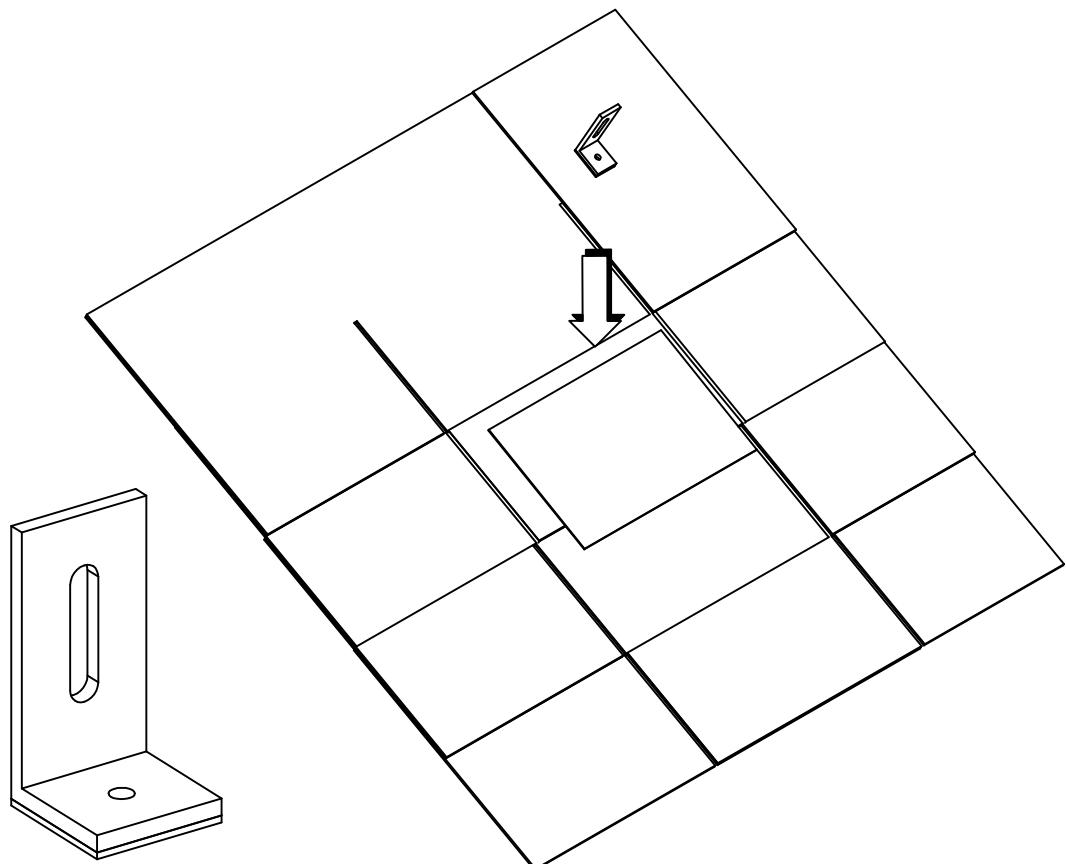
S92

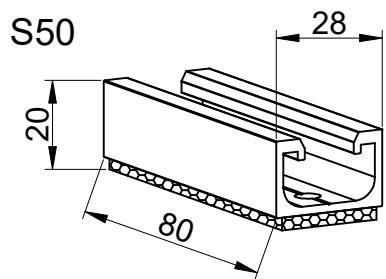
Stezaljka za falcovani lim  
Standing seam roof clamp



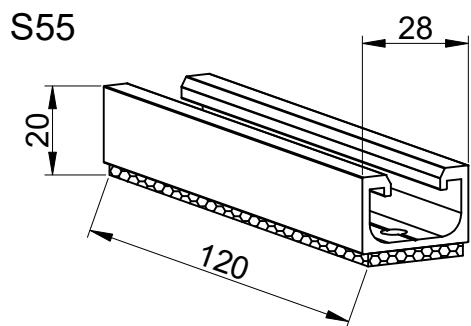
S48

Nosač za krov sa tegolom  
Bitumen roofing porter

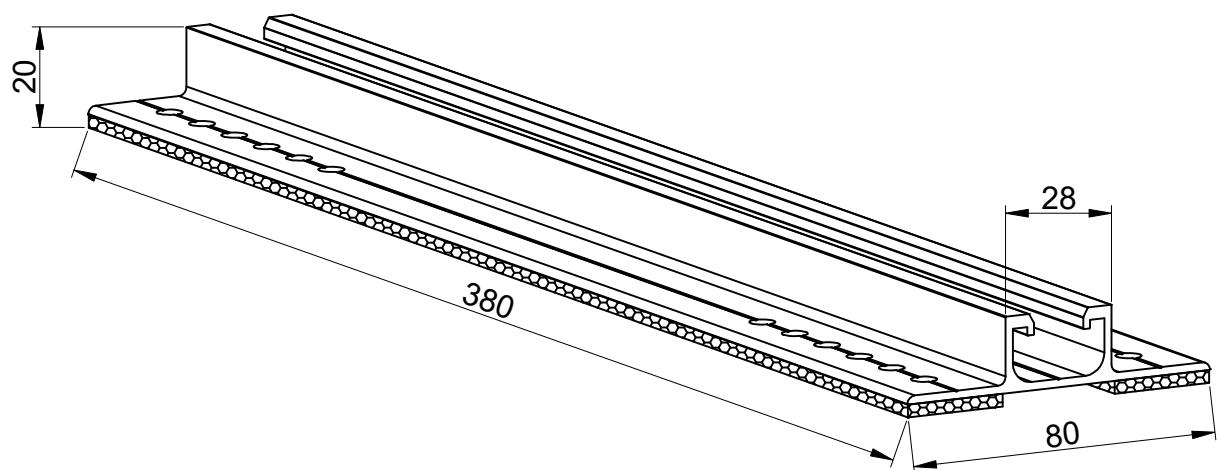




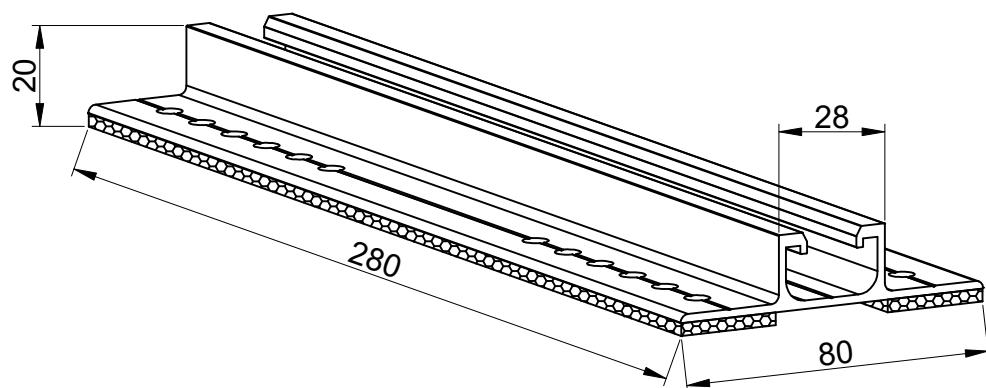
Alu šina  
Alu rail



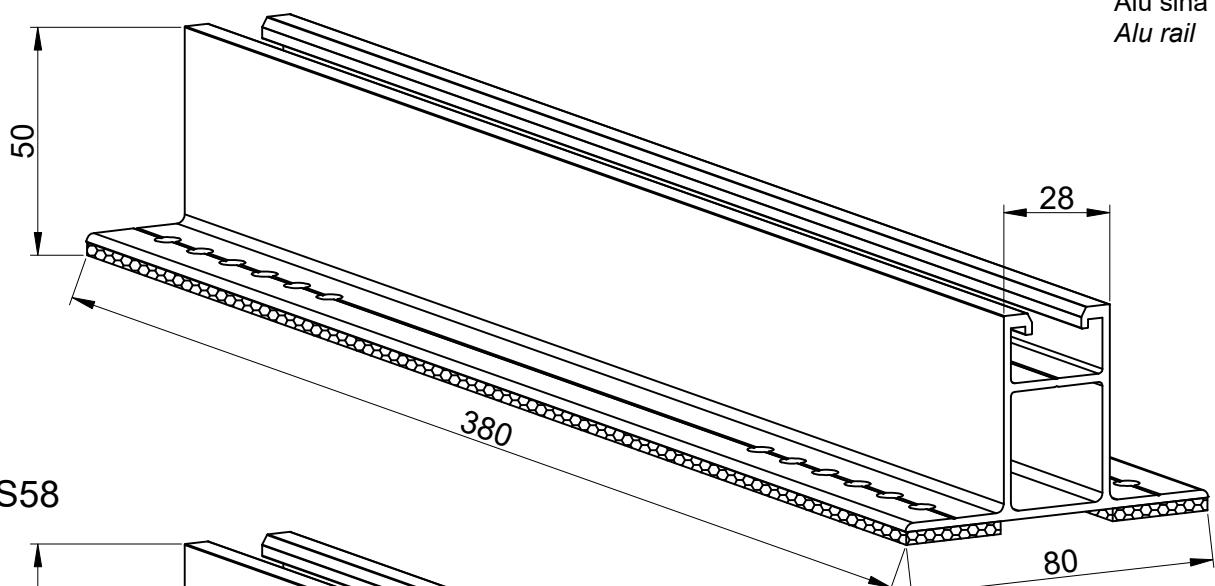
S51



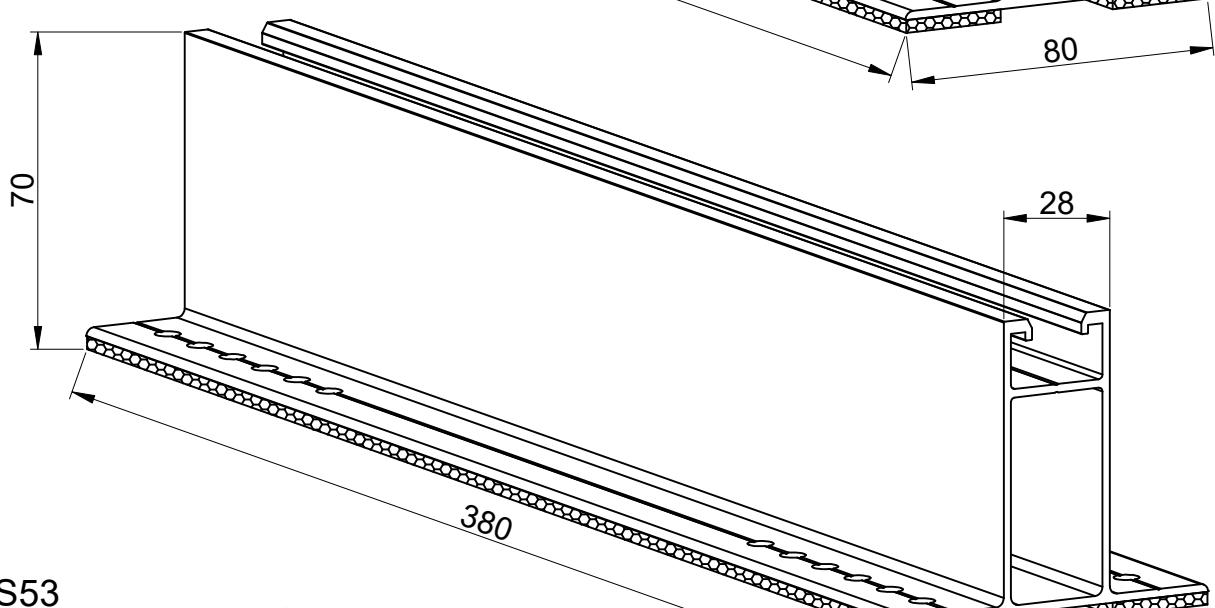
S54



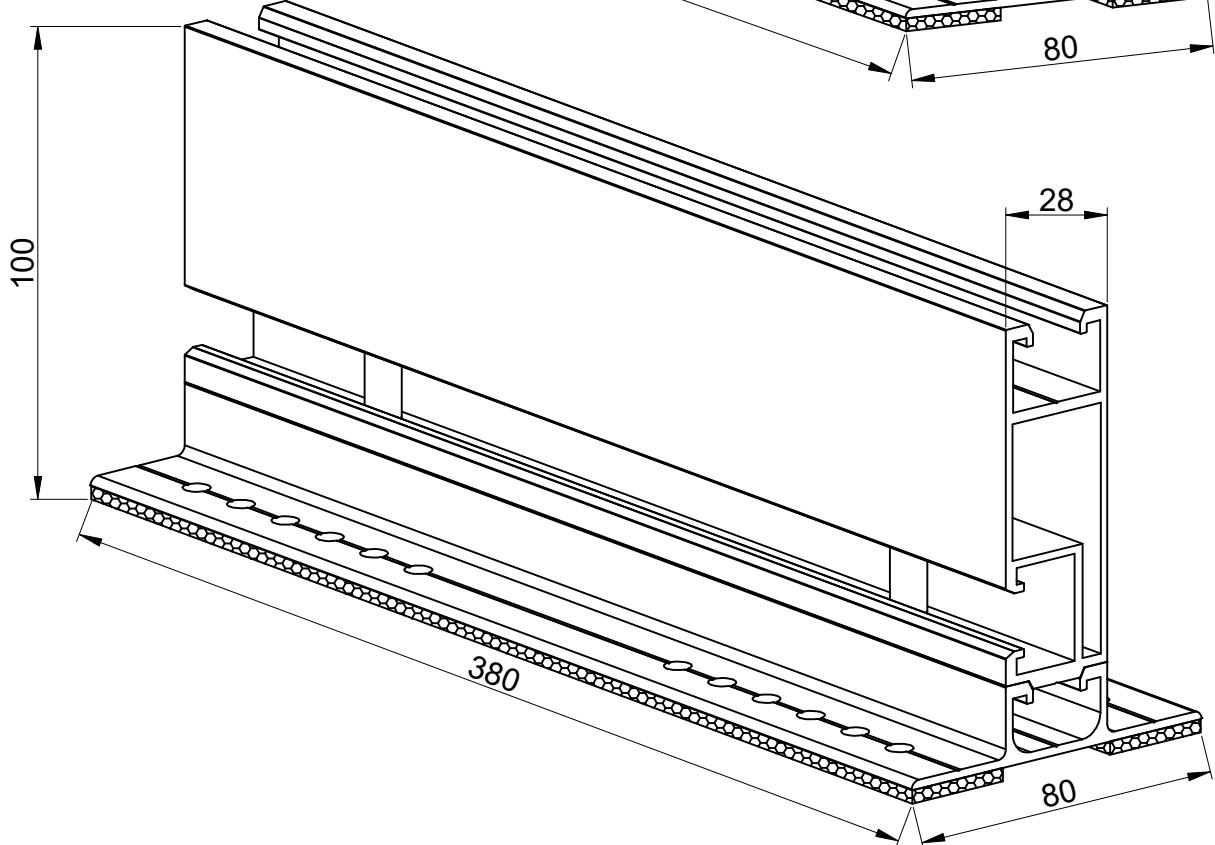
S52



S58



S53









**SISTEM PODKONSTRUKCIJA ZA SOLARNE PANELE  
SUBSTRUCTURE SYSTEM FOR SOLAR PANELS**

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