



**Mounting set roof-hook (tiled) for  
sunWin 24**

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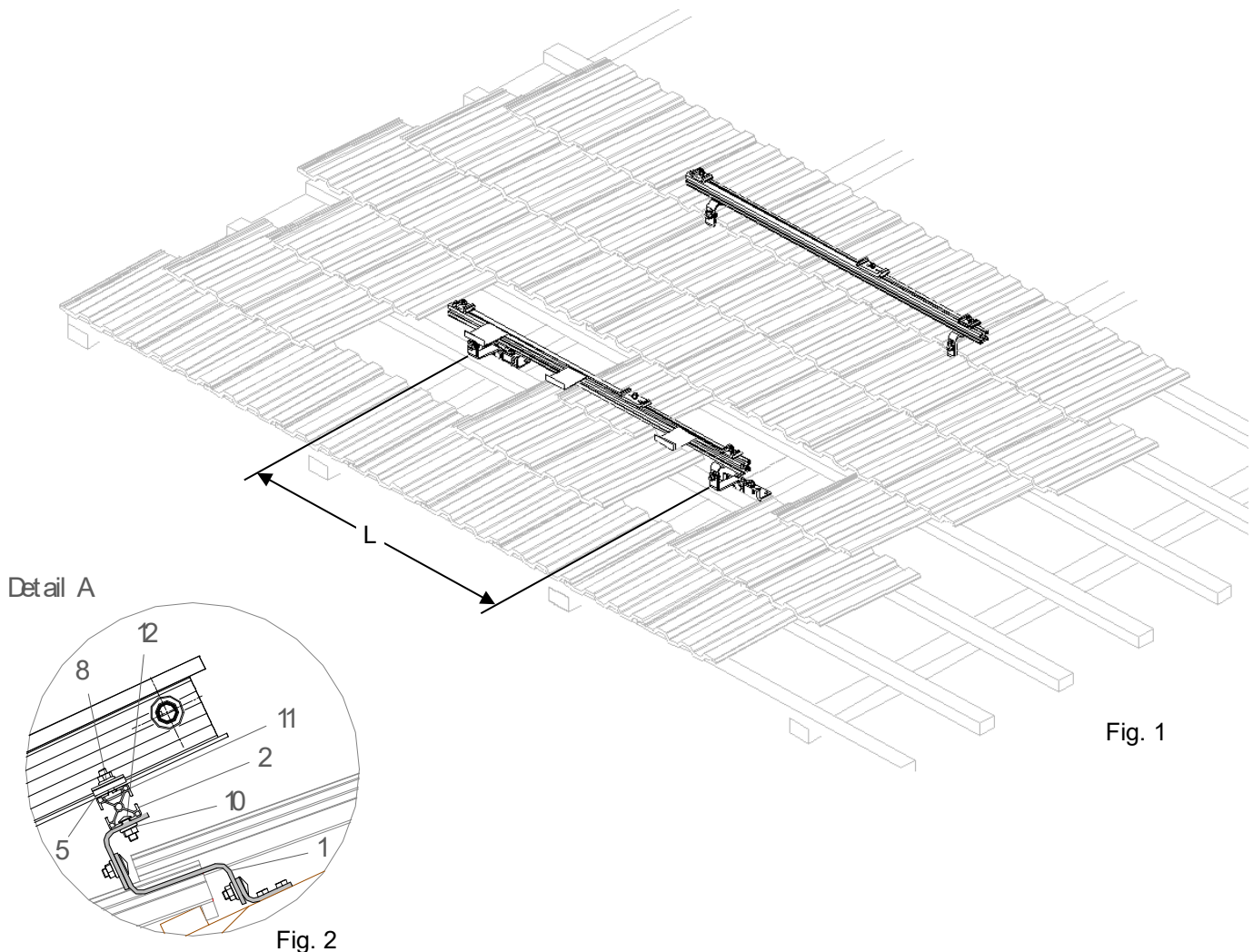


Fig. 1

Fig. 2

Pos.	Designation	Fixing rows (triangle)	
		2	3
2	Mounting rail (horizontal) Alu 35 x 35 mm	depending on panel / installation type	
5	Mounting clamp	depending on panel / installation type	
7	Slide-protection	3 (*)	4 (*)
8	Nut SS M8_V2A	depending on panel / installation type	
9	Connection piece	depending on panel / installation type	
11	Hammerhead-bolt M8 x 25 mm_V2A	depending on panel / installation type	
(*) in case of horizontally assembling use 1 pc. slide-protection additionally each			

Required accessories roof hook		Fixing rows (triangle)	
		2	3
1	Roof hook, adjustable	4	6
6	Screw TG 8,0 x 100 mm	12	18
10	Nut SS M8_V2A	4	6
12	Carriage-bolt M8 x 20 mm_V2A	4	6
Mounting clamps			
5a	sunWin 24 ... horizontal	1000235702	
5b	sunWin 24 ... vertical small	1000235702	
	sunWin 24 ... vertical wide	1000230261	



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1. Determine the position of the panels on the roof. For each roof hook (1) one tile, which is located exactly on a rafter, has to be removed. Consider that the upper roof hooks (1) have to be mounted two tile rows below the roof ridge!

Number of fixing points sunWin 24													
vertical													
Number of panels sunWin 24 / 24M	1	2	3	4	5	6	7	8	9	10	11	12	
Installation racks	2	3	4	5	7	8	9	11	12	13	14	15	
L (mm) → see Fig. 1	750	839	967	1032	892	939	975	902	932	956	976	994	
l (mm) → see Fig. 7	min. 1600 mm / max. 1850 mm												
Slide-protection (pcs.)	2	3	4	5	6	7	8	9	10	11	12	13	
horizontal													
Number of panels sunWin 24 / 24M	1	2	3	4	5	6	7	8	9	10	11	12	
Installation racks	2	4	6	8	10	12	14	16	18	20	22	24	
L (mm) → see Fig. 1	1400	1148	1106	1087	1077	1070	1066	1063	1060	1058	1056	1055	
l (mm) → see Fig. 7	min. 815 mm / max. 930 mm												
Slide-protection (pcs.)	2	4	6	8	10	12	14	16	18	20	22	24	

**ATTENTION!**  
The above tables serve as guidelines. The actual required number of rows depends on fixing the structural requirements on site, and depending on the application with the applicable standards and regulatory documents, in particular, the standards EN1991-1, DIN1055 respectively ÖNORM M7778.

The installation and positioning of the different clamps (5a, 5b, 5c) between the individual panels is explained from page 4 on.

2. With the 3 press cuts on the base line of the brackets (1) lateral displacements can be compensated if necessary (Fig.4).
3. The brackets of the roof hook (1) are adjusted to the height of the roof battens and/or tiles using the two square neck carriage bolts. The distance between the panels and the roof should be kept as small as possible. The brackets are fixed to the rafters using the frame screws (6) as illustrated in Fig. 4 and 5.
4. The mounting rail (2) is fixed horizontally to the roof hooks at the top and bottom by use of carriage bolts M8 and M8 nuts (10+12). Insert them into the lower groove of the rail and screw them into the elongated hole of the roof hooks (see Fig 2).

Make sure that the rail (2) is oriented as straight as possible to the roof.  
In the case of several mounting rails (2) are connected together, a connector set (9) must be inserted and screwed into the corresponding guide of the profile (Fig. 6)

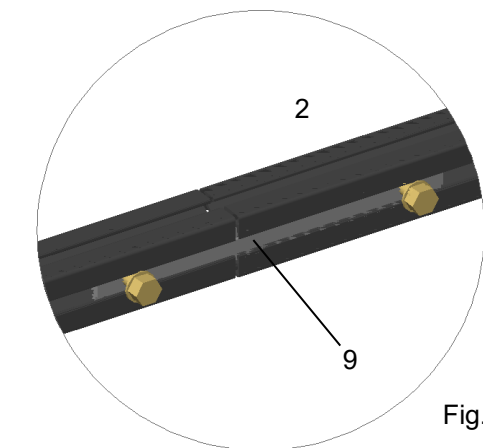


Fig. 6

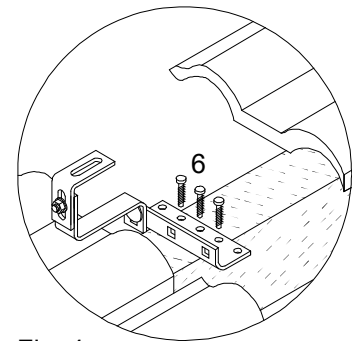


Fig. 4

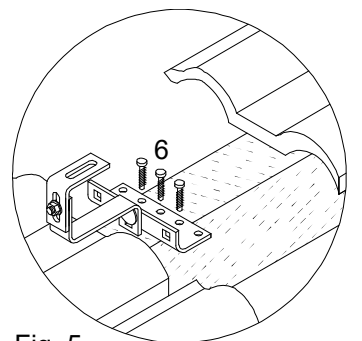
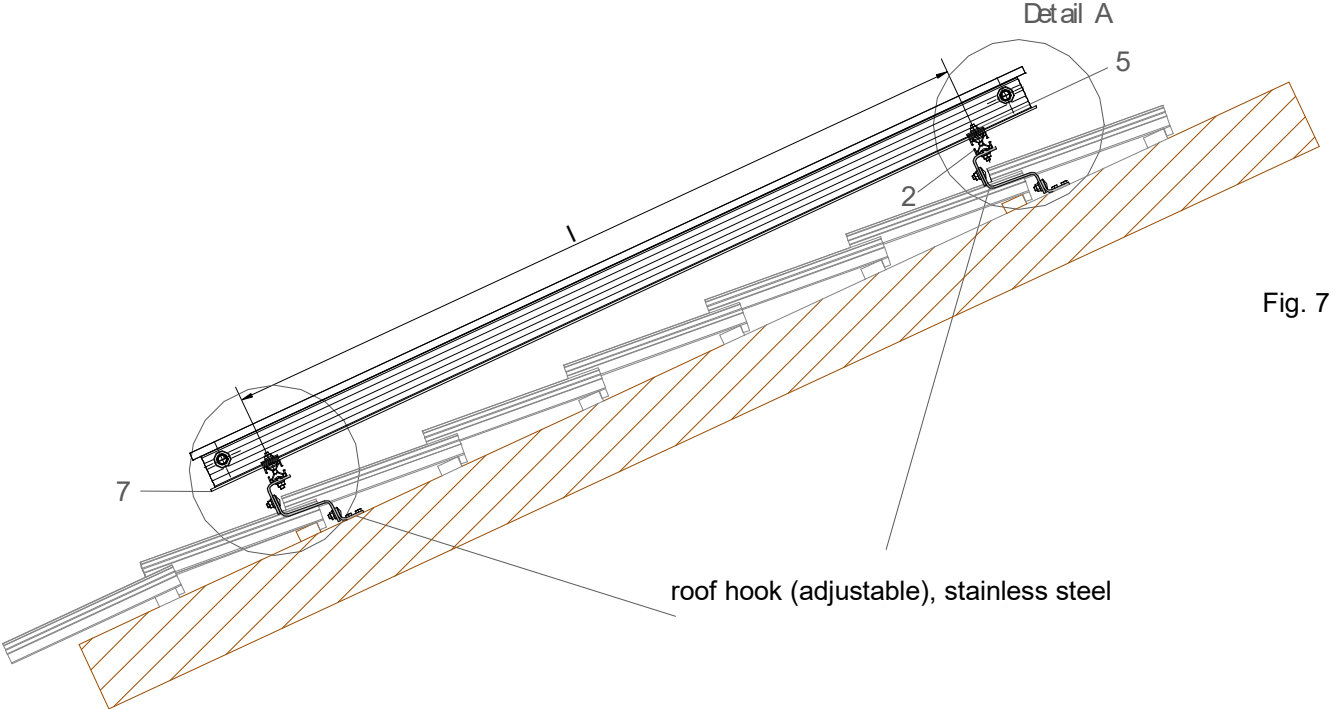


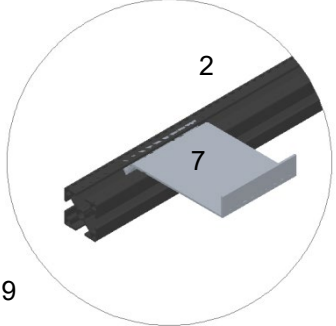
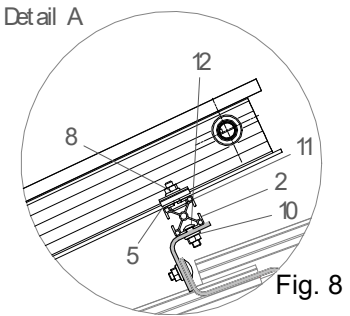
Fig. 5

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roof hook (adjustable), stainless steel

5. Put the slide-protection (7) into the mounting rail (2) at the bottom (Fig. 9). In the next step put the panels on the prepared construction. The panel frame fits closely to the slide-protection.
6. Insert the hammerhead-bolts (11) into the groove of the mounting rail (Detail A, see Fig. 8). In the next step fix the panels with the clamps (5) by use of hammerhead-screw (11) and nuts (8) at the mounting rail sideways 2 times on top and bottom (see Fig. 7).

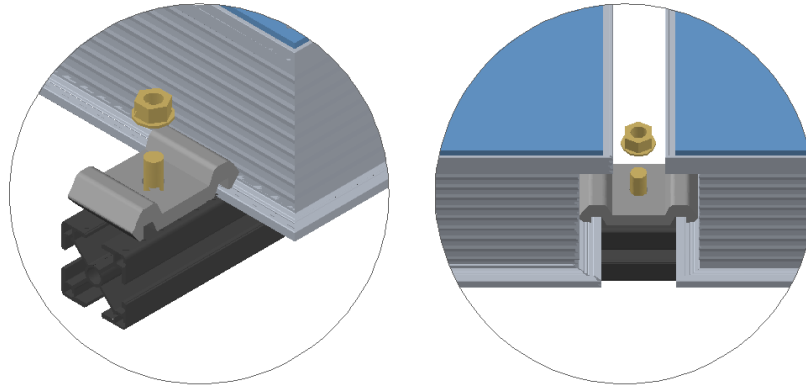




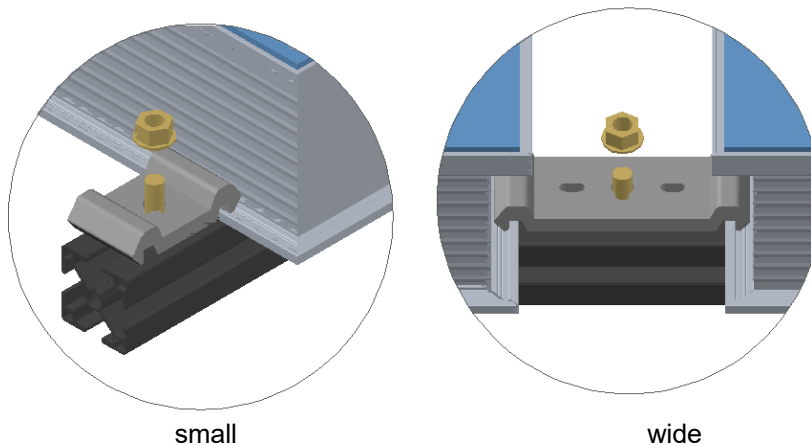
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The mounting clamps (5) have to be placed according to the panel type as follows:

a.) sunWin 24 ... horizontal



b.) sunWin 24 ... vertical

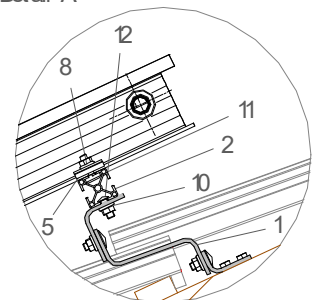


The hydraulic connection between each panel is made by a clamp ring screwing. First, tighten them using 2 open-ended spanner to obtain the proper distance between the panels.

**NOTE! Before screwing of the compounds have the treads and the sealing surface are greased (e.g. silicone milk). It's necessary to pull against while screwing otherwise the collecting pipe could be rotated!!!**

7. Check finally that the clamps (5) and screws (11) and (12) are fastened accurately on the construction as in the Figure nearby illustrated.

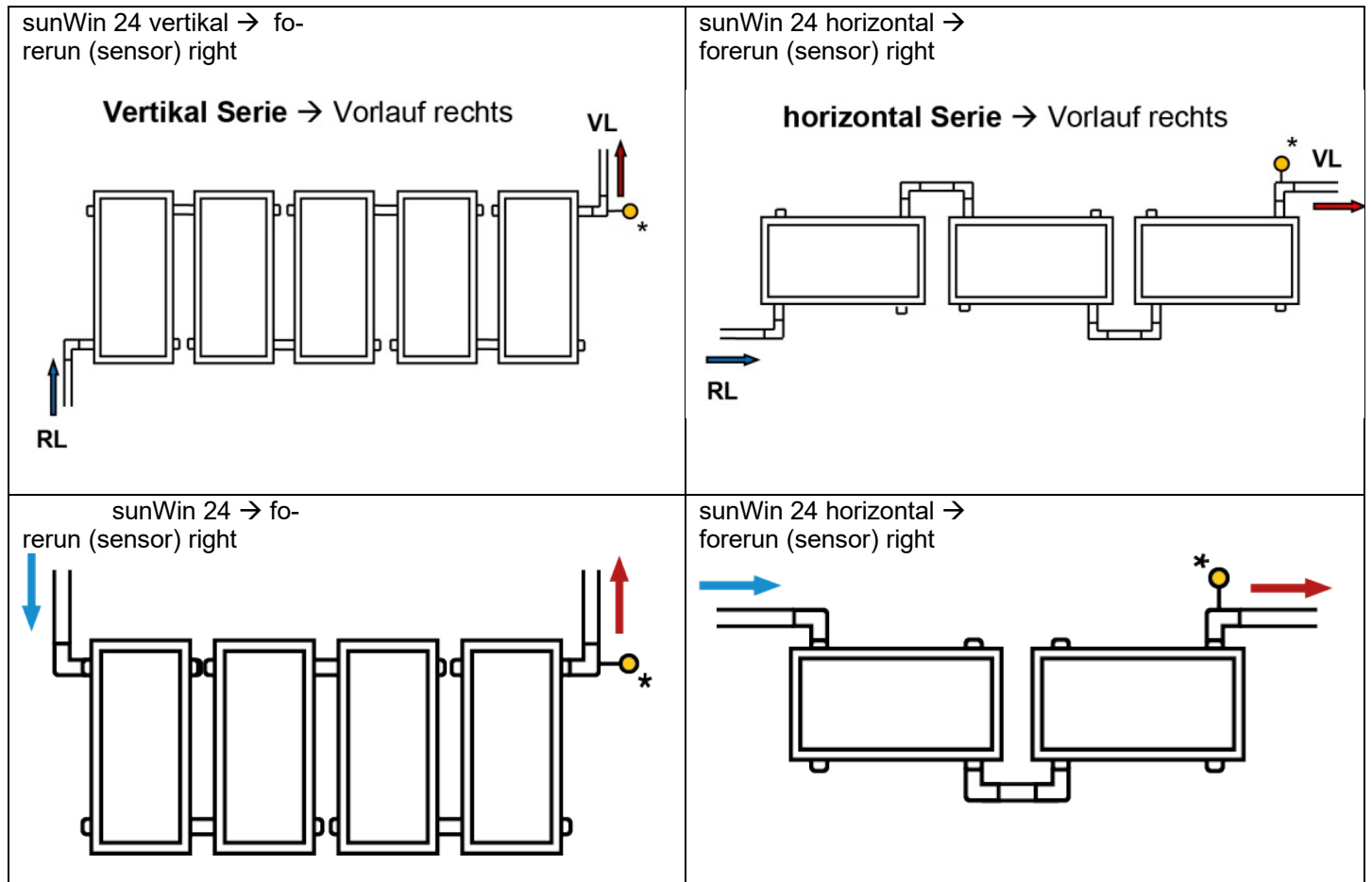
Detail A





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## recommended interconnection-schemes:



### ATTENTION!

All bolts and nuts for weight-bearing connections have to be tightened with a calibrated torque handle. The torque table can be found in the „Safety and installation manual for flat plate collectors“.