



***Slated roof assembly set for on roof collectors
gevoSol / sunnySol***



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Fig. 1

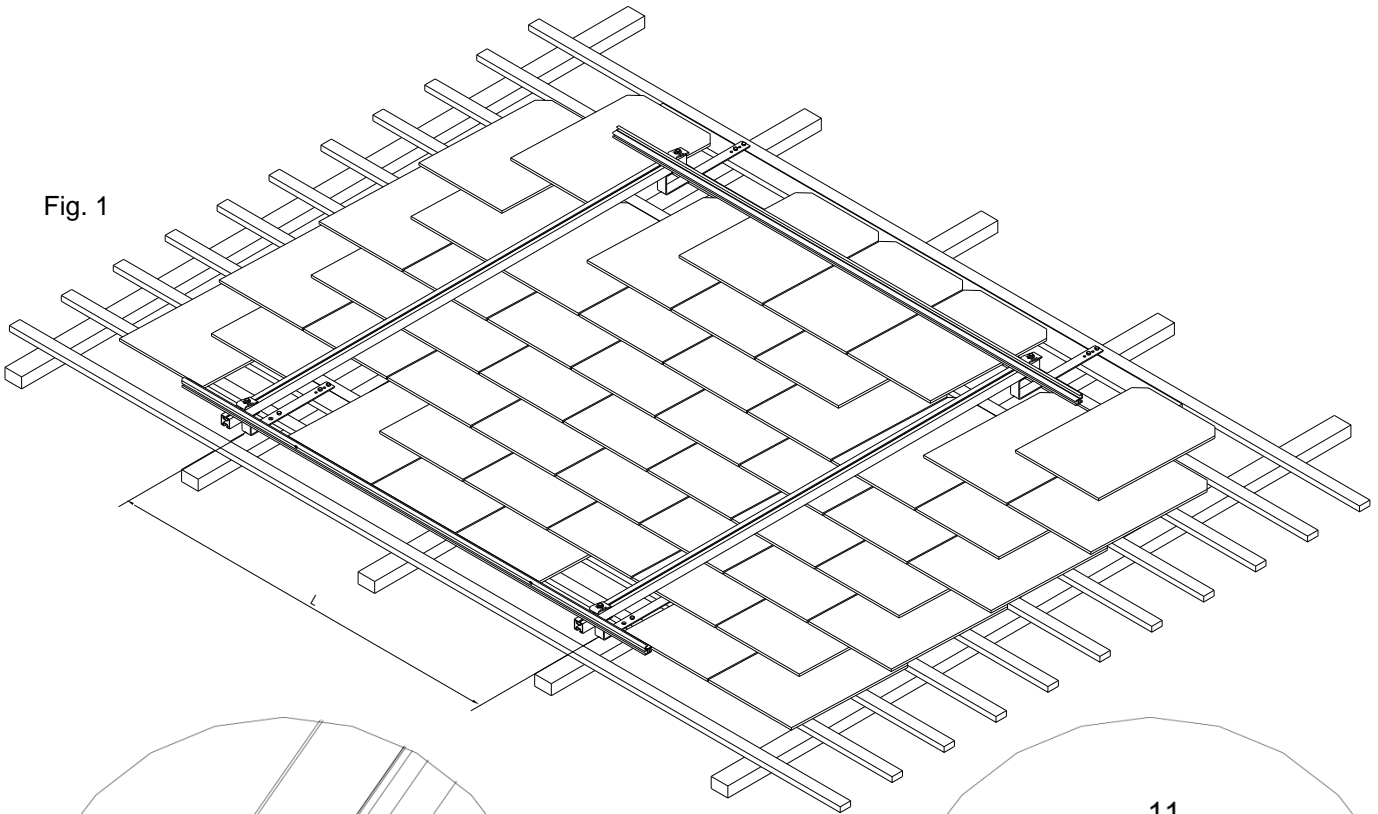


Fig. 2

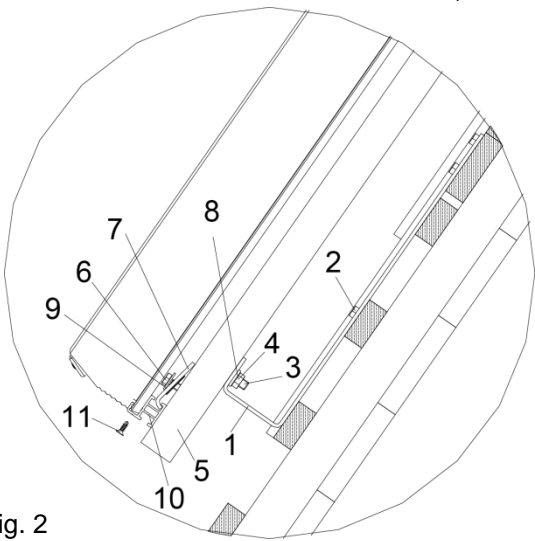
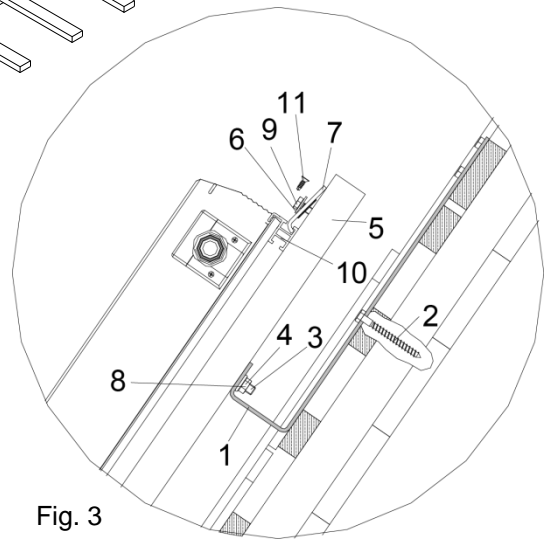


Fig. 3



Item	ANR	Designation	Attachment rows *)		
			2	3	
1	03986	Roof hook, Slated 40 x 406 x 4 mm	4	6	
2	29300	Plate head wooden screw clamp TG 8.0 x 100 mm	12	18	
3	29113	Carriage bolt M8 x 20 DIN 603 VG A2	4	6	
4	29272	Hex-nut SS M8 DIN 985 A2	4	6	
5	1000280004	Mounting rail 35 x 35 mm	2	3	
6	1000192047	Locking nut M8_V2A	4	6	
7	03948	Mounting clamp	4	6	
8	29219	washer 8,4 mm DIN 9021 – A2	4	6	
9	29113	Carriage bolt M8 x 20 DIN 603 VG A2	4	6	
			Number of collectors		
Required accessories:			1	2	3
10	091..	support profile	2	2	2
11	29528	Drill screw 4.8 x 16 mm	2	4	6
12	09717	Connecting piece	2	2	2

*) one attachment row is made up of 2 roof bows



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- Determine the placement of the collectors on the roof. For each roof hook (1) remove some shingles found right on the rafters. Be sure to fix the upper hooks (1) at least two tile rows under the roof ridge!

Amount of Attachments:										
Number of collectors vertical, Type 23 and 26	1	2	3	4	5	6	7	8	9	10
Attachment rows	2	3	4	5	7	8	9	11	12	14
L (mm)	750	750	877	940	815	860	894	828	855	811
Number of collectors horizontal, Type 23	1	2	3	4	5	6	7	8	9	10
Attachment rows	2	5	8	10	13	16	18	21	24	26
L (mm)	1400	890	817	876	837	813	845	826	812	834
WARNING!										
The tables above are guidelines. The number of attachment rows actually required depends on the local static requirements and must be set up depending on the usage scenario with the valid standards and rules. In particular, comply with EN1991-1, DIN1055 and ÖNORM M7778.										

- Fix all the roof hooks (1) according to the table above (distance L). If necessary use additional roof battens to balance out the height of the existing roof battens (Fig. 4).

It is recommended to use sheet metal tiles in the roof hook area to avoid risk of breakage.

- The mounting rail (5) is fastened to the roof hooks (1) with carriage bolts M8 (3) and Hex-nuts M8 (4), as well as the washer (8), by inserting into the lower groove of the rail and screwing the hook (1) to the slot (Figures 2, 3 and 5).

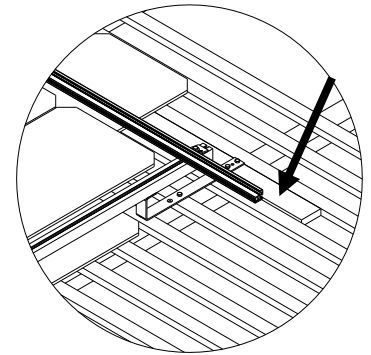


Fig. 4

- Fix the support profile at the bottom (10, required accessory) with the mounting clamps (7), the locking nut (6) and the carriage bolts M8 (9) on the mounting rail (see Fig. 2). Make sure that the rail is aligned as straight as possible and the lower distance is approx. 15 mm.

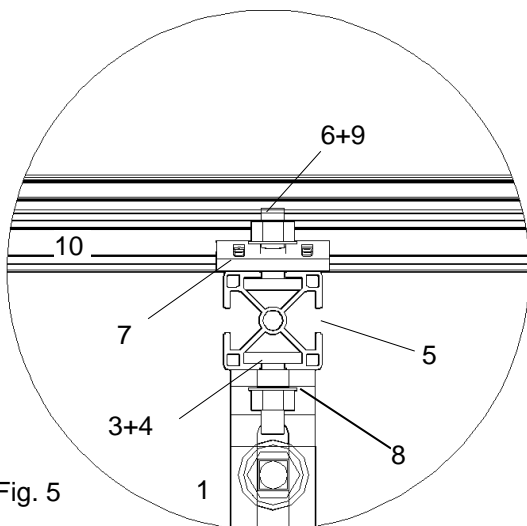


Fig. 5



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- Place the collectors on the bottom support profile (10). Push the top support profile into the nut provided on the collector (Fig. 1).
The hydraulic connection between the collectors is made using a screw connector. Tighten first with 2 fork spanners to get the right distance between the collectors.

WARNING! Before screwing the connectors, grease the threads and sealing surface (e.g. with silicone milk). When screwing the collectors, be sure to use counter-support in order to prevent mechanical damage to the absorber!!!

- Now fix the upper profile (10) with the mounting clamps (7), the locking nut (6) and the carriage bolts M8 (9) on the mounting rail (see Fig. 3).
- Ensure that all clamps (7) and screws (3, 9) are firmly in place.
- If more than one support profile (10) has to be connected together a connecting piece (12) is inserted into the corresponding profile guide (Fig. 6).
- Secure that each collector is fastened with drill screws (11) on the bottom and top via the provided drillings in the support profile (Fig. 7).

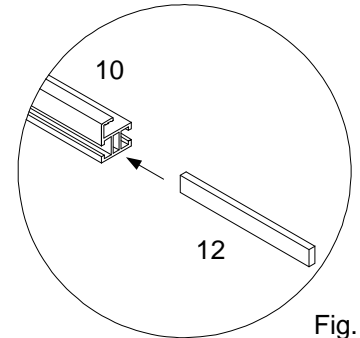


Fig. 6

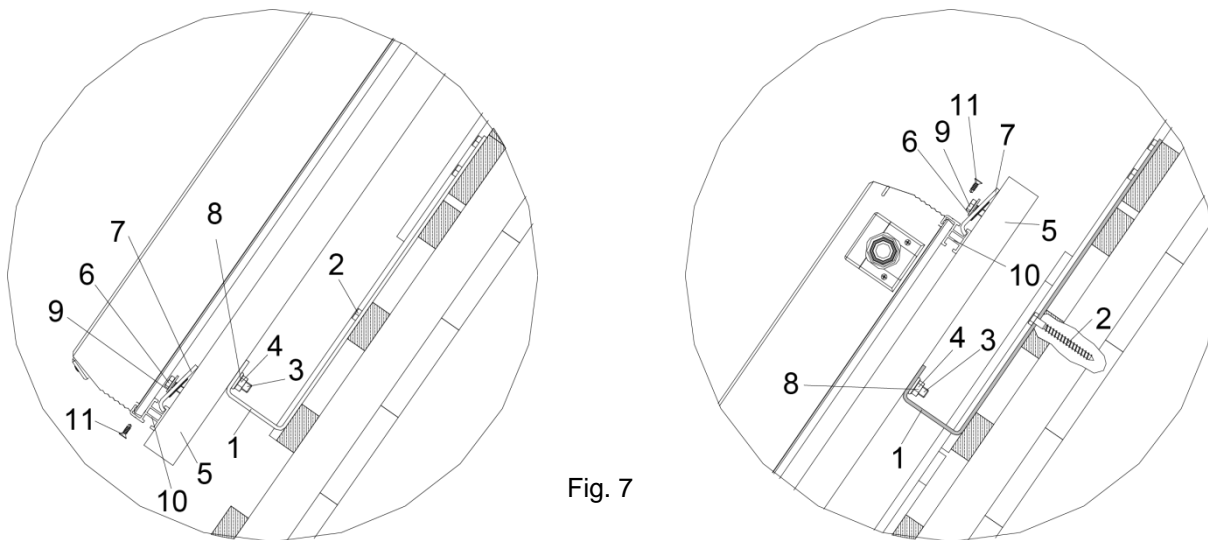


Fig. 7

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“.