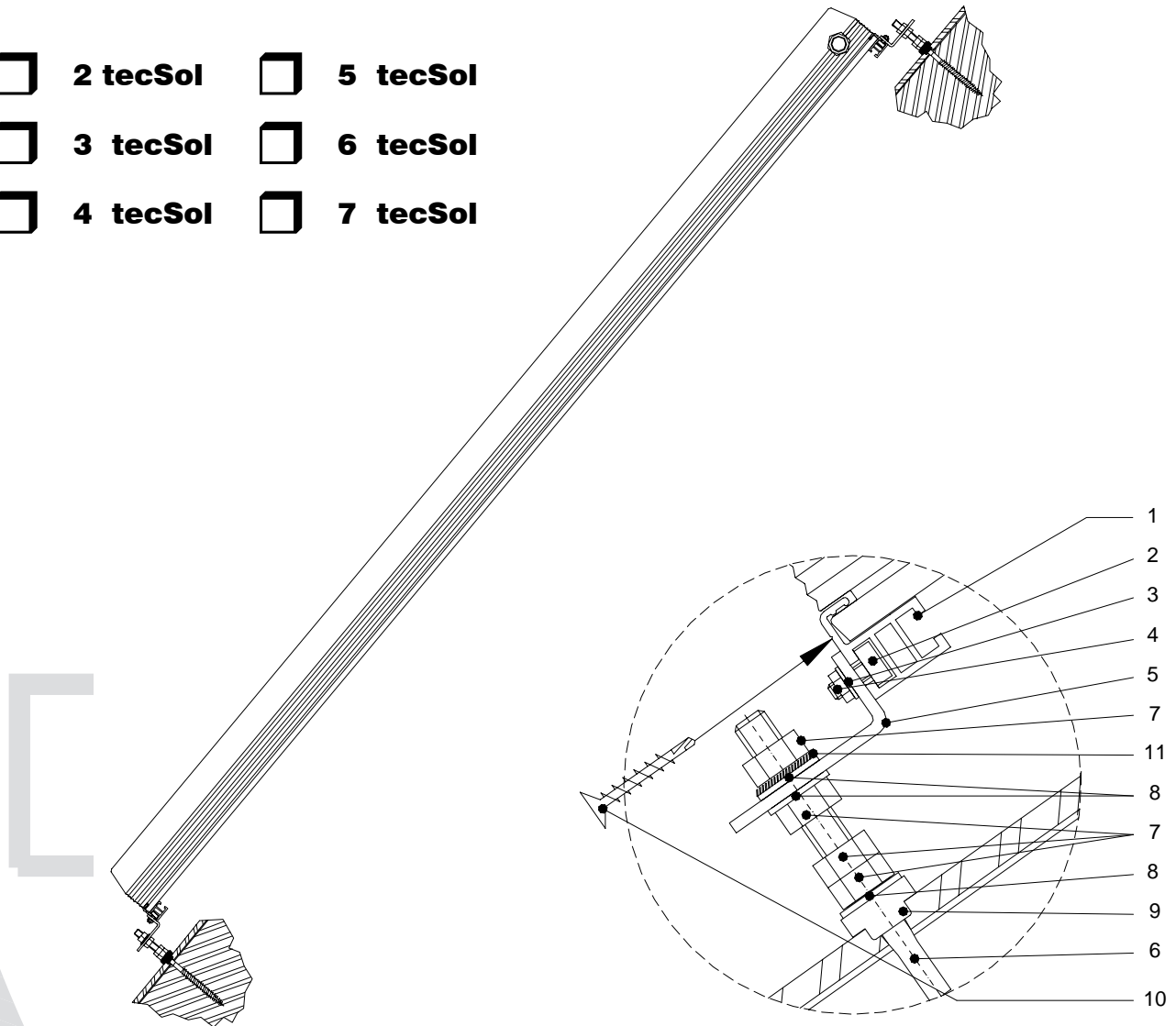


Mounting set with special screws for tecSol

- | | | | |
|--------------------------|-----------------|--------------------------|-----------------|
| <input type="checkbox"/> | 2 tecSol | <input type="checkbox"/> | 5 tecSol |
| <input type="checkbox"/> | 3 tecSol | <input type="checkbox"/> | 6 tecSol |
| <input type="checkbox"/> | 4 tecSol | <input type="checkbox"/> | 7 tecSol |



Pos	Code	Designation	Number of panels						
			2 panels	3 panels	4 panels	5 panels	6 panels	7 panels	
			03262	03263	03264	03265	03266	03267	
1	09150	Support profile	2	2	2	2	2	2	
-	09717	Alu connecting piece	2	2	2	2	2	4	
2	29510	T-headed bolt M8x20	6	8	10	14	16	18	
3	29206	Disk for M 8 - 8.4mm DIN 125 A2	6	8	10	14	16	18	
4	29272	Nyloc nut M8	6	8	10	14	16	18	
5	03908	Mounting angle for special screws	6	8	10	14	16	18	
6	29042	Special screw M12x350mm	6	8	10	14	16	18	
7	29237	Nyloc nut M12 DIN 934 A2	24	32	40	56	64	72	
8	29211	Disk for M12 - 13.0mm DIN 125 A2	18	24	30	42	48	54	
9	08929	Sealing	6	8	10	14	16	18	
10	29526	Self-tapping screw 5,5x32mm	4	6	8	10	12	14	
11	29175	Fan disk M12 - 13.0mm DIN 6798 I A2	6	8	10	14	16	18	

Assembly instruction for special srew-on-roof fastening set

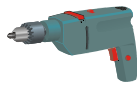
Tools required:



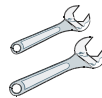
tape measure



hammer



powerdrill with
screwdriver bit



19mm spanner, 27mm
spanner, 38mm spanner

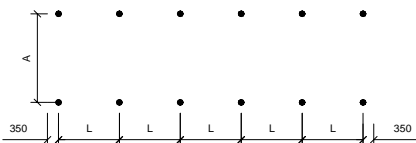


Drive ratchet with
19mm and 13mm
socket



13mm ring
spanner

Table: positioning of the screws



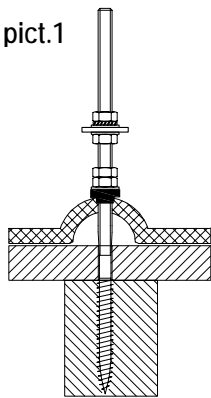
Standard format:

number of panels	2	3	4	5	6
A mm	2180				
L mm	750	877	940	815	860

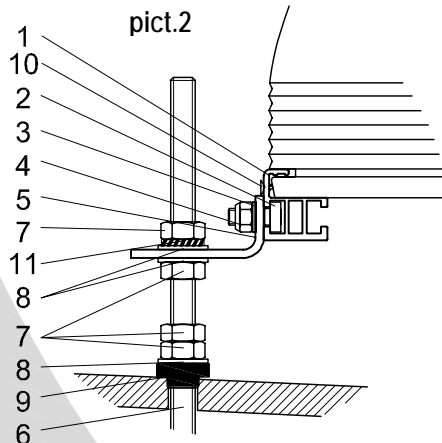
Horizontal format:

number of panels	2	3	4	5	6
A mm	1153				
L mm	1187	1144	1126	1116	1109

pict.1



- For finding the optimal position of the collectors, you have to measure the distance between the highest and the lowest special screw (tecSol = 2180 mm; tecSol-Q = 1153 mm) on the roof. The holes should be settled in the middle of the tiles, so that only one tile has to be drilled.
- Mark the lowest row with impact cord and a spirit level and determine so the right positions of the lowest screws. The distance between the screws depends on the rafter distance of the roof. Please note, to fix the special screws on the wave mountain on a firm underground (rafter) **pict.1**.
- Drill a hole with $\varnothing 14$ mm for the special screw and sealing into the tile (do always drill in the wave mountain **pict.1**), then drill a hole of $\varnothing 7$ mm (at firm undergrounds like f.e. concrete, drills and pegs with $\varnothing 14$ mm are needed). To achieve the necessary firmness, the hole should have at least 120 mm, that the screw can be screwed in with the whole shank (min 110 mm).
- Screw the special screws into the hole by screwing a nut against the special screw. Use this nut as flat. Subsequently take apart the nuts. Pull the seal (9) and the disk (8) into hole with $\varnothing 14$ mm and fix it with a nut (**But do not tighten it too much, otherwise the tile could break**) and place a second nut against. Then install the next nut and disk (7,8), that serve as surface for the assembly angle. The distance between the two nuts depends on the type of tile (recommondation about 30 mm) **pict.2**.



- Place the assembly angle (5) at the special screws on the backside of the collector and bolt it with the nut, the disk and the fan disk (7,11,8) on. With the slotted hole eventual disalignments of the screws can be adjusted.
- Install the support profile (1) with the „T“ headed bolt (2) and selffixing nut (3 and 4) on the assembly angle **pict.2**.
- Practise the items 5 and 6 for the upper profile, but don't screw the nut (7) too firm.
- Installation of the collectors:**
Put the collectors on the lowest support profile. Pull the upper support profile into the planned nut on the collector.
- The hydraulic connection between the collectors happens through the union fittings. First of all tighten the union fittings (with spanners) at the collectors for achieving the correct distance between the collectors.
ATTENTION! It's necessary to pull against while screwing

otherwise the collecting pipe could be rotated!

- After this, fix every collector by using a self-tapping screw (10) (also look at page nr. 1) on the support profile (the holes have already been drilled).
- Now screw the upper nuts (7) with the upper support profiles.