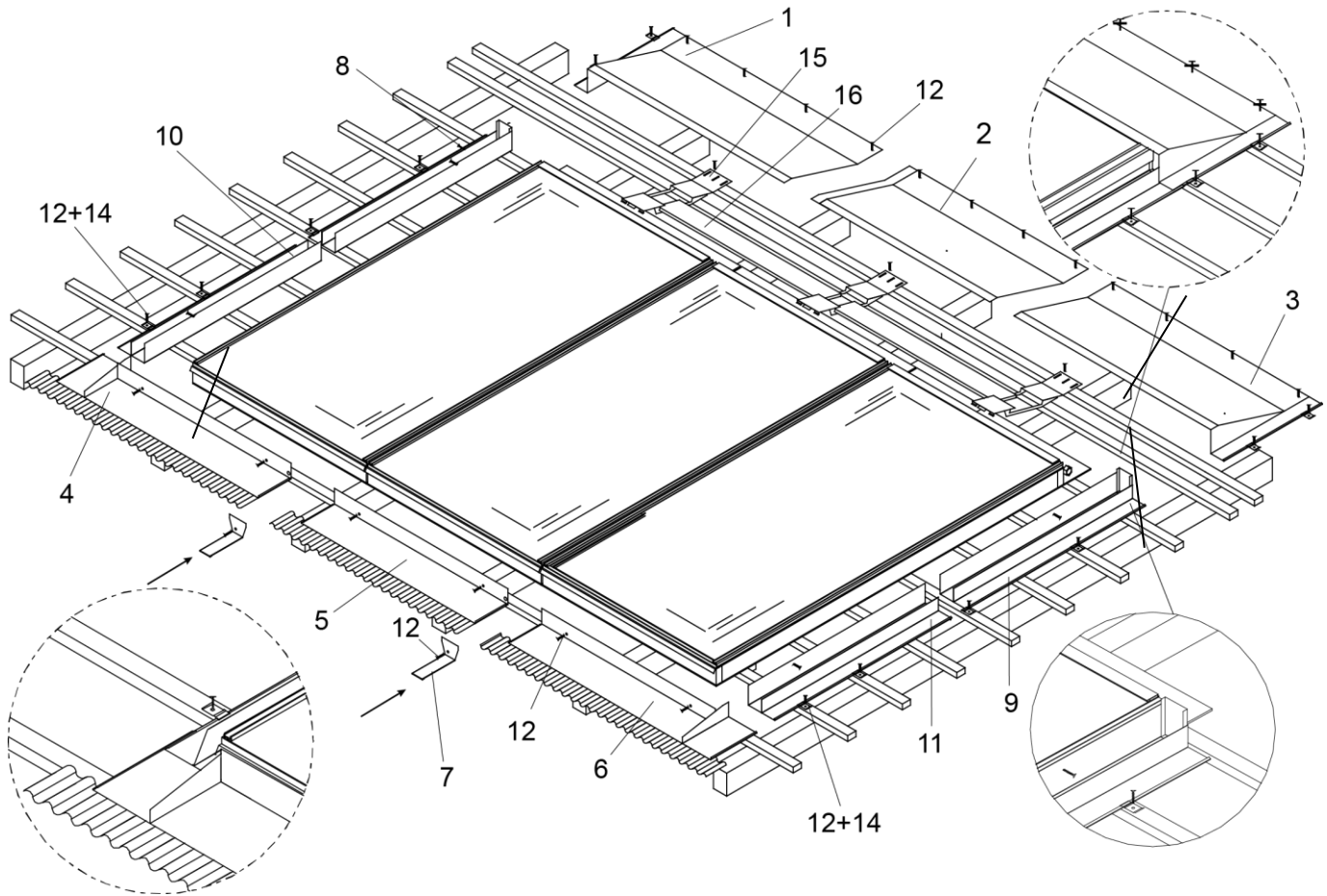




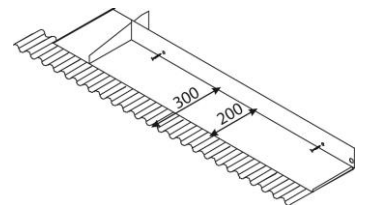
***Installation-instruction for flashing
for in-roof collectors topSol 22 / topSol 22M***



Installation-instruction for flashing for in-roof collectors topSol 22 / topSol 22M



The flashing is a weatherproof connection between the roof tiles and the solar collectors. It is made of powder coated aluminium sheet (RAL 7016). The flashing is easy to mount with the pre-formed parts and allows, using extension flashings, the installation of several solar collectors serially. This flashing is suitable for tiled or sheeted roofs with an inclination of more than 23°.



Installation – step by step:

1. The given distances between the roof batten and the collector have to be considered. The lower left part of the flashing has to adjoin the outer edge of the collector completely and is fixed with two sealing screws to the wooden frame of the collector. The installation height depends on the used roof material. Don't cut the tiles at the bottom edge of the collectors! If necessary, slope the tiles edges. The apron is adjusted to the shape of the tiles ensuring the water can slide easily.

Maximal distance between the roof battens: 350 mm

In case the distances are too high additional roof battens have to be installed.

Pos.	Code	Designation	Pos.	Code	Designation
1	04940	Top left sheet	9	04944	Right hand gutter upper section
2	04941	Top middle sheet	10	04949	Left hand gutter lower section
3	04942	Top right sheet	11	04950	Right hand gutter lower section
4	04945	Lower left sheet	12	29543	screw 4,5x25mm A2 16mm
5	04946	Lower middle sheet	13	08924	Wedge shaped foam
6	04947	Lower right sheet	14	40032	Bracket
8	04943	Left hand gutter upper section	15		Support plate
			16		Wooden support-board



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- (valid for more than 2 collectors) Fit the lower middle sheet directly to the collector with 2 screws. **ATTENTION! The lower middle sheet has the same width as the collector.**

ATTENTION! The lower sheets must fit horizontally linearly to the collector! Between the lower sheets there must be a gap of about 8 mm. This gap is necessary for compensating the expansion of the aluminium.

- Install all lower middle sheets in this manner.
- The lower right sheet (4) has to adjoin the outer edge of the collector and is fixed with 2 screws directly at the collector.
- Each side gutter comprises 2 sections, upper and lower. Slide the lower section into the folded edge of the lower sheets. It may be necessary to bend up the lip and bend it down after joining. Slide the upper section of the gutter into the lower section - ensuring that it is on top and to the marker sticker. The closed end of the gutter will be flush with the top of the panel frame. Screw the gutters directly to the timber side of the panel (measure up approximately 70 cm) from the lath, this will maintain the water proof seal and ensure the screw heads are covered by the clip on side profile. Fix the brackets to the laths as shown.
- The supporting (15+16) has to be hooked in at the upper collector profile and fixed on the rafter behind using the screws. The supporting is always installed at the center of the collector. You need one supporting for each collector. If necessary an additional rafter must be installed. The wooden support-board is hooked in the support plate (Pos. 16). The board serves as base for the top sheets of the flashing.
- Slide the left top sheet over the left gutter. It may be necessary to bend up the lip a little and bend it down after joining. Slide the left hand top sheet up to engage the lip on the aluminium profile with the lip on the panel. The left and right top sheets are fixed to the laths by 2 brackets, 2-3 cm from their edges.

ATTENTION! DO NOT deform the aluminium flashing as this may allow water to penetrate!

- Slide the top middle sheet into the groove on the top left sheet. Ensure that the top flashing is aligned horizontally.
- Install all the remaining top sheets in a similar fashion.
- Stick on the wedge shaped foam parts to the sides and top around the panels. Clean the aluminium sheet if it is dusty.
- Replace the roof tiles allowing about 1 cm clearance from the gutter.

