

# INSTALLATION GUIDE

**CREATON solar support set, mounted on a board**



## CONTENTS OF THE PACKAGE



**Solar support**



**Ventilation tile** (matching with the tile model and its color)

## REQUIRED FOR THE INSTALLATION



Fixing screws  
6x40/24 A2 flat head screws

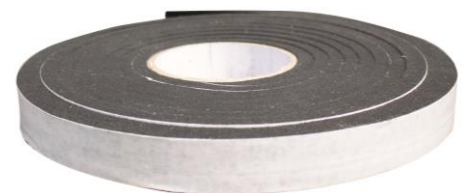


Screws for the board  
Min. 6 x 120 mm A2 flat head screws



Board, 30x120 mm  
At least S10/C24

## OPTIONAL ACCESSORIES



Self-expanding foam tape

## Solar support set, mounted on a board



1

Position the solar holder on the wooden board and maintain the distance from the upper edge of the tile/roof tile to the screw head (where the hook and base plate are fixed) with an air gap of approx. 5 mm (tiles will break if this is not observed). This results in a distance of cc. 3 cm from the upper edge of the brick/stone to the lower edge of the board.

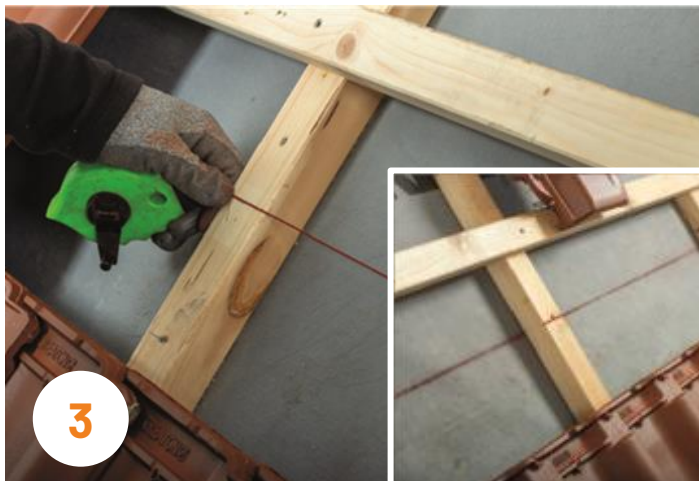


2

Mark the upper edge of the wooden board in the top of the counter battens.

**i** Note: A 30 x 120 mm wooden board of sorting class  $\geq$  S10 and strength class  $\geq$  C24 is used. Both a solid wooden board and a 3-layer wooden board can be used. It is possible to install wider wooden boards.

**i** Note: Thinner wooden boards than 30 mm may not be used due to the static load and the proven test values!.



3

Transfer the marked position of the wooden board to the roof using a chalk line tool.



4

Position the wooden board at the line lay and screw it to the rafter using the 6 x 120 mm flat head screws. The edge distances of min. 30 mm must be observed.

**i** Note: Screw the upper screw at a 60° angle and the lower screw of the wooden board attachment at a 90° angle to the roof pitch through the wooden board and into the rafter.

**i** Note: when using an above the rafter insulation a longer screws have to use!



The wooden board is set and prepared for attaching the solar holder. The overhang of the board to the counter batten should be approx. 10 cm.

**i** Note: In the case of a board joint, a second counter batten must be set in order to be able to maintain the edge distances of the screw connection..



Hold the solar holders against the wooden board and adjust the height according to the tile/roof tile model and the ventilation tile/solar tile. Check the position and interaction with the ventilation tile and adjust again if necessary.

**i** Note: The screw of the support can be tightened with a size 13 socket wrench with a 16 Nm torque.



Screw the solar holder four times to the corners of the base plate using the 6 x 40 mm flat head screws in stainless steel A2.

**i** Note: The solar supports should not be positioned more than 30 cm offset from the rafter due to the excessive deflection of the wooden board. Alternatively, there is the possibility of using a stronger wooden board and possibly notching it in the counter-batten.



The height of the support should be checked again, it is not supposed to make contact neither with the base tile below and the ventilation tile above.

It is recommended to use a self-expanding foam tape between the ventilation tile and the base tile to reduce the opening and minimize the ingress of rain.



9 Screwing of all solar holders specified in the plan on the positioned wooden board. The specified center distances must be taken into account.



10 In accordance with the solar panel system, the board of the next row of supports must be prepared in the same way as previously showed.

**i** Note: It is recommended to always work with a chalk line, as setting the wooden board lays the "foundation" for a straight positioning and alignment of the modules.



11 Screw the next wooden board and lay the tiles/roof tiles up to the lower edge of the wooden board..



12 Fasten the next row of solar supports in the same way as previously shown with 4-4 pcs of screws in the corners.



13

Covering the rest of the roof area.

**i** Note: Do not use the screwed solar holder as a climbing aid or footrest. This can result in bending of the hooks, loosening of the bolting or brick/concrete quarrying.

14



With different tile models, it is necessary to cut off and adjust the ribbing, which is necessary for production technology, with the angle grinder before covering.

**i** Tip: The interlocking must not be changed, as this will affect rain yield security.



15

With other models, only the support rib has to be removed using an angle grinder or, if necessary, a hammer to ensure the covering.

**i** A notice:

- The solar supports are not suitable for a building higher than 25 meter
- Every roof has project or location-related special features that must be taken into account and assessed by experts and knowledgeable people. The roof substructure must be statically tested and designed for the additional loads of a solar thermal/PV system.
- CREATON assumes no liability for damage caused by improper installation.

**The solar support set is not available for SIMPLA and for the plain and side interlocking plain tiles!**