

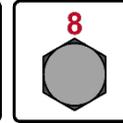
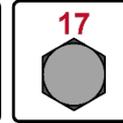


CWL SOLAR SYSTEM

M-388 2601 EN

FLAT ROOF SYSTEM

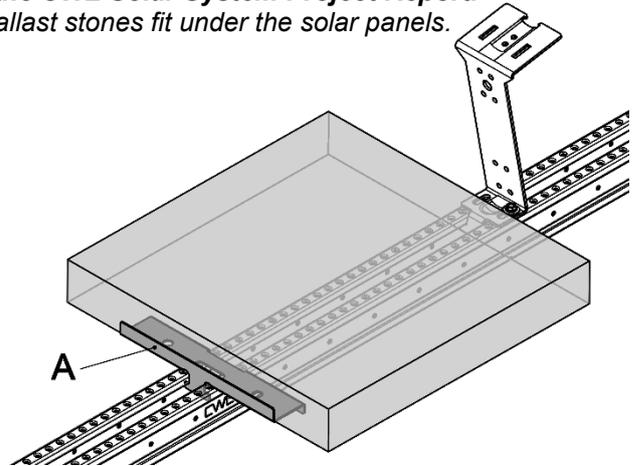
BALLAST



The weight and position of ballasts are specified in the CWL Solar System Project Report for the current installation. Ensure that the selected ballast stones fit under the solar panels.

Ballast support

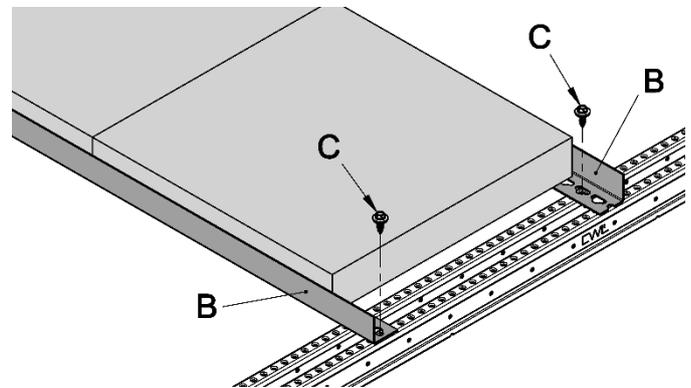
Install ballast supports (A) in all positions where the project report specifies a ballast weight on the solar panel rail. Turn in the ballast support tab in the solar panel bracket's groove and press the support firmly into position on the rail. Position ballast stones across the solar panel rail with support on one side of the ballast support. Ballast stones can be stacked vertically to reach the desired weight. The ballast support must be positioned on the side of the stone that slopes in the direction of the roof pitch.



Ballast rail

Install the ballast rail where the project report specifies the ballast weight between two solar panel rails.

Install 2 pcs ballast rails opposite each other so that the ballast stones can rest on the rails. Assemble with a little slack so that the stones fit tightly. Distribute the load evenly over the distance. Screw each ballast rail (B) to the solar panel rails using 1 pc construction screw (C) at each end. Cut off protrusions.

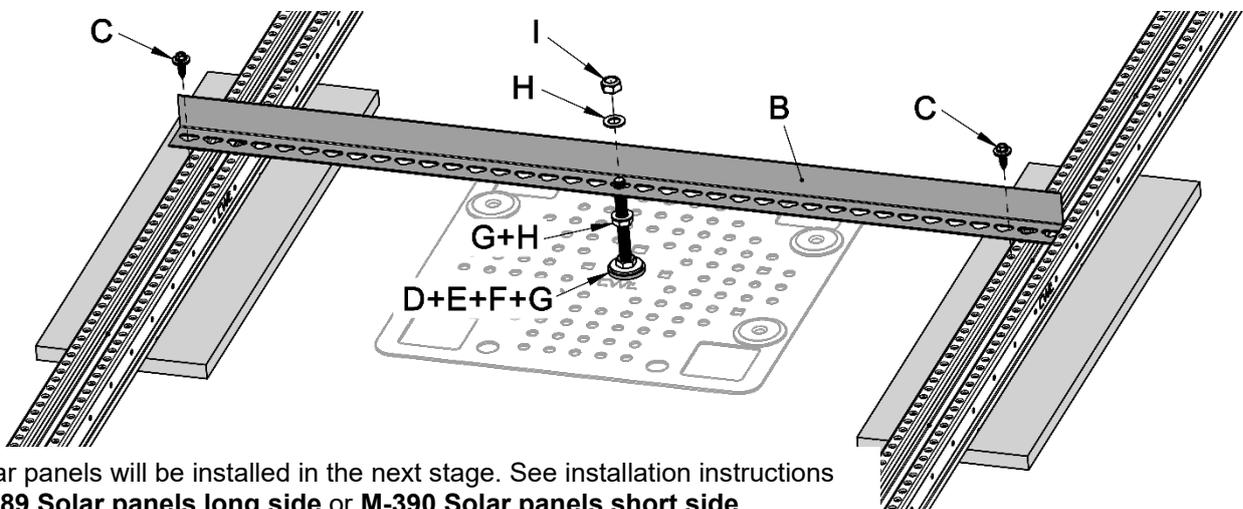


Hybrid installation

Install mounting plates with carriage bolts M10 x 100 mm (D), centred between the solar panel rails at the positions specified in the project report, according to the instructions for solar panel installation in installation instructions M-349 Felt Roof or M-350 Paper Roof.

Install the seal (E), large washer (F) and nut (G) with a tightening torque of 10 Nm.

Install the nut (G) and washer (H) just below the plane of the solar panel rails. Install the ballast rail (B) straight across the carriage bolt. Screw the ballast rail to the solar panel rails using 1 pc construction screw (C) at each end. Install the washer (H) and lock nut (I) so that the ballast rail bends downwards without buckling. Cut off protrusions.



Solar panels will be installed in the next stage. See installation instructions **M-389 Solar panels long side** or **M-390 Solar panels short side**.

A= Ballast support, B= Ballast rail, C Stainless steel construction screw with washer 6.3 x 19 mm, D= Carriage bolt M10 x 100 mm A2, E= Sealing washer Ø35, F= Washer 10.5 x 30 x 2.5 A2, G= Nut M10 A2, H= Washer 10.5 x 19.5 x 2 A2, I= Lock nut M10 A2

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