

HI-QuadCore 2.0 CT | HI-CT



Roof panel with high-performance insulation and hidden joint

General guidelines for installing HI-QuadCore 2.0 CT and HI-CT roof panels

Product safety

It is necessary to consider the information given on the Product Safety Sheet.

Precautions

In order to prevent scratches, dents and deformation during installation, rubber footwear must be worn, burrs must be eliminated after cutting and any concentrated loads on the panels should be avoided.

Fastenings

The fastening screws must be selected in accordance with the support material and the strength and durability requirements. The tightening torque for the screwdriver machine must be that necessary to guarantee correct fastening, avoiding excessive torque, which could cause surface deformation on the exterior panel sheet.

Protection film

Check that the protection film (if applicable) was com-



pletely removed while the panels were being secured to the support structure.

Earthing

It is recommended that the panels be earthed as well as the roof-support structure to avoid the accumulation of static electricity.

Installation without overlap

Minimum roof slope

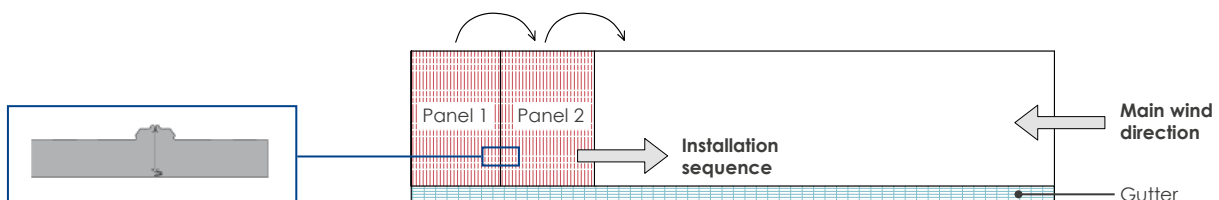
4% (A minimum 5% roof slope is recommended)

Installation direction

The HI-QuadCore 2.0 CT and HI-CT roof panels does not require a specific direction for the installation without overlap. It is only necessary to respect the tongue and groove anchoring.

Installation sequence

1. Remove the temporary protection film as the panels are installed (if applicable).
2. Install on the structure all the corresponding installation accessories under the panel, in other words, those in contact with the roof support structure. The use of sealing tape is recommended over the ridge purlin before installing the roof panel.



HI-QuadCore 2.0 CT | HI-CT

Sandwich panel for roofs



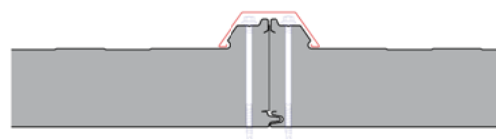
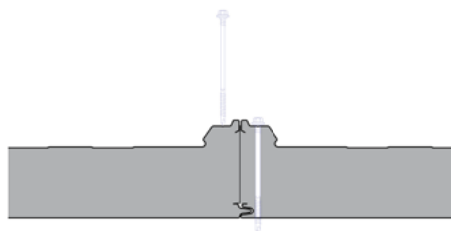
- Secure the first panel to the frame, starting with the rib adjacent to the side of the roof. The panel must sit perfectly on the support. The screw must be driven in perpendicular to the surface of the panel and centred on the ridge.



- Fit the second panel, ensuring the tongue-and-groove joints line up correctly. To make fitting easier, the panel should be inserted at a slight angle.



- Screw both panels to the frame, along the ridges adjacent to the tongue-and-groove joint, and fit the flashing.



- Proceed in the same way with the rest of the roof, ensuring at all times that the panels are aligned with one another and with the structure.
- Once the roof is complete, cut off the excess side of the last panel using a jigsaw or cold-cut disc, and remove any shavings that may remain on the surface after cutting.
- Fit the remaining roof components (trims, finishes, etc.).

Installing HI-CT roof panels with overlap

Minimum roof slope

7% (A minimum 10% roof slope is recommended)

Panel overlap

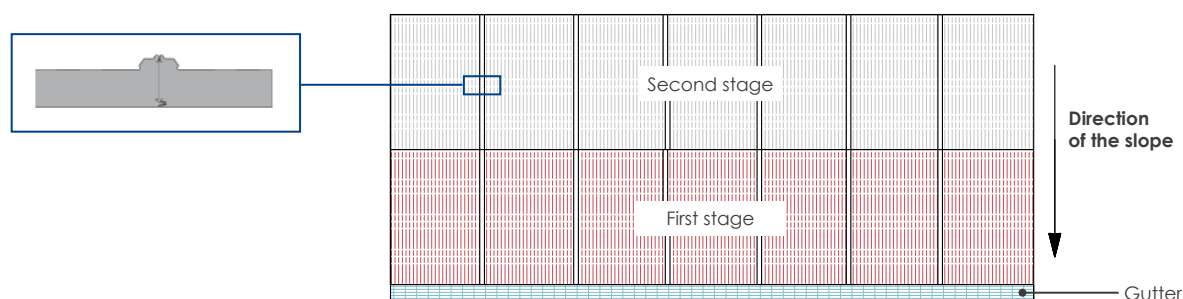
The connection between two overlapping panels must always be made over a purlin. The width of said purlin must be at least 80 mm.

The recommended minimum overlap length is 200 mm.

The panel overlap and that of the flashing must not coincide and should be spaced apart by at least 50 cm.

Installation sequence

- Remove the temporary protection film as the panels are installed (if applicable).
- First install the panels on the lower part of the slope just as described for the installation without overlap, but without screwing the panel to the upper purlin where the overlap will be formed. Viewing the panel from the lower part of the slope, the panel tongue must be to the left and the groove to the right.

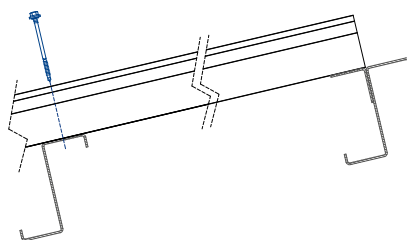


HI-QuadCore 2.0 CT | HI-CT

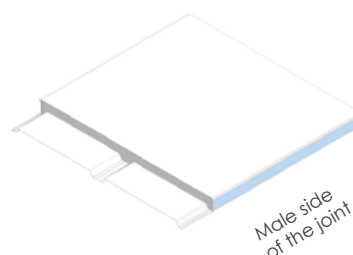
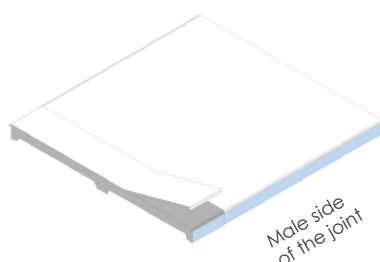
Sandwich panel for roofs



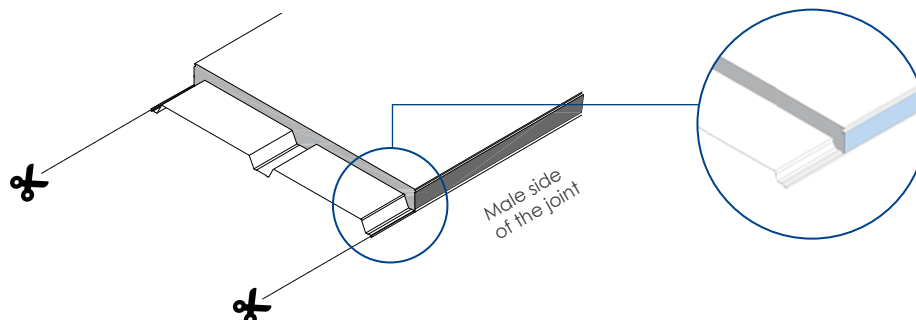
Installation sequence



3. Remove the inner sheet (precut) and the foam from the panel with the overlap cut (upper panel).

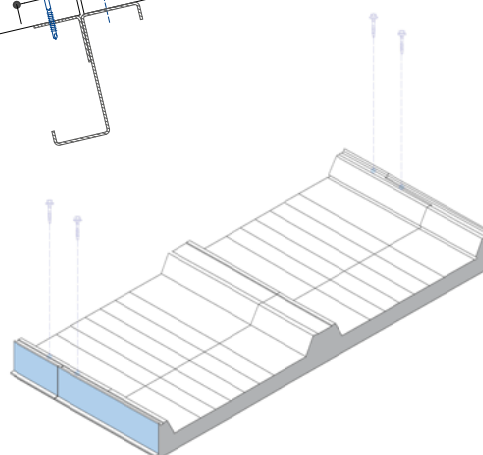
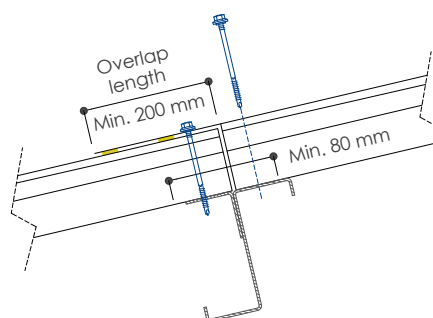
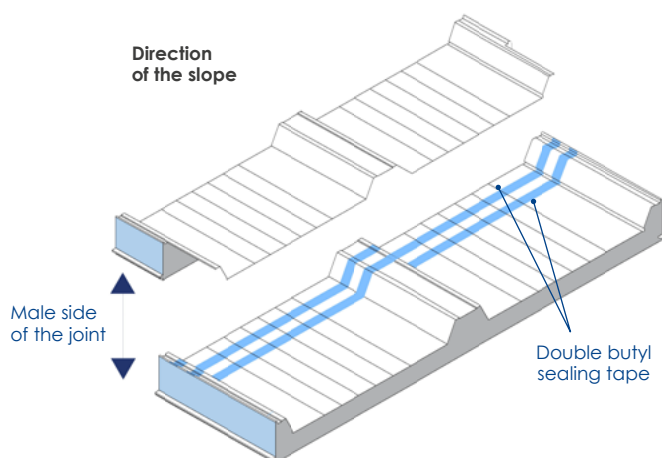


4. Cut the side edges of the overlap and remove the excess sheet.



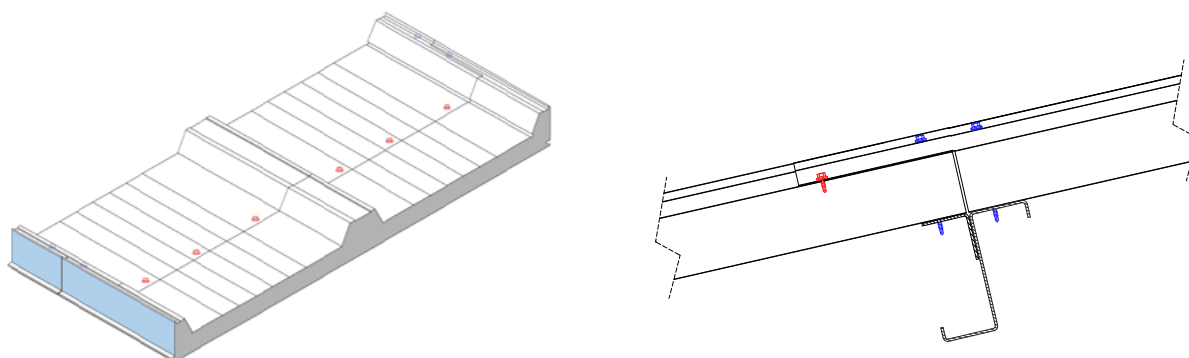
5. Apply the double butyl sealing tape to the overlap area on the lower panel, after prior cleaning and drying of the surface.

6. Install the panel for the upper part of the overlap. Fasten the panel of the lower part of the overlap to the purlin, followed by the upper part.





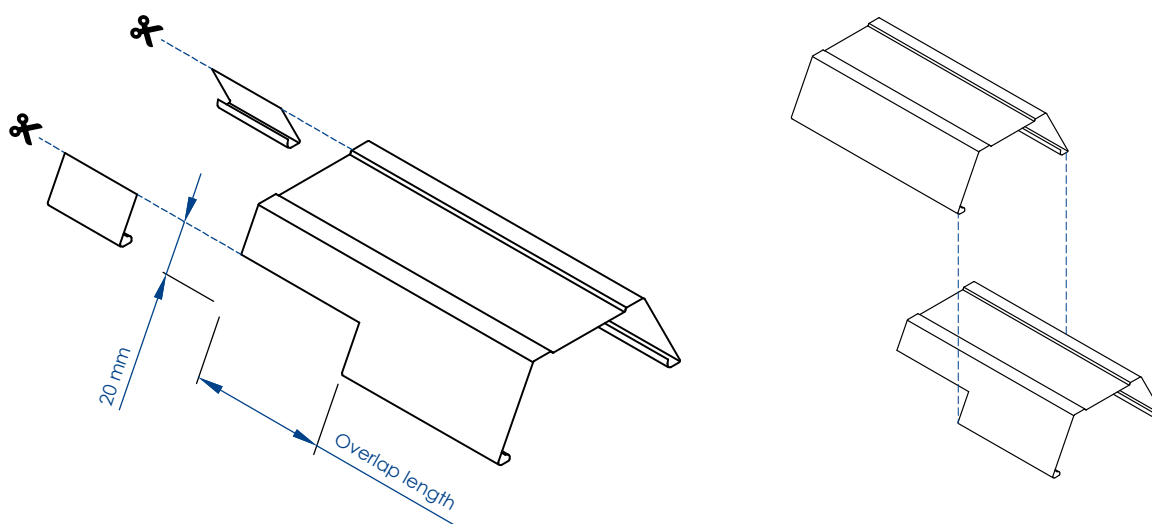
7. Screw the overlap sheet using two or three screws in each valley (shown in red on the drawing) to the lower panel.



8. Continue this process in a similar way for the adjacent panels.

9. **Flashing overlap:** In order to prevent water filtration, the flashing must be overlapped just as described below:

- 9.1. Apply sealing to the upper part of the longitudinal joint between panels over a length of one metre above and below the overlap line.
- 9.2. It is recommended that the flashing be installed so that there is a minimum shift of 50 cm between the panel and flashing overlaps. This shift may be obtained simply by interchanging the flashings on the upper and lower panels.
- 9.3. Cut some 20 mm from the sides of the flashing to be fitted to the lower part with the length of the panel overlap and install it. Then install the upper flashing.





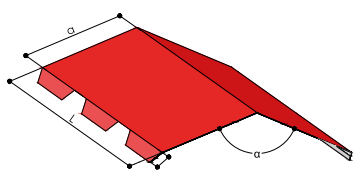
Complements and flashings

HUURRE has a wide range of finishes and complements available, which are ideal for simple comprehensive roof execution and obtaining optimum finishes.

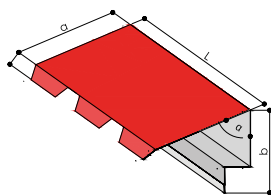
Flashings

These are made to measure with 0.6 mm thick steel sheet, according to the requirements of each specific client and project.

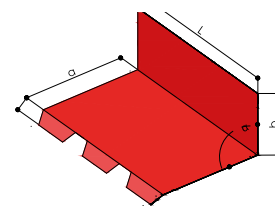
Length of the die-stamped finishes: Width of three panels + 200 mm overlap.



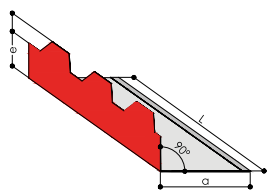
CT die-stamped ridge



CT slope apex crest

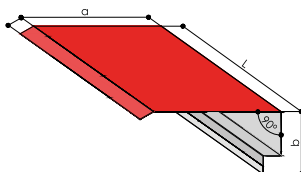


CT façade joint to slope apex

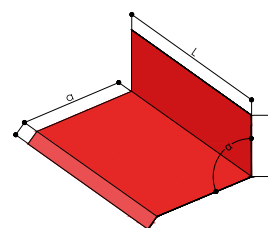


CT lower die-stamped slope finish

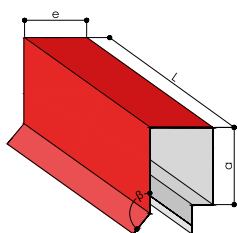
(Width: 1 panel)



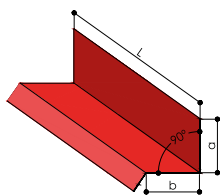
CT crest on lateral slope



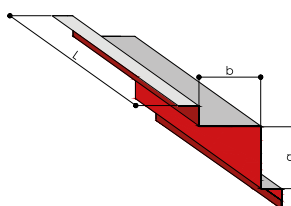
CT crest on façade to side



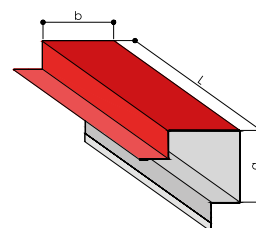
CT crest on coping



CT gutter



CT interior angle



CT exterior angle

Ridge joint

Depending on the roof slope, the system water-tightness is completed with a closed-cell polyethylene foam profile that has panel rib geometry and adhesive to make installation easier. Length: 1.15 m.





Constructive details

System installations that have visible fastenings require the use of electric screwdrivers fitted with depth limiters to prevent the screws from sinking into external surfaces of the elements being fastened.

Double-slope ridge

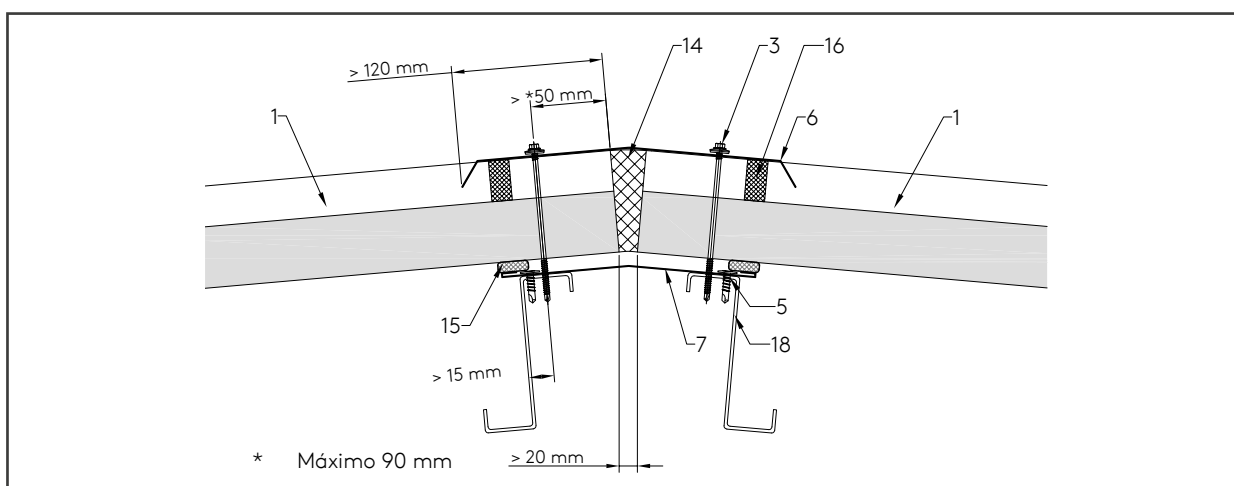
The roof ridge is finished with a die-stamped finish that is adapted to the ribbed panel profile.

The joint between the panels is filled with an insulating complement to provide insulation continuity.

It is recommended that sealing tape be employed be-

tween the panel and the first purlin to form a vapour barrier.

If the roof ridge is not die-stamped, a polyethylene profile will have to be installed under the ridge that adapts to the panel ribbing.

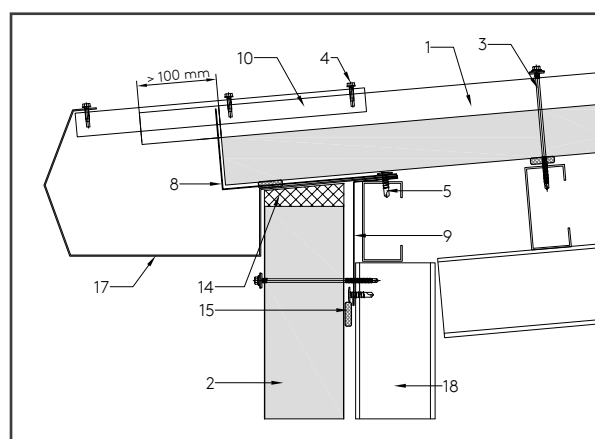


Joint between the roof, the façade and drainpipe

The drainpipe and guttering are supported on the last roof purlin or supporting structure element. A gutter profile leads to the drainpipe. A self-tapping screw will simultaneously fasten the panel, gutter and drainpipe.

It is recommended that water-tightness tape be employed between the panel and the gutter to form a vapour barrier.

Optionally, the isolating core of the roof panel will be covered by a die-stamped steel finish that adapts to the panel ribbing.

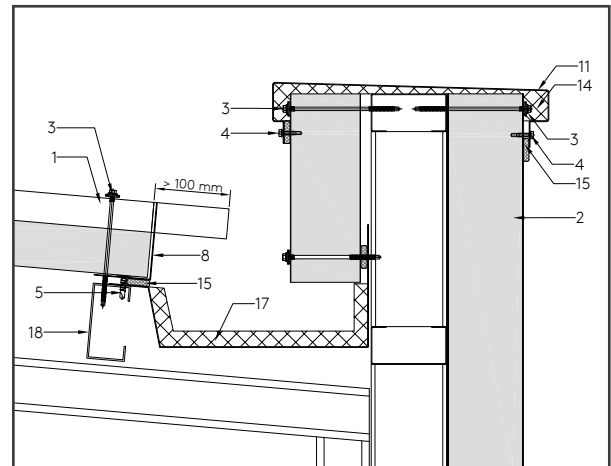
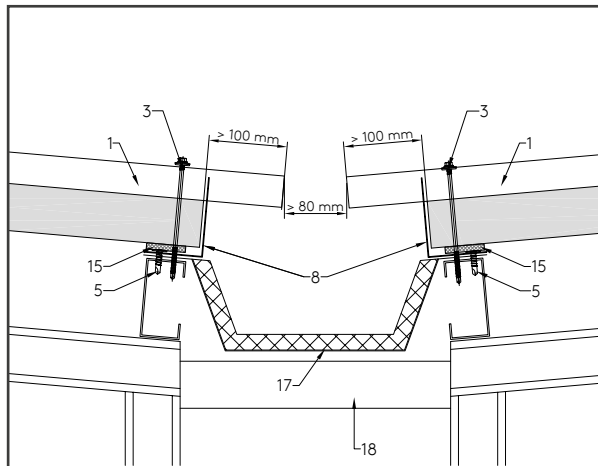




Joint between roof and interior drainpipe

If the drainpipe is interior, it must be insulated to ensure the continuity of the thermal insulation. The drainpipe will be supported on the roof purlins or on the last roof purlin and one on the façade.

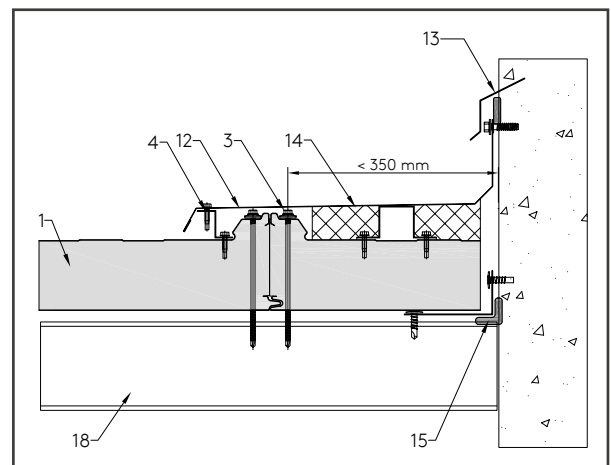
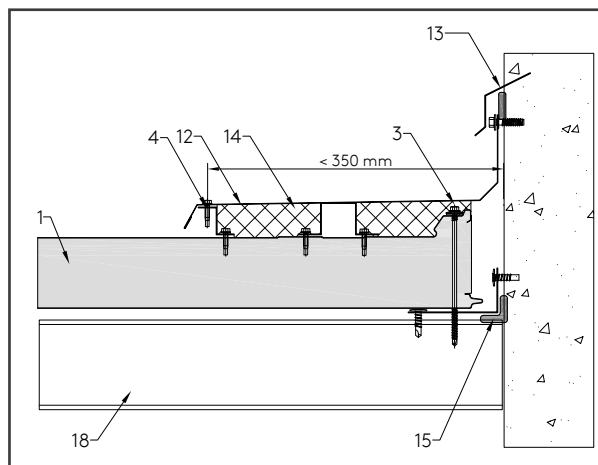
It is recommended that sealing tape be employed between the panel and the drainpipe to form a vapour barrier.



Inner-wall side joint

An interior angle, supported on the purlin, forms a guide for positioning the panel. It is recommended that sealing tape be employed between the panel and the angle as a vapour barrier.

The pre-lacquered steel profile of the gutter will be embedded in the wall and must be extended to the nearest ribbing on the panel. If necessary, an omega support profile will be fastened to the panel to support the gutter.





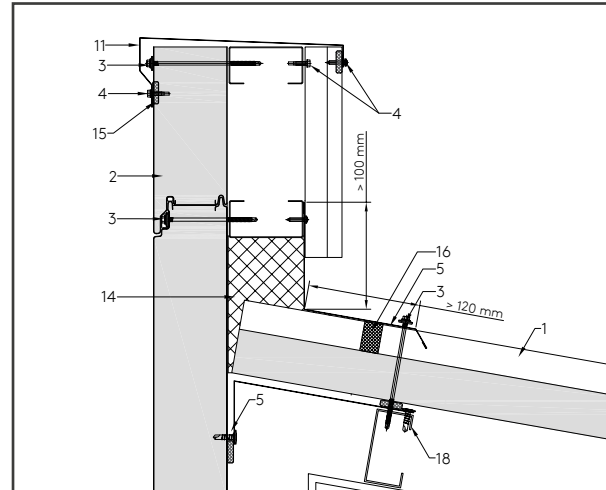
Joint between roof and façade

An insulating complement will be fitted to the joint between the roof panel and the façade to provide insulation continuity.

The ribbing interior will be ended with an angle in the pre-lacquered sheet and insulating tape will be applied to form a vapour barrier.

The exterior will be fitted with a die-stamped finish at the slope apex, which will be fastened to the façade purlin prior to installing the façade panel.

If the finish is not die-stamped, a polyethylene membrane profile will be installed that adapts to the panel ribbing.

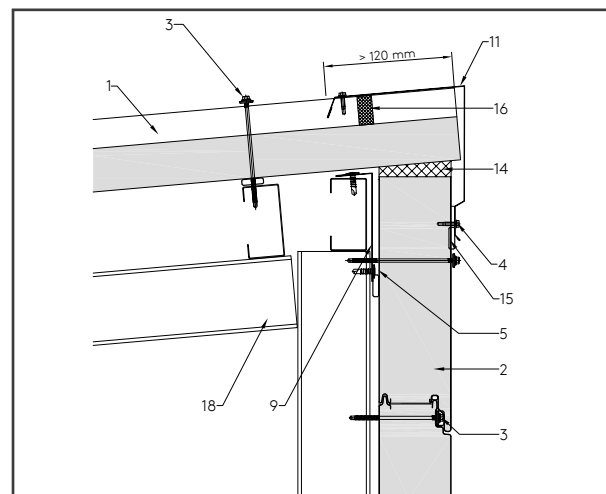


Roof joint with the façade in high slope position

The crest at the roof slope apex with the façade is finished using a die-stamped finish.

If the finish is not die-stamped, a polyethylene profile will be installed as a water-tightness complement.

The joint between the panels is filled with an insulating complement to provide insulation continuity. The finish profile will be riveted to the panels.



HI-QuadCore 2.0 CT | HI-CT

Sandwich panel for roofs



List of materials

Número	Material
1	HI-QuadCore 2.0 CT or HI-CT panel
2	HI-QuadCore 2.0 AWP or HI-ST panel
3	Screw fixing
4	Self-drilling screw
5	Flat head screw
6	Ridge flashing (Th: 0.6 mm)
7	Under-ridge flashing (Th: 0.6 mm)
8	Perforated flashing (Th: 1 mm)
9	Internal flashing (Th: 0.6 mm)
10	Support flashing (Th: 1 mm)
11	Eaves / Barge flashing (Th: 0.6 mm)
12	Drip flashing (Th: 1 mm)
13	Drip flashing (concrete) (Th: 1 mm)
14	Insulating filler (In situ)
15	Sealing tape (In situ) - OPTIONAL
16	Under-ridge gasket
17	Gutter
18	Steel structure / Frame



Download the latest version by scanning the QR code or by clicking [here](#)

Huurre Ibérica S.A.U.

Carrer Serinyà 43
Polígon Industrial el Trust
E17244 Cassà de la Selva
Girona (Spain)

☎ (+34) 972 463 085

📠 (+34) 972 463 208

✉ huurre@huurreiberica.com



HUURRE IBÉRICA S.A.U. RESERVES THE RIGHT TO MODIFY THE CONTENTS OF THIS DOCUMENT WITHOUT ANY PRIOR WARNING. EVERY EFFORT HAS BEEN MADE TO ENSURE THAT THE CONTENT OF THIS PUBLICATION IS ACCURATE, BUT HUURRE IBÉRICA S.A.U. AND ITS AFFILIATED COMPANIES ARE NOT RESPONSIBLE FOR ERRORS OR INFORMATION THAT MAY BE MISLEADING. SUGGESTIONS REGARDING THE FINAL USE OR APPLICATION OF THE PRODUCTS OR WORK METHODS ARE MERELY INFORMATIVE AND HUURRE IBÉRICA S.A.U. AND ITS AFFILIATES DO NOT ACCEPT ANY RESPONSIBILITY IN THIS REGARD.