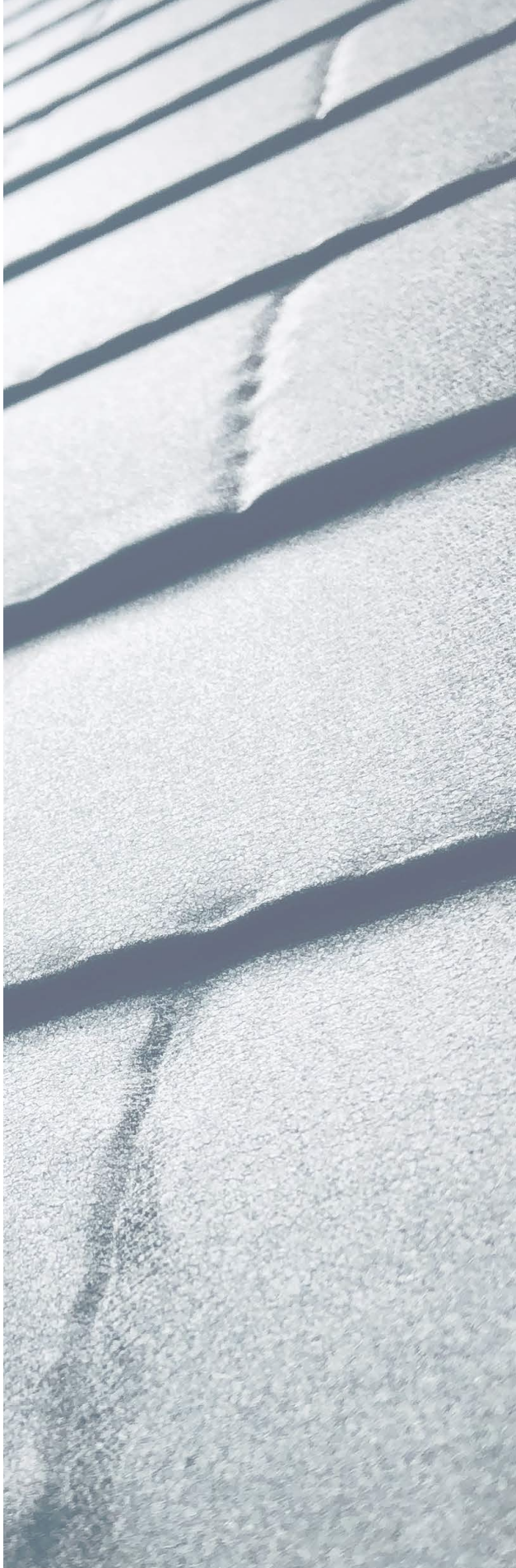




JI SLATE 1000SF PIR

Installation guide

MR078 / 1220



Index

Technical data sheet	2
JI Slate 1000SF PIR	2
JI Sidings 1000SF PIR	3
Wall application	4
Step 1	5
Step 2	5
Step 3	6
Step 4	6
Step 5	7
Step 6	7
Step 7	8
Step 8	9
Step 9	10
Roof application	12
Step 1	12
Step 2	12
Step 3	13
Step 4	13
Step 5	13
Step 6	14
Step 7	14
Legend	16
Accessories	17

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JI SLATE 1000SF PIR

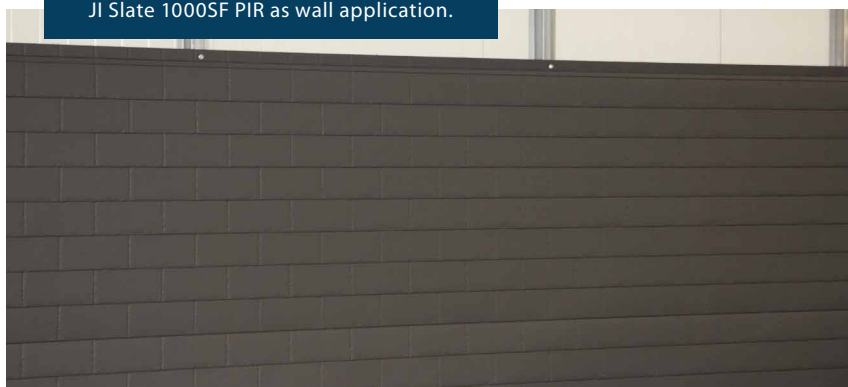
Installation guide

JI Slate 1000SF PIR offers a high-quality, ready-made solution for an insulated façade with slates. If you prefer a façade consisting of weatherboarding, our JI Sidings 1000SF PIR would be great for you.

The JI Slate 1000SF PIR and JI Sidings 1000SF PIR can be used as both roof and wall applications.

Joris Ide has over 30 years of experience and is a quality label within the construction sector. We provide your building with the best finish, with a wide range of accessories tailored to your project. Joris Ide, the ideal partner for all your projects.

JI Slate 1000SF PIR as wall application.



Overlap detail.



Detail JI Slate 1000SF PIR.



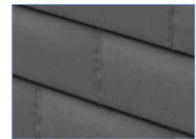
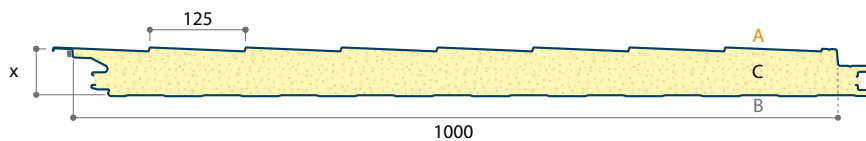
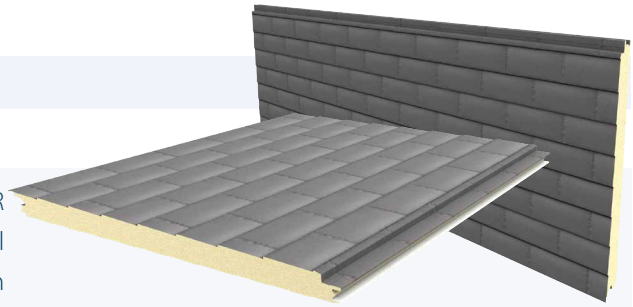
For standard accessories, refer to page 17.

Technical data sheet

JI Slate 1000SF PIR

JI

The JI Slate 1000SF PIR is an insulated panel with PIR foam core. The secret-fix design of this wall or roof panel provides hidden fixation for a seamless transition between the panels, which results in a superbly smooth wall or roof aesthetic.



Article	Thickness (mm)	Weight (kg/m ²)	U (W/m ² K)
10451	60	12,19	0,41
10452	120	14,59	0,18

Calculated in accordance to European product standard EN 14509.

Technical information

Standard length	from 3000 to 10000 mm (step 1000 mm)
Standard Width	1000 mm
Steel grade	S 280 GD
Outer sheet	slate effect profiled steel in 0,50 mm thickness
Inner sheet	standard liner profiled steel
Coatings	Grandem RAL 7024 mat
Installation	horizontal
Accessories	panel bearer, fixings, JI Sealing, internal and external corner flashing, T-profile JI Low Expansion PIR, JI Slate Kit, ridge flashings and small and big gable rake flashing

Reference standards

Galvanized steel	EN 10346
Prepainted	EN 10169
Product standard	EN 14509

Insulation

Core	Polyisocyanurate foam core (PIR), density: 40±5 kg/m ³
Fire classification	B-s2, d0

Technical possibilities

Purlin distance	1500 mm
Minimum roof slope	25° (for roof application)

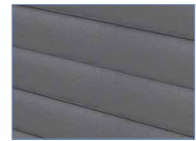
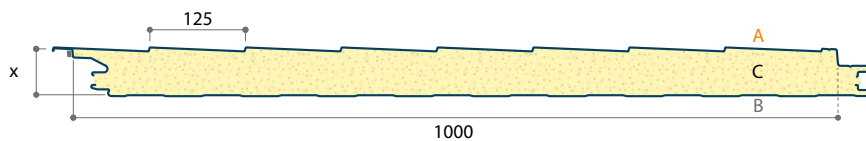
Quality

The Joris Ide products are manufactured complying to the ISO 9001 standards. The processed materials are all high quality and were chosen to match our customer's expectations.

Technical data sheet

JI Sidings 1000SF PIR

The JI Sidings 1000SF PIR is an insulated panel with PIR foam core. The secret-fix design of this wall panel provides hidden fixation for a seamless transition between the panels, which results in a superbly smooth wall aesthetic.



Article	Thickness (mm)	Weight (kg/m ²)	U (W/m ² K)
11811	60	12,19	0,41
11812	120	14,59	0,18

Calculated in accordance to European product standard EN 14509.

Technical information

Standard length	from 3000 to 10000 mm (step 1000 mm)
Standard Width	1000 mm
Steel grade	S 280 GD
Outer sheet	sidings effect profiled steel in 0,50 mm thickness
Inner sheet	standard liner profiled steel
Coatings	Grandem RAL 7024 mat
Installation	horizontal
Accessories	panel bearer, fixings, JI Sealing, internal and external corner flashing, T-profile JI Low Expansion PIR, JI Slate Kit, ridge flashings and small and big gable rake flashing

Reference standards

Galvanized steel	EN 10346
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Fire classification	B-s2, d0

Technical possibilities

Purlin distance	1500 mm
Minimum roof slope	25° (for roof application)

Quality

The Joris Ide products are manufactured complying to the ISO 9001 standards. The processed materials are all high quality and were chosen to match our customer's expectations.

JI Slate / Sidings 1000SF PIR - Wall application

We explain below how to install JI Slate 1000SF PIR or JI Sidings 1000SF PIR. JI Slate 1000SF PIR can be used as finishing for various primary structures because of the convenient assembly using omega profiles.

Steel frame (also available from Joris Ide)



The product is thus ideally suited both for new-build and renovation projects! Below we show how it is assembled against a steel frame. The assembly method for all frames is the same due to the use of omega profiles.

Masonry using (cellular) concrete



Masonry using quick building blocks



Step 1

Primary frame: Steel frame



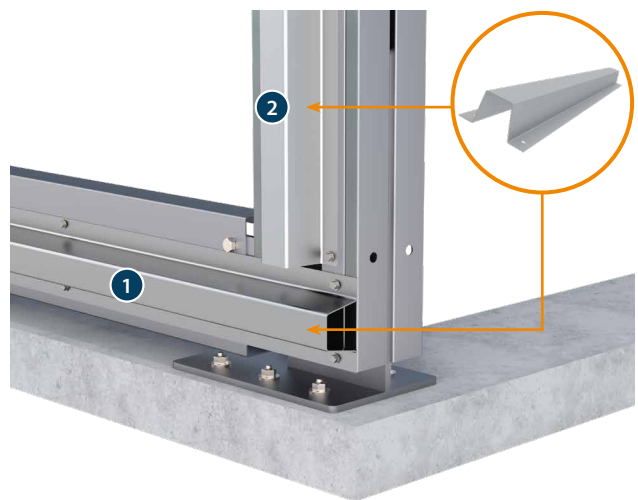
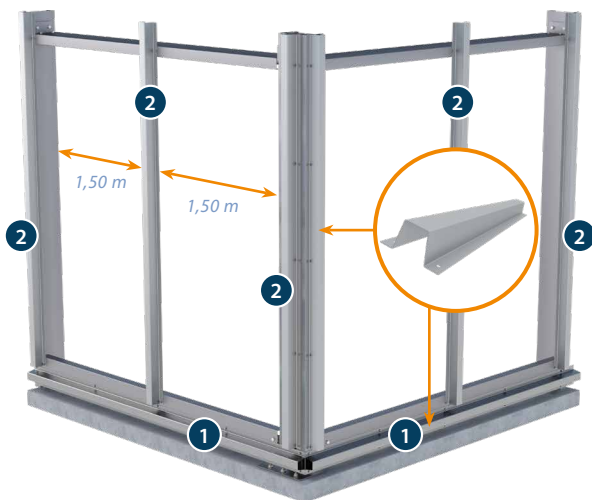
Detail steel frame with a C-profile



The primary frame is designed according to the rules of the art. The underside of the steel frame is fitted with a C-profile, to which the horizontal omega profile can be secured. The C-profile is mainly recommended as a support for the horizontal omega profile when the columns are spaced apart at a greater distance.

Step 2

Omega profiles

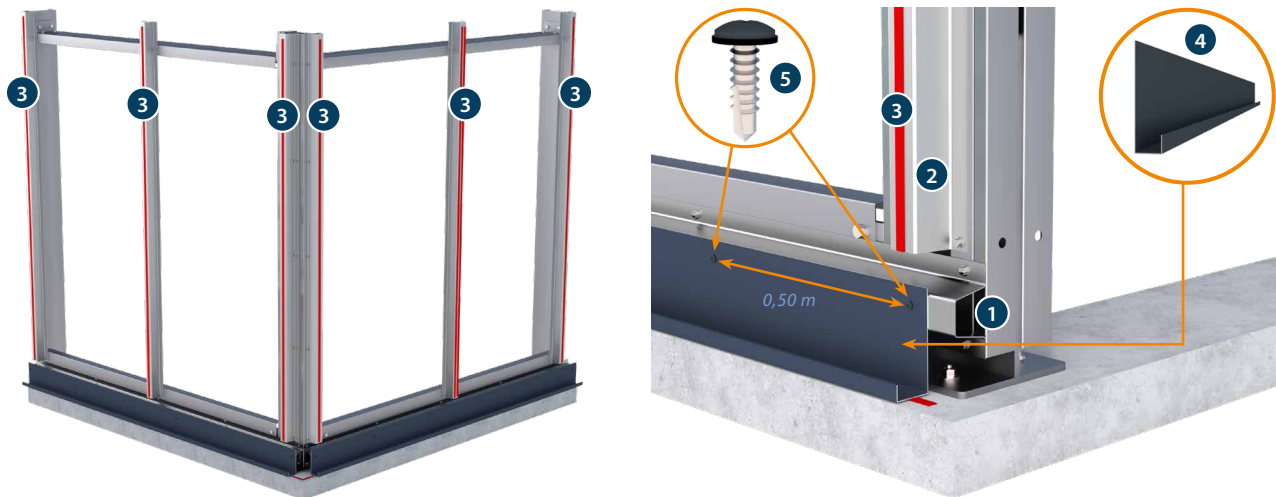


The first step consists of the installation of the Joris Ide omega profiles. These constitute the basis for the flat underframe to which the panels will be secured and must therefore be installed with great care. First the horizontal bottom profile ① is secured, followed by the vertical profiles ②. The distance between the vertical profiles may be no greater than 1.50 m.

JI Slate / Sidings 1000SF PIR - Wall application

Step 3

Panel bearer



After mounting the vertical omegas **2**, the JI Sealing **3** is applied. This ensures a vapor-tight seal between the structure and the panel and reduces contact noise. Then the panel bearer **4** can be confirmed. Fastening is carried out every 0.50 m with Torx screws (4.8 x 35) **5**. Thanks to the omega, the start profile remains nice and straight, which makes sliding the panel easier.

Step 4

Protective film



Before the JI Slate 1000SF PIR panel **6** is lifted the plastic protective film must be peeled back 5 cm from the panel's edge to ensure that the film can be fully removed after installation.

Lifting JI Slate 1000SF PIR



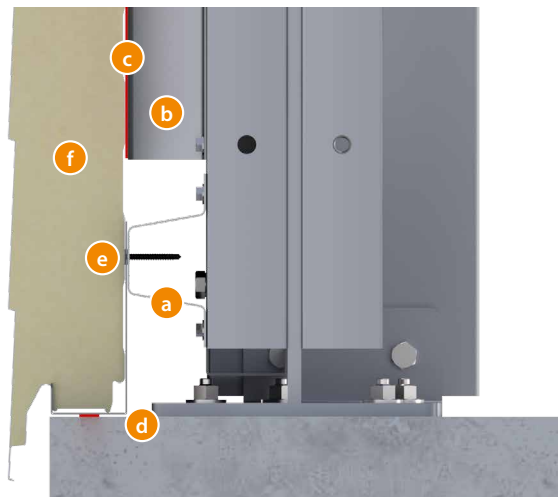
The panel is then raised to an upright position on soft protective blocks to avoid damage and is lifted for assembly.

Step 5

JI Slate 1000SF PIR in panel bearer



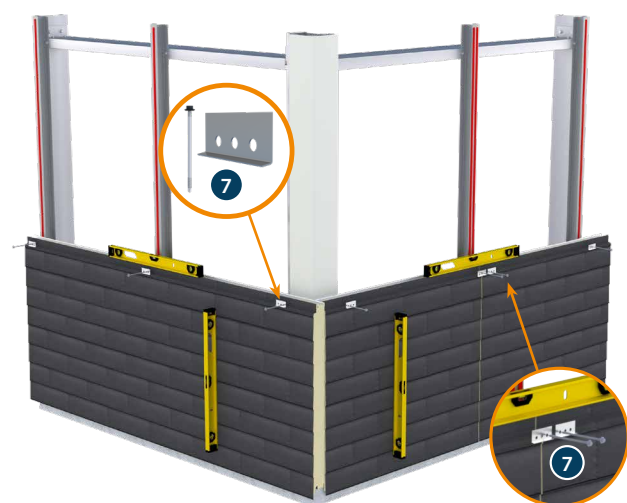
JI Slate 1000SF PIR (6) is deposited in the panel bearer (4) and slid into place horizontally.



- a Horizontal omega
- b Vertical omega
- c Panel bearer
- d Torx screws (every 0.50 m)
- e JI Sealing
- f JI Slate 1000SF PIR

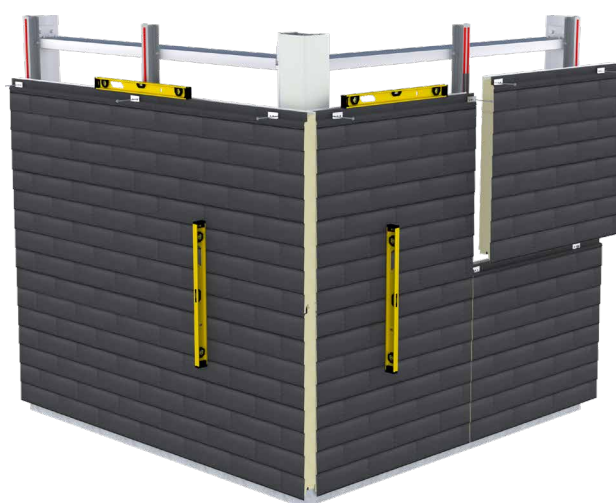
Step 6

Check positioning bottom panels



The panel's horizontal and vertical positioning are checked after which the panel is secured with metal screws (7).

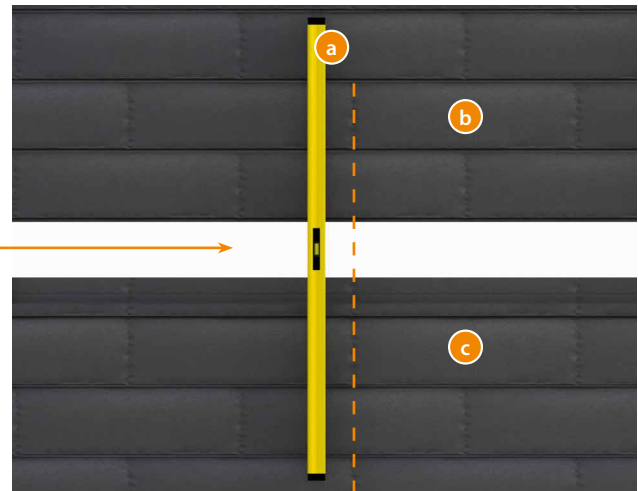
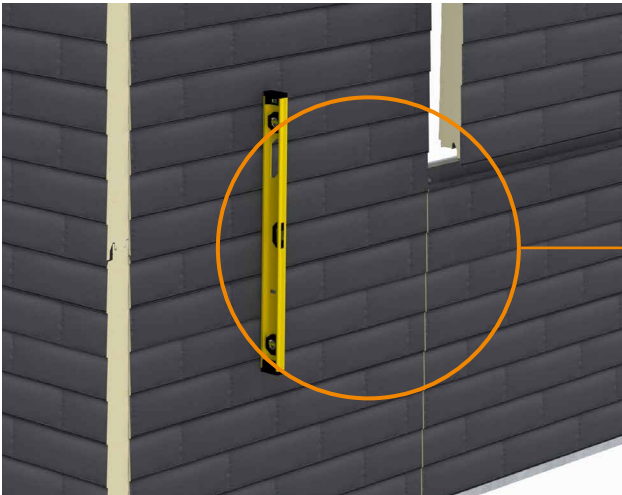
Positioning of the panels above



Once the bottom panels have been assembled, the next layer is installed.

JI Slate / Sidings 1000SF PIR - Wall application

Detail

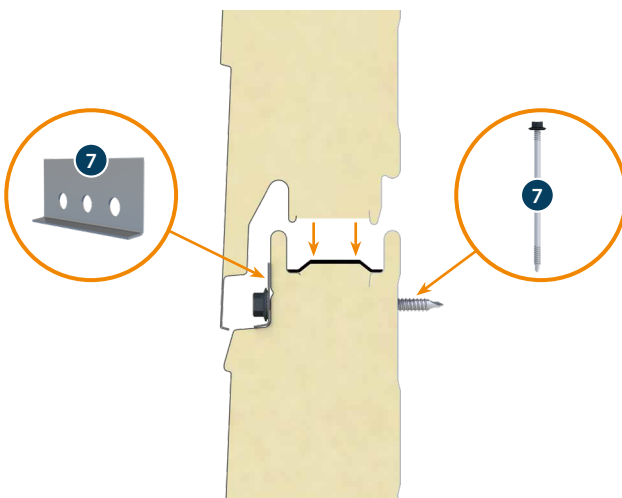


It is important that you check, before the panels are clicked in place, that the joint between the slates is vertically aligned.

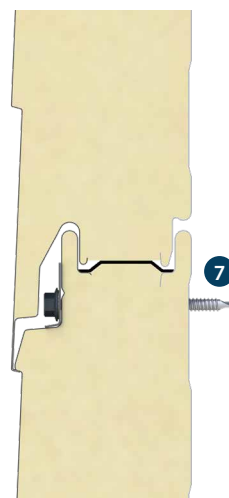
- a level
- b panel to be installed
- c installed panel

Step 7

Secret fix: position before the panel is clicked in place



Secret fix: position after the panel is clicked in place



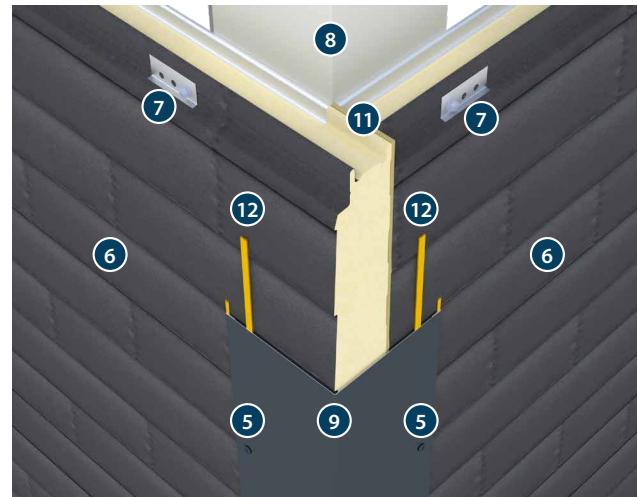
After alignment of the top panel, it can be pressed down to close the hidden fixing. The panel is then secured with pressure distribution plates and metal screws 7.

Step 8

Detail connections Finishing trim

Finish external corner flashing

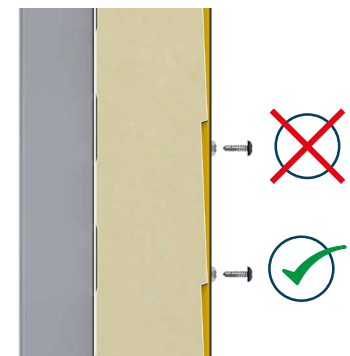
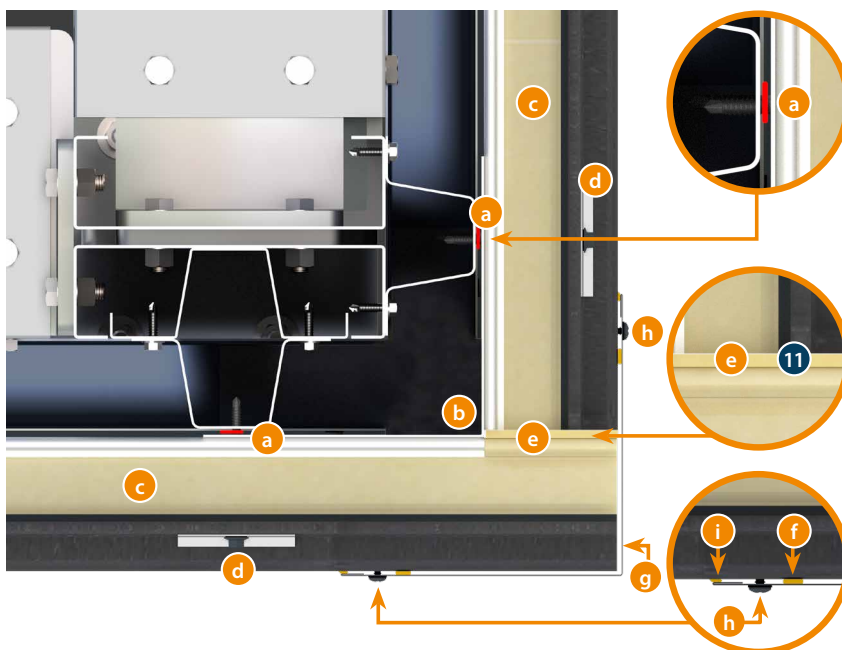
Joris Ide has several accessories for finishing the thermal bridges of your building, including the internal corner flashing **8**, the external corner flashing **9** and the T-profile **10**.



Internal corner flashing **8** is fastened to the omega profiles on the corner of a building using torx screws **5**. The panels are then installed right up to the corner. To reduce the risk of cold bridging, the inner face of the continuous panel can be interrupted (local removal of the internal liner, depending on panel thickness 60 or 120 mm). JI Low Expansion PIR **11** is then injected in the joint. To make the corner water and airtight, when installing an external corner flashing **9**, apply two lines of JI Slate Kit **12** to the JI Slate 1000SF panel **6** recommend using two torx screws **5** per metre as shown below. The external corner flashing ensures a smooth transition between walls.

Cross-section corner

Assembly screws

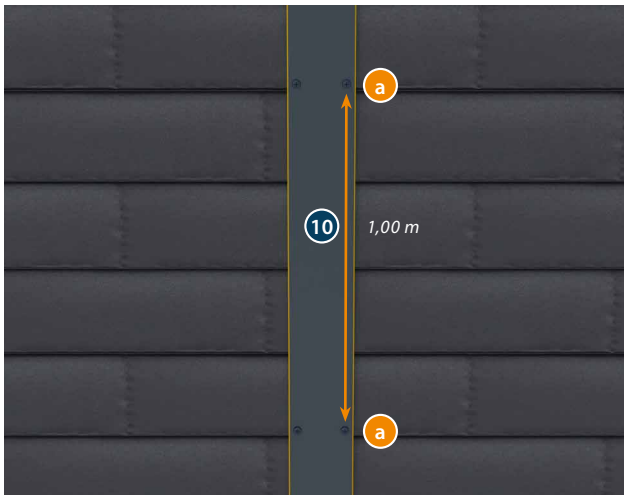


- a** JI Sealing
- b** Internal corner flashing
- c** JI Slate 1000SF PIR
- d** Pressure distribution plate + metal screw
- e** JI Low Expansion PIR
- f** JI Slate Kit
- g** External corner flashing
- h** Torx screws
- i** JI Slate Kit

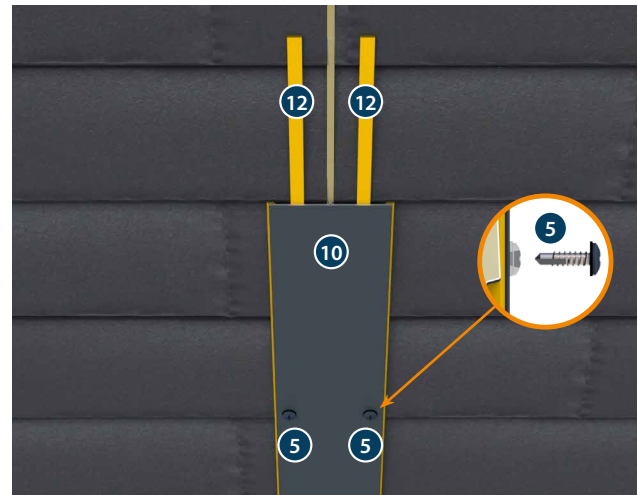
JI Slate / Sidings 1000SF PIR - Wall application

Step 9

T-profile

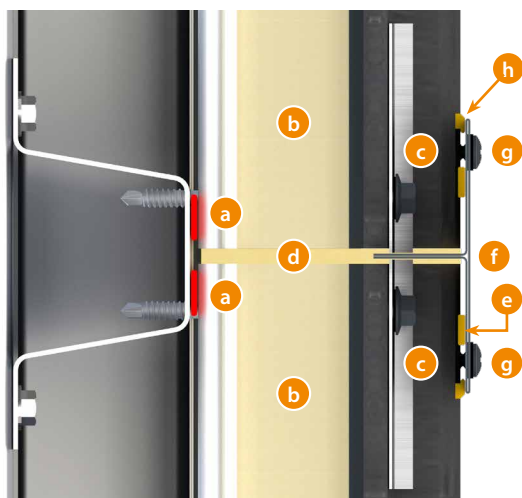


Front view



The ends of either panel are sealed with JI Low Expansion PIR. Before this foam has cured, two lines of JI Slate Kit 12 must be applied after which the T-profile 10 is installed. The T-profile is then secured with two torx screws 4 every metre in the designated place a. The seam must be sealed with JI Slate Kit.

Cross-section



- a JI Sealing
- b JI Slate 1000SF PIR
- c Pressure distribution plate + metal screw
- d JI Low Expansion PIR
- e JI Slate Kit
- f T-profile
- g Torx screws
- h JI Slate Kit

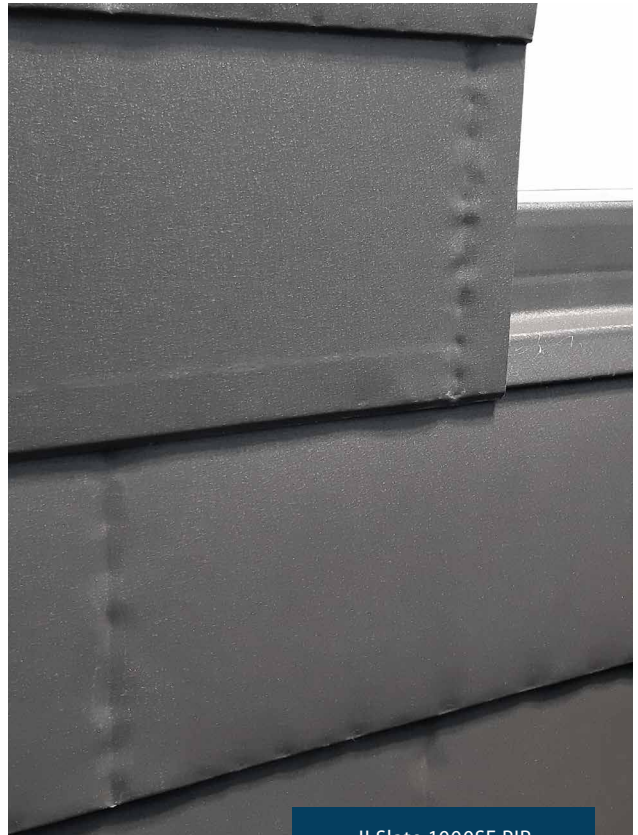
T-profile and external corner flashing



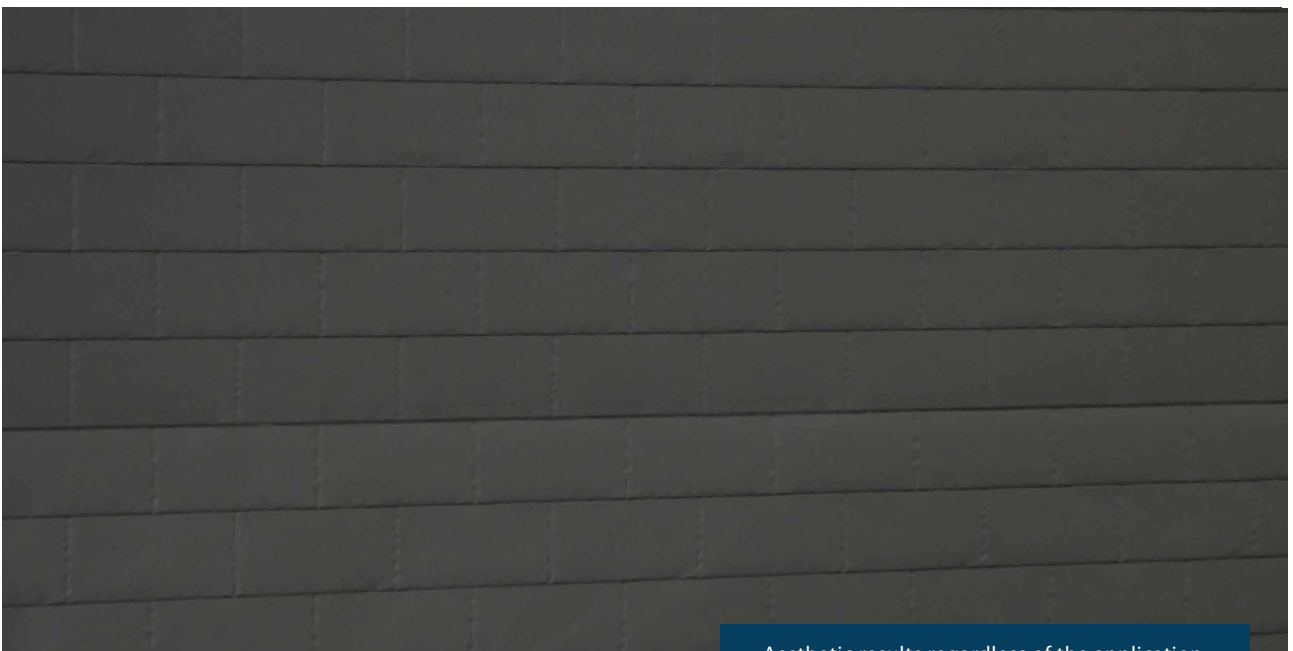
If you follow the above instructions, you will achieve a façade with a superbly smooth aesthetic using JI Slate 1000SF PIR panels.



JI Slate 1000SF PIR, detail overlap.



JI Slate 1000SF PIR

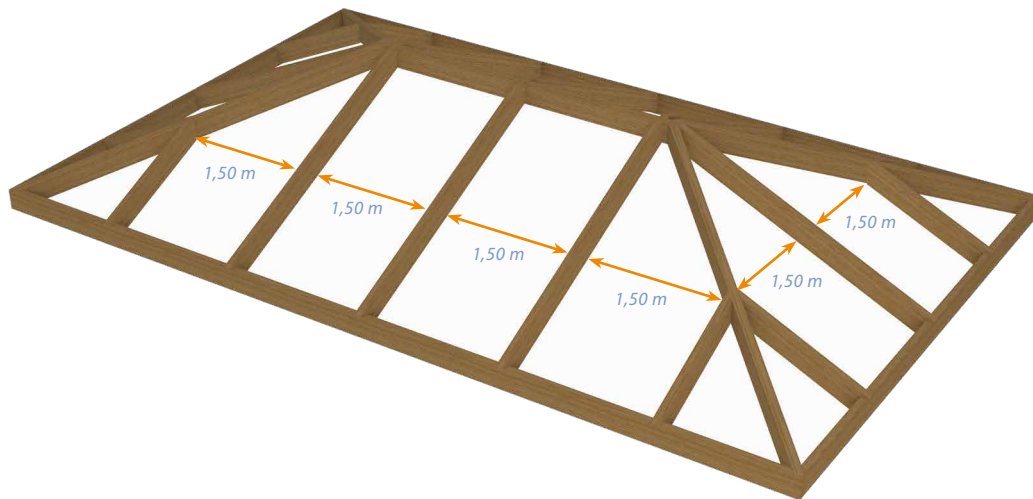


Aesthetic results regardless of the application.

JI Slate / Sidings 1000SF PIR - Roof application

Step 1

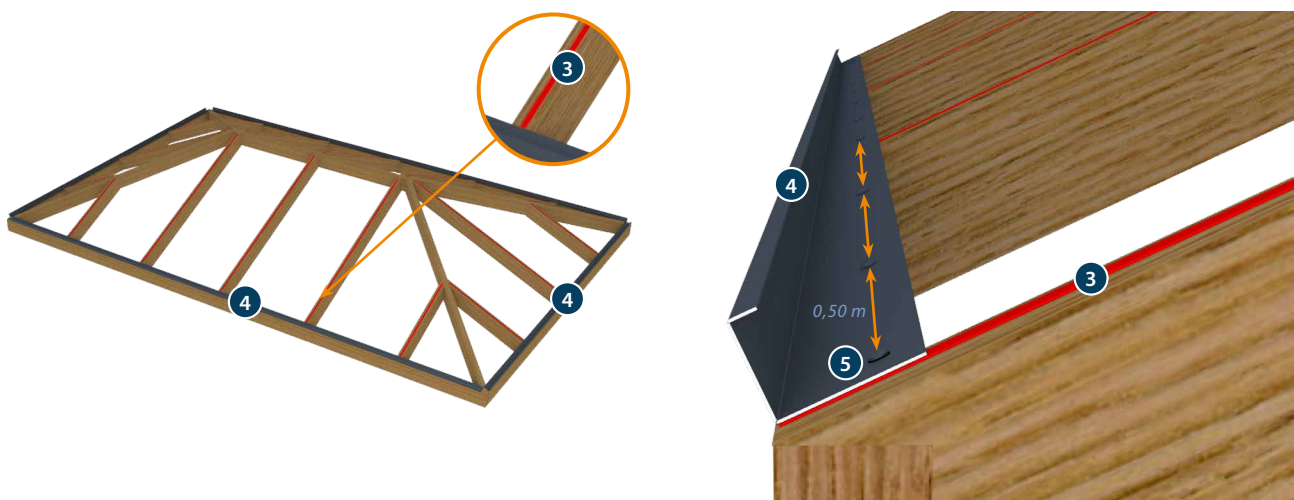
Roof structure



The installation of JI Slate 1000SF PIR on roofs is similar to that of the wall application. The maximum distance between the vertical supports is 1.50 m. The minimum roof slope is 25° (or 46.6 cm/m).

Step 2

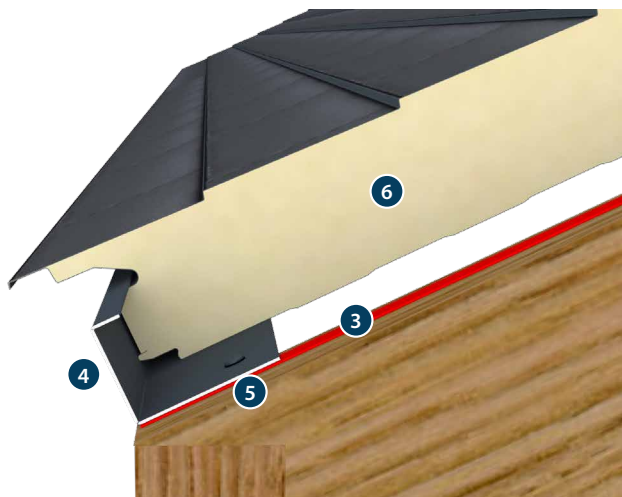
Panel bearer



Once the truss structure has been assembled, the panel bearer ④ can be installed. This profile must be secured every 0.50 m with torx screws ⑤. JI Sealing strips ③ are used to reduce noise transmission between the purlin and the panel.

Step 3

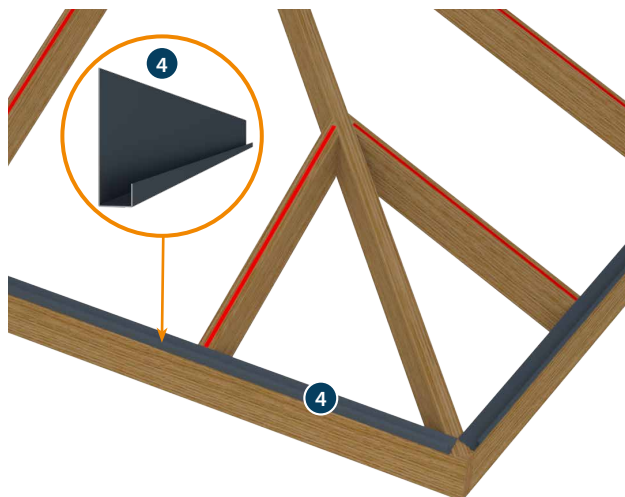
JI Slate 1000SF PIR in panel bearer



The first JI Slate 1000SF PIR panel **6** can then be installed. Note that the panel bearer **4** also serves as trim for the eaves.

Step 4

Corner trim for a roof with a rake

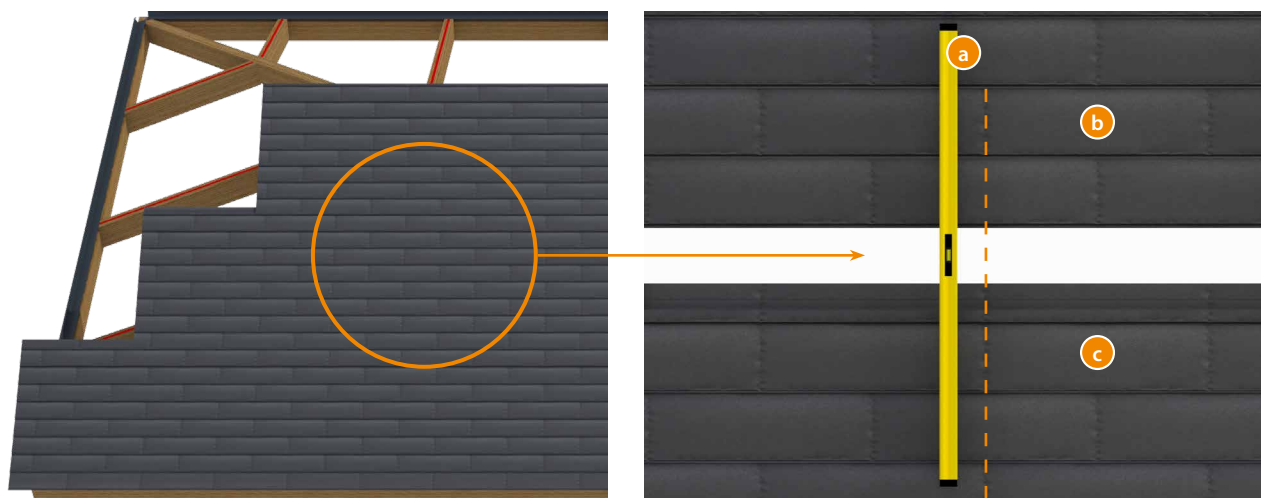


Depending on the roof type and shape, the panels will have to be cut. When cutting, you must take the relative positioning of the JI Slate 1000SF PIR panels into account.

Thanks to the placement of the panel bearer **4**, the corner panel can easily be slid into place and cut to the required size.

Step 5

Position of the panels

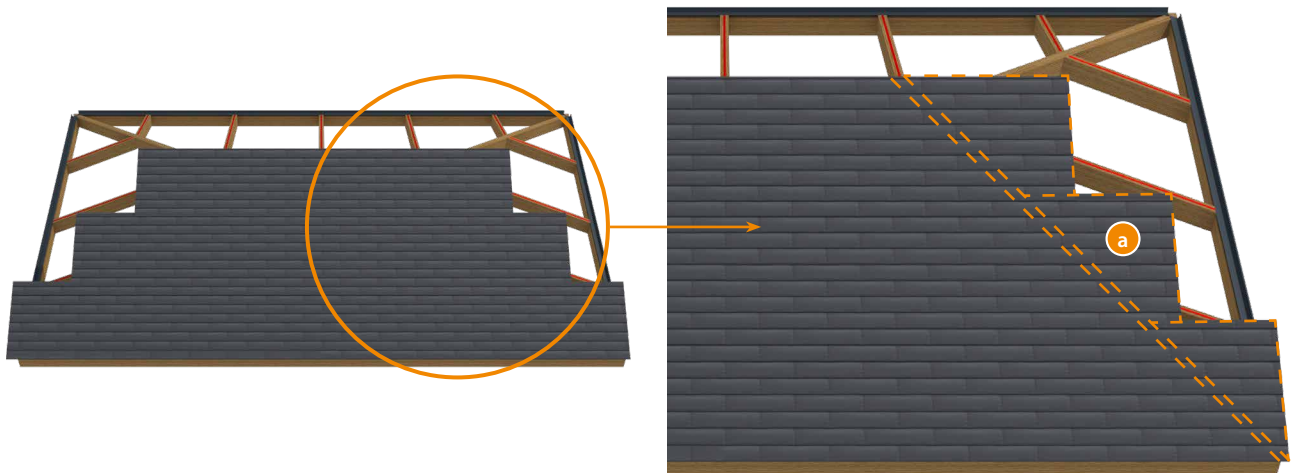


- a** level
- b** panel to be installed
- c** installed panel

JI Slate / Sidings 1000SF PIR - Roof application

Step 6

Cutting the panels



The full panel lengths are laid on the roof one by one.

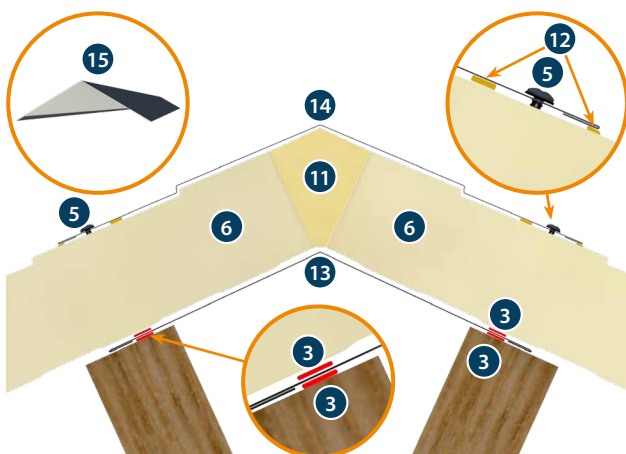
a Cutting the panels

Step 7

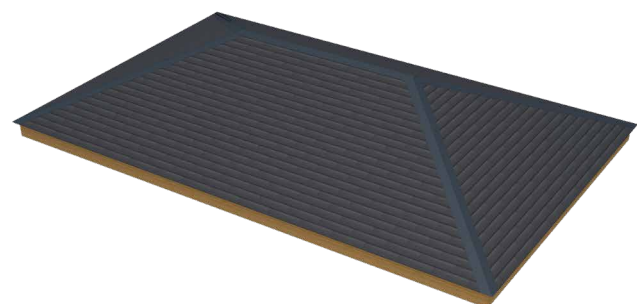
Ridge

Finished roof

All the connections between the panels can be finished with the appropriate accessories. As is the case with wall application, cold bridges must be sealed.



Internal ridge flashing **13** is installed on the ridge. This is installed on top of the JI Sealing **3**. The last roof panels **6** are then installed and the cold bridge can be eliminated with JI Low Expansion PIR **11**. To finish the ridge, use an external ridge flashing with JI Slate effect **14** or an external reinforced flat ridge flashing **15**. The finishing with torx screws **5** and the use of JI Slate Kit **12** is similar to the installation of the trim for wall applications.



The roof edges are also finished with edge trims.



JI Slate 1000SF PIR

Legend

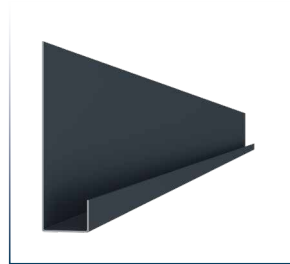
Overview



Omega profile
(reference 1 and 2)



JI Sealing (15 x 4,5 mm)
(reference 3)



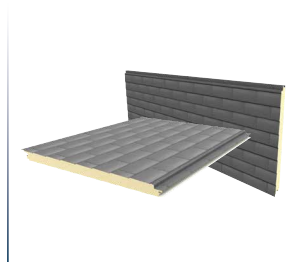
Panel bearer for 60 mm panel
(reference 4)



Panel bearer for 120 mm panel
(reference 4)



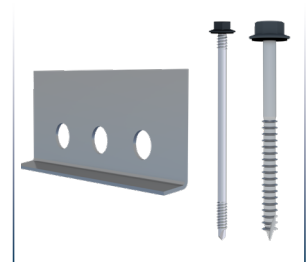
Torx screw (4,8 x 35 mm)
(reference 5)



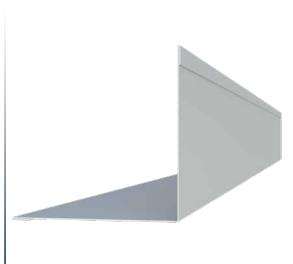
JI Slate 1000SF PIR panel
(reference 6)



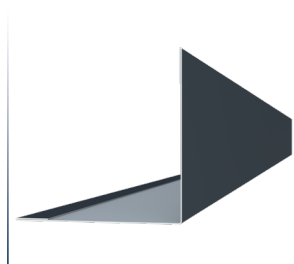
JI Sidings 1000SF PIR panel
(reference 6)



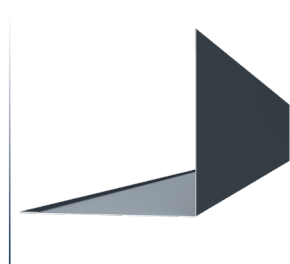
Pressure distribution plate+ metal
or wood screw (reference 7)



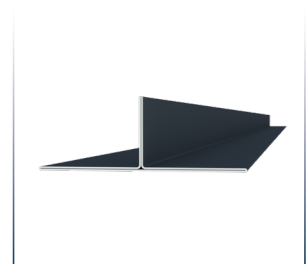
Internal corner flashing
(reference 8)



External corner flashing
Dev. 240 mm (reference 9)



External corner flashing
Dev. 400 mm (reference 9)



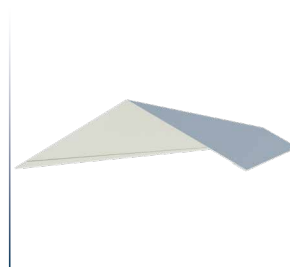
T-profile
(reference 10)



JI Low Expansion PIR
(reference 11)



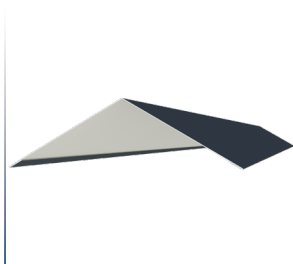
JI Slate Kit
(reference 12)



Internal ridge flashing
(reference 13)



External ridge flashing with
JI Slate effect (reference 14)

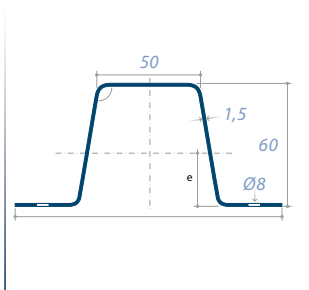


External reinforced flat
ridge flashing (reference 15)

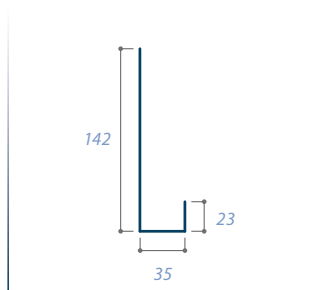
Accessories

Standard*

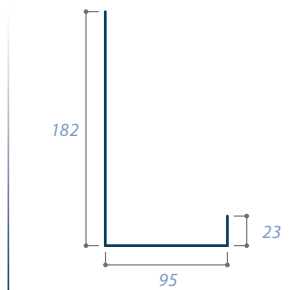
Joris Ide provides the best finish for your building with a wide range of accessories that are tailored to your project.



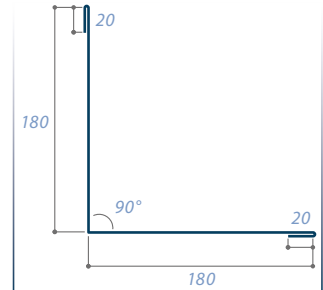
Omega profile



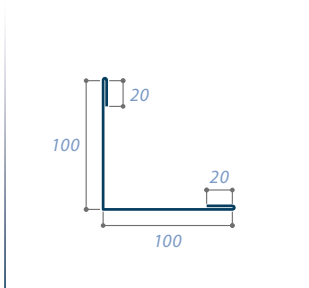
Panel bearer
for 60 mm panel



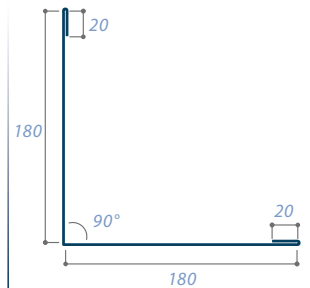
Panel bearer
for 120 mm panel



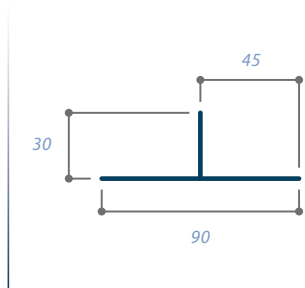
Internal corner flashing



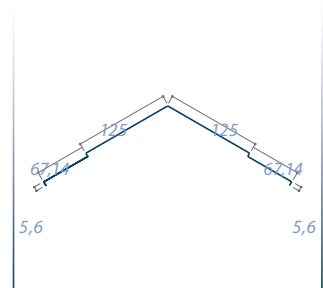
External corner flashing
(Development 240 mm)



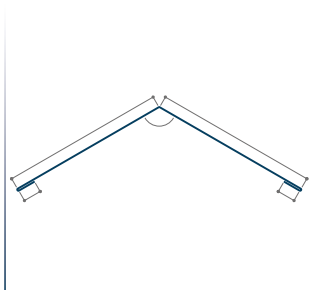
External corner flashing
(Development 400 mm)



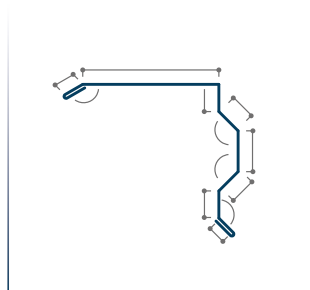
T-profile



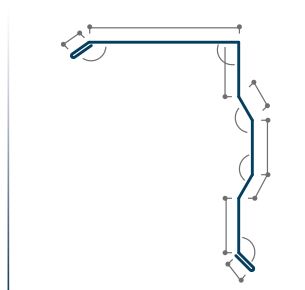
External ridge flashing with
JI Slate effect



External reinforced flat
ridge flashing



Small gable rake flashing



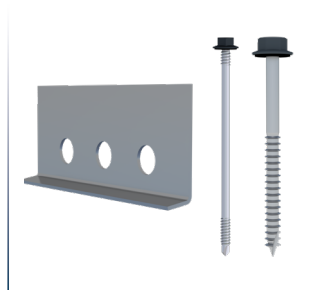
Big gable rake flashing



JI Sealing
(15 x 4,5 mm)



Torx screw(4,8 x 35 mm)



Pressure distribution plate+ metal
or wood screw



Touch up paint



Bits

*Customisation on request.





JORISIDE
THE STEEL FUTURE

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