

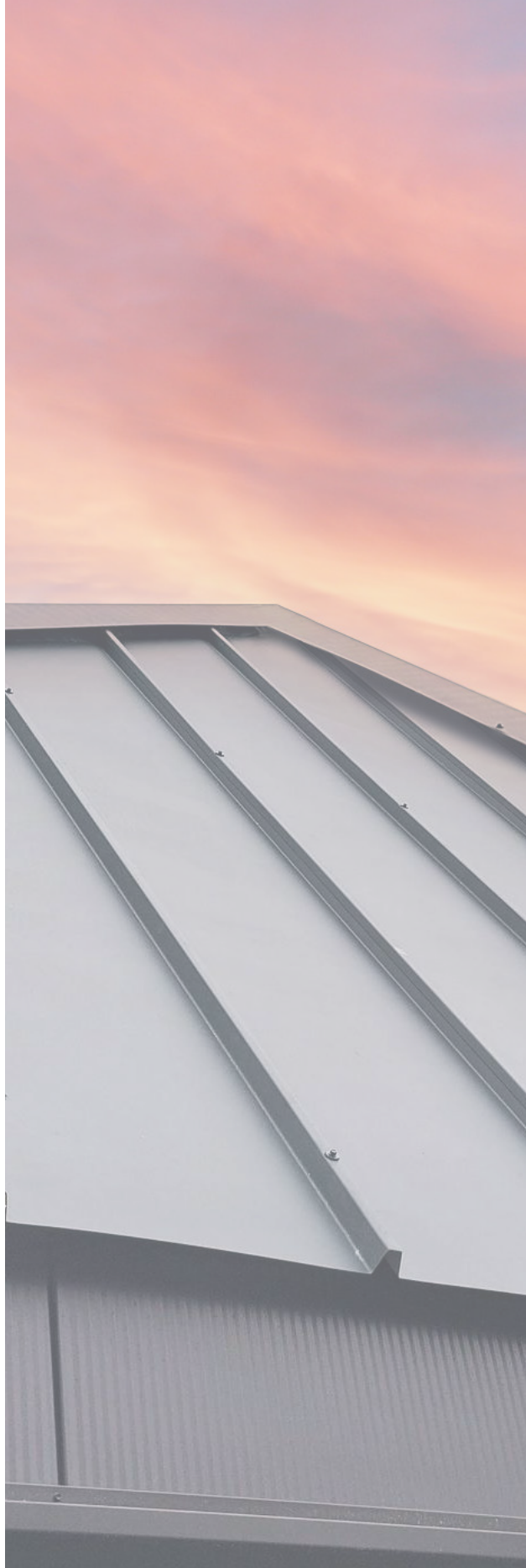


JI VIEO ROOF 1050

Installation guide

MR011 / 29 FEB 2024

JORISIDE
THE STEEL FUTURE



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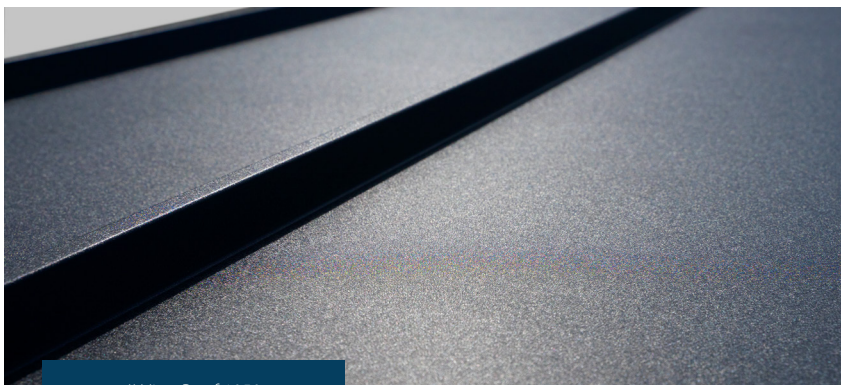
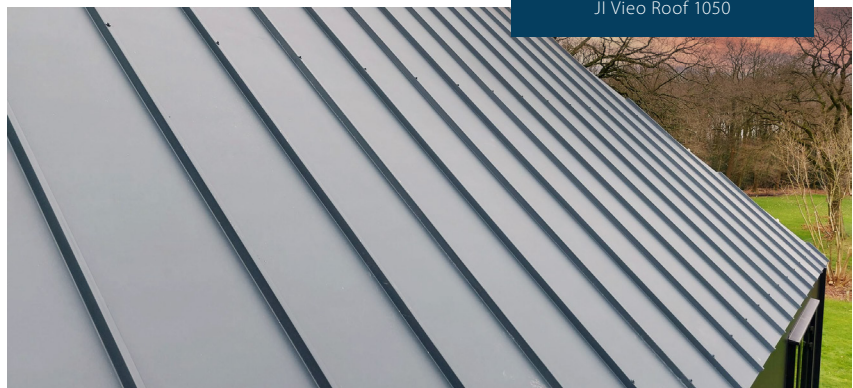
Index

JI Vieo Roof 1050	1
Technical datasheet	2
Materials	4
Performance	5
Dimensions and tolerances	6
Certifications, quality and durability	7
JI Vieo Roof 1050 - Roof application, Step 1	8
JI Vieo Roof 1050 - Roof application, Step 2	10
Accessories	12
Fasteners	12
Sealants	12
Flashings and others	13

JI VIEO ROOF 1050

Installation guide

The JI Vieo Roof 1050 insulated roof panel is specially designed for sloping roofs. This slim sandwich panel not only offers a stunningly elegant appearance with its standing seam outer sheet but also delivers excellent performance with an advanced composition.

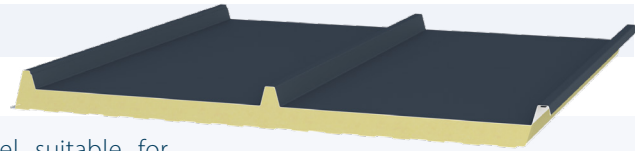


The Joris Ide group, with more than 3 decades of experience, processing 419.000 tonnes of steel per year and have 16 production sites in over 8 countries. With the help of more than 1230 employees Joris Ide is your dedicated partner.

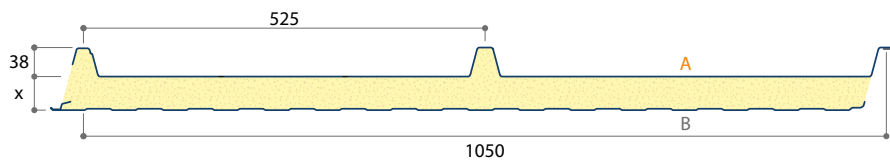
Insulated panels

JI Vio Roof 1050

JI



JI Vio Roof 1050 is an elegant insulated roof panel suitable for pitched roofs. The sandwich panel consists of an aesthetic outer sheet with standing seam, a polyisocyanurate (PIR) foam core without harmful CFC-HCFC and a lightly lined inner sheet. In terms of appearance, JI Vio Roof 1050 is similar to that of a traditional zinc roof, but thanks to the all-in-one solution, it is a lot faster to install. Thanks to its availability in three thicknesses : 40, 100 and 130 mm, both the thermal and mechanical requirements of different projects can be met.



Article	Thickness (mm)	Weight (kg/m ²)	U-value (W/(m ² .K))
18060	40	12,42	0,49
18061	100	14,69	0,21
18062	130	15,89	0,16

Technical properties

Length	from 2550 mm to 20500 mm
Width	1050 mm
Metal type	Steel S280 GD
Outer sheet (A)	Steel trapezoidal sheet, type 38-525-1050, thickness: 0,75 mm
Outer sheet coating	Grandemat (40 μ) RAL 7016, RAL 9007 and RAL 9005
Inner sheet (B)	lined profile inner sheet, thickness: 0,40 mm, RAL 9002 15μ
Fixation	recommended with support bracket on the crown
Roof pitch	≥ 5°
Accessories	Caps, bending plates, sealants, etc.

Standard

Galvanized steel	EN 10346:2015 - tolerances according to EN 10143:2006
Coil coating	EN 10169:2022
Tolerance	EN 14509:2013 (Geometry)
Calculations	EN 14509:2013

Insulation

Fire classification	B-s2,d0 according to EN 13501-1:2019
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Certificates

Mechanical	Flat-rate application of Z-10.49-691
Environmental	EPD-PPA-20180076-CBG1-EN

Advantages

- fast installation
- good thermal properties
- elegant appearance
- safe installation and maintenance possible thanks to non-slip coating
- larger spans than traditional zinc roofs

Span table

The span tables below are valid for roof application and under the compliance of the following assumptions:

- Self-weight is already included on the span table.
- Deflection limit for short term loads: $L/250$.
- The minimum support width at the end and intermediate supports is 50 mm. Larger supports are permissible.
- Fixing performances are not included.
- Linear interpolation may be used to determine to capacity of an intermediate span length.
- In the case of double or multiple span conditions, this span/load table can only be used when all spans are equal or when the difference between them is less than 10%.

Span (m) for given downward pressure Load type (kN/m²)

Load (kN/m ²)	Single			Double			Multiple		
	40	100	130	40	100	130	40	100	130
0,80	1,80	3,21	3,72	2,16	2,41	2,78	2,38	2,41	2,78
1,00	1,72	2,72	3,05	2,00	2,04	2,28	2,00	2,04	2,28
1,20	1,64	2,36	2,58	1,69	1,77	1,94	1,69	1,77	1,94
1,40	1,46	2,08	2,24	1,46	1,56	1,68	1,46	1,56	1,68
1,60	1,29	1,86	1,98	1,29	1,40	1,49	1,29	1,40	1,49
1,80	1,16	1,69	1,77	1,15	1,26	1,33	1,15	1,26	1,33
2,00	1,04	1,36	1,61	1,04	1,02	1,20	1,04	1,02	1,20
2,50	0,84	1,14	1,30	0,84	0,86	0,97	0,84	0,86	0,97

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

Span (m) for given upward suction Load type (kN/m²)

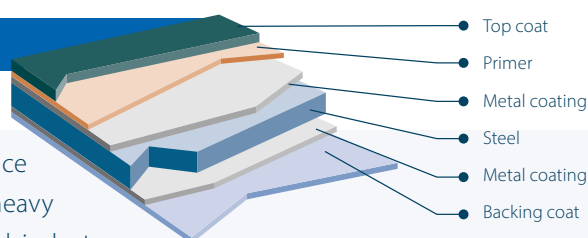
Load (kN/m ²)	Single			Double			Multiple		
	40	100	130	40	100	130	40	100	130
-0,80	1,70	4,04	4,78	3,04	4,37	4,41	2,84	4,92	5,26
-1,00	1,62	3,80	4,48	2,67	4,35	4,41	2,54	4,35	4,65
-1,20	1,56	3,60	4,22	2,40	3,94	4,22	2,31	3,94	4,22
-1,40	1,50	3,42	3,88	2,18	3,63	3,83	2,12	3,63	3,88
-1,60	1,44	3,22	3,61	2,00	3,34	3,46	1,97	3,39	3,62
-1,80	1,39	3,05	3,40	1,85	3,06	3,16	1,84	3,18	3,40
-2,00	1,35	2,90	3,22	1,72	2,83	2,92	1,72	3,01	3,22
-2,50	1,22	2,59	2,86	1,45	2,68	2,86	1,46	2,68	2,86

For other cases that doesn't fit within the assumptions presented above, please contact the technical assistance department of Joris Ide

Materials

Grandemat

The Grandemat is a thermoset polyester paint. The surface treatment and paint are free of hexavalent chromium and heavy metals. It is mostly used on external buildings & general industry applications: tiles, cladding etc.



Technical information

Thickness*		40 microns
Composition	Front	15 microns primer + 25 microns polyester top coat
	Back	10 microns backing coat
Gloss (Gardner 60°)*		Maximum 5 GU
Appearance		Wrinkled

Performance

Adhesion of the coating (T-bend)		≤ 1 T
Resistance to cracking on bending (T-bend)		≤ 2 T
Impact resistance		18 J
Resistance on deformed parts:	Marciniak test	≤ 1C1
Clemen scratch resistance		≥ 1.5 kg
Corrosion resistance:		
	Salt spray test	500 hours
	Corrosion resistance category	RC4
Condensation resistance (QCT)		1500 hours
UV resistance:		
	QUV (UVA + H2O) test	ΔE ≤ 3; GR ≥ 60%
	UV resistance category	RUV3
Fire behaviour classification (EN 13501-1)		A1
Resistance to acids and bases		Good
Resistance to solvents:		
	Aliphatics and alcohols	Very good
	Ketones	Low
	Aromatics	Good to very good

These performance characteristics refer specifically to metallic coating Z225 (guaranteed minimum).

Guarantee

Non-perforation of the sheet metal	≤ 20 years, depending on the external environment
Non-delamination of the paint	≤ 20 years, depending on the external environment
Aesthetic appearance (ΔE ≤ 3; Gloss retention ≥ 50%)	≤ 5 years, depending on the geographic location and the paint colour

Benefits**

- Nice aesthetic appearance: matt and wrinkled
- Very good corrosion resistance

* Nominal value, tolerance according to EN 10169.

** For more informations, please contact our sales department.

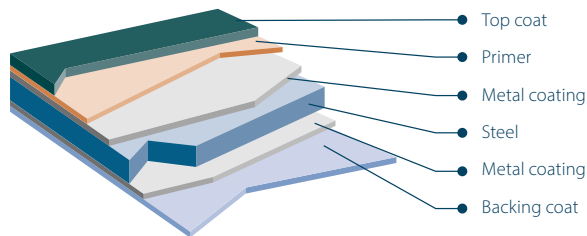
Materials

A1. External weather sheet

Grandemat

40 μ

15 microns primer + 25 microns top coat



External building and general industry applications: tiles, cladding etc.

- Thermosetting paint
- Very good corrosion resistance
- Very good formability
- Nice aesthetic appearance: matt and wrinkled
- Surface treatment and paint: free of hexavalent chromium and heavy metals
- Non-slip roofing: installing large surfaces has never been so secure.
- Up to 20 years warranty: assurance of a long-lasting roof.
- Robust: engineered to withstand the tests of time and nature.

A2. Internal liner sheet

Internal conditions of a building can vary; Joris Ide can offer a wide range to suit heavy-duty environments such as humidity and ammoniac. Please consult our colorflow brochure for detailed information.

A3. Insulation core

Jl Vieo Roof 1050 insulated panels are made with a high thermal performance and environmental sustainable PIR foam with zero ozone depletion and a low global warming potential.

Performance

Environmental

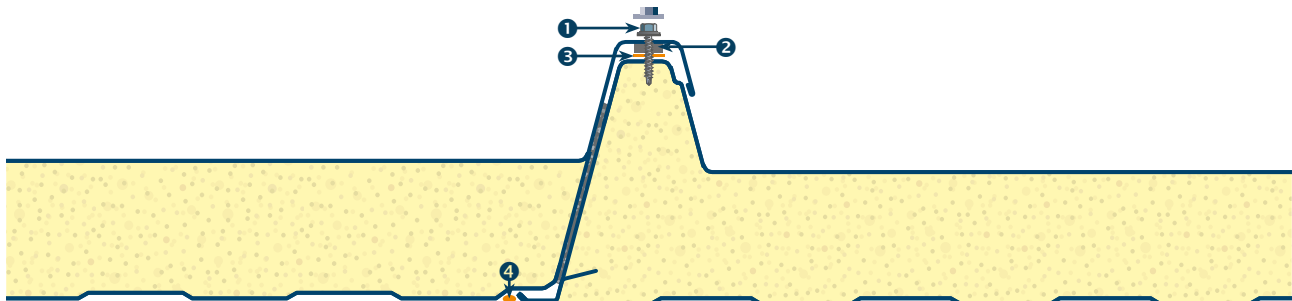
The Jl Vieo Roof 1050 corresponds to the BRE Global Green Guide online generic specification Galvanised steel rafters and joists, composite profiled roof cladding (steel inner lining, pentane blown PIR insulation, coated steel outer skin) (ref. 812550001) which achieves a summary rating of A+ within pitched roofs. The production facility is ISO 14001:2015 and ISO 37301:2021 certified.

Fire

The Jl Vieo Roof 1050 is classified B - s2,d0 when tested to BS EN 13501-1:2018.

Dimensions and tolerances

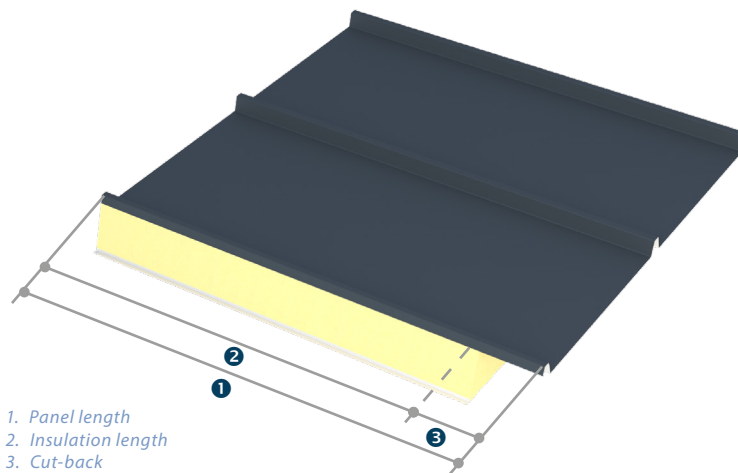
Minimum cutback : 50 mm – maximum cutback : 300 mm (no cutback: not possible). Panels can be manufactured for placing left to right and right to left as per your requirements.



- 1. Stitching screw
- 2. Compressible factory applied sealant

- 3. Additional (site-applied) gun-grade sealant, recommended on coastal sites
- 4. Additional (site-applied) gun-grade sealant, for full air tightness

Cut-back system



- 1. Panel length
- 2. Insulation length
- 3. Cut-back

Product tolerance

Length < 3000 mm	± 5 mm
Length > 3000 mm	± 10 mm
Width (mm)	± 2 mm
Gauge (mm)	± 2 mm

Product tolerances [According to EN 14509:2013]

Certifications, quality and durability

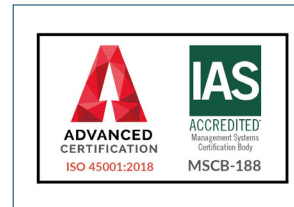
The JI Vieo Roof 1050 is manufactured according to the ISO 9001:2015 and is assembled from high-quality raw materials which are selected by a detailed supply chain management and in-house laboratory controls. The Joris Ide plant in Zwevezele is ISO 14001:2015 certified. The product is produced to the highest quality standards such as EN 14509. The JI Vieo Roof 1050 carries the product conformity according to the European legislation and therefore all packs are CE-marked and carry the Declaration of Performance.



Assessed to
ISO 9001:2015



Assessed to
ISO 14001:2015



Assessed to
ISO 45001:2018

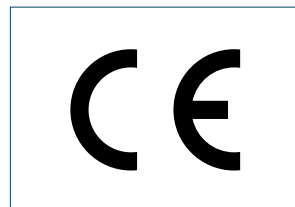


Assessed to
BES 6001

Optional



Assessed to
ISO 37301:2021



Accessories

Joris Ide can supply accessories such as foam fillers, flashings, matching outer single skin sheets.

Maintenance composite panels

Joris Ide advises to do an annual inspection of the panels and to carry out any remedial work identified during inspection.

The maintenance & cleaning frequency is dependant on the application environment and actual pollution conditions of the composite panel. Exterior used panels need to be cleaned once per year. For interior used panels, the cleaning is dependant on the actual pollution conditions.

The cleaning of building walls should be made from up to down manually or by suitable cleaning facilities. Please notice that any cleaner which includes corrosive material is forbidden to be used for the cleaning. Specific cleaning processes as follow:

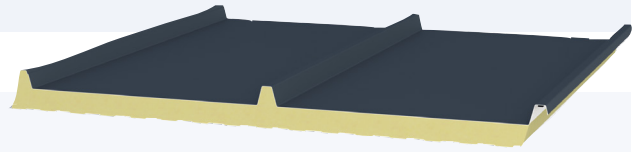
- Use plenty of clean water to wash the panel's surface;
- Use soft cloth with diluted detergent to wipe the panel's surface softly;
- Use clean water again to wash the stains off;
- Check the panel's surface and special cleaning with detergent is needed, if some parts are still not clean;
- Use clear water to wash the panels' surface till all stains have been washed out.

Notice:

Please don't clean if the panel's surface is hot (over 40 °C) because too fast volatility of the water will do harm to the coating. Please notice especially that suitable detergent should be chosen. Generally neutral detergent is OK. Please don't use strong alkaline detergent, such as potassium hydroxide, sodium hydroxide and also please don't use strong acid detergent, abrasive detergent and paint soluble detergent. We would suggest to clean a small part as an experiment before carrying out thorough cleaning of the whole project.

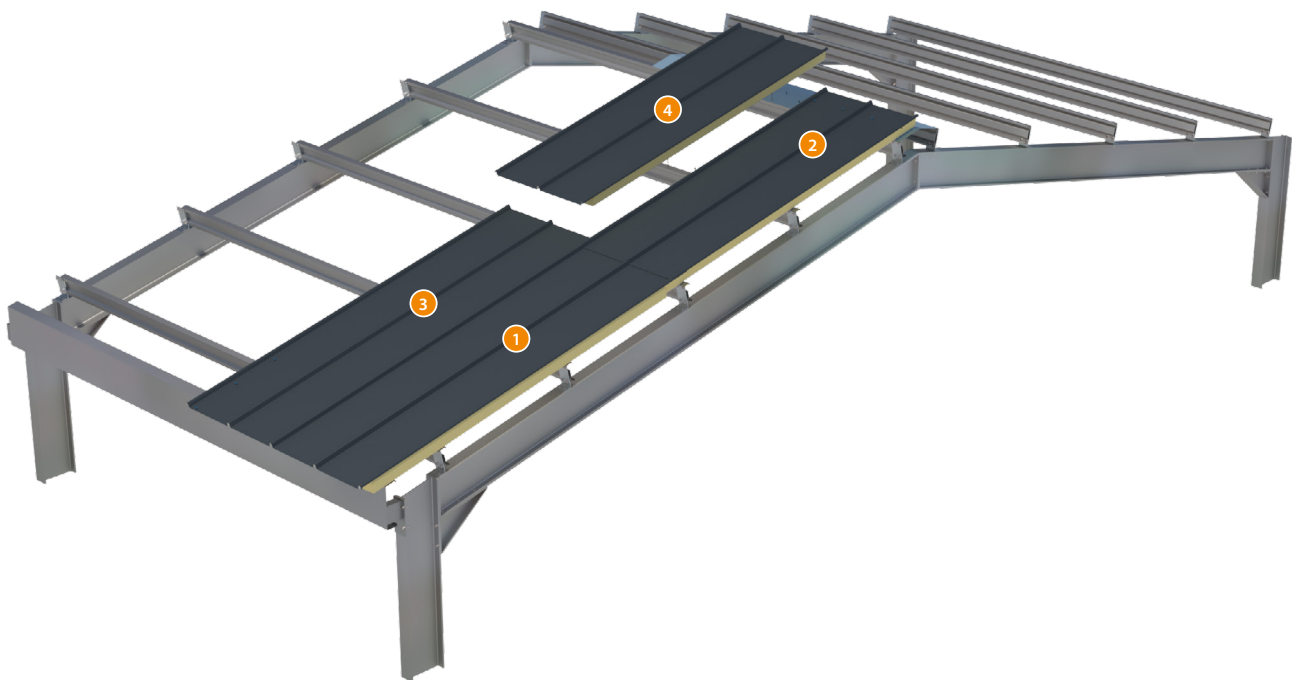
JI Vieo Roof 1050 - Roof application, Step 1

JI Vieo Roof 1050

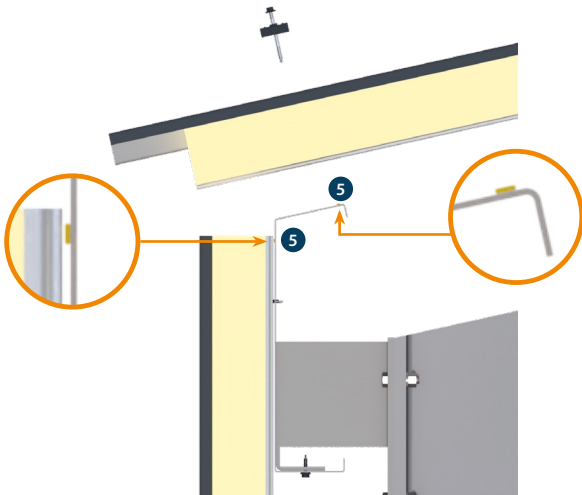


The JI Vieo Roof 1050 is used for pitched roofs in residential, industrial, commercial and public buildings. Due to its metal inner and outer sheet, it combines thermal resistance with large spans. The minimum pitch to be applied is 5° or more after deflection.

The panels must be placed from eaves to ridge and from right to left as standard (side lap on the other side can be produced on demand). The panels are to be placed as indicated with ①, ②, ③ and ④.

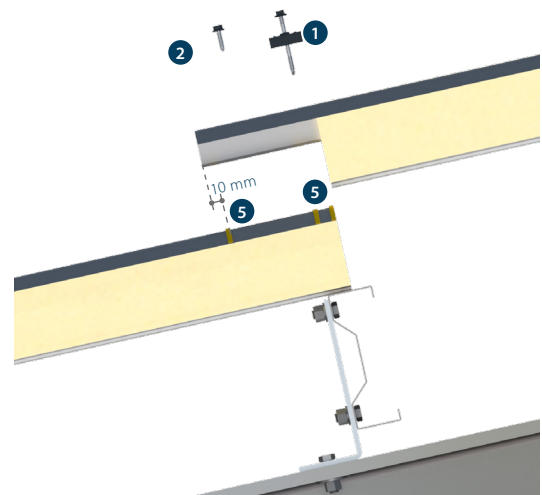


Eaves detail



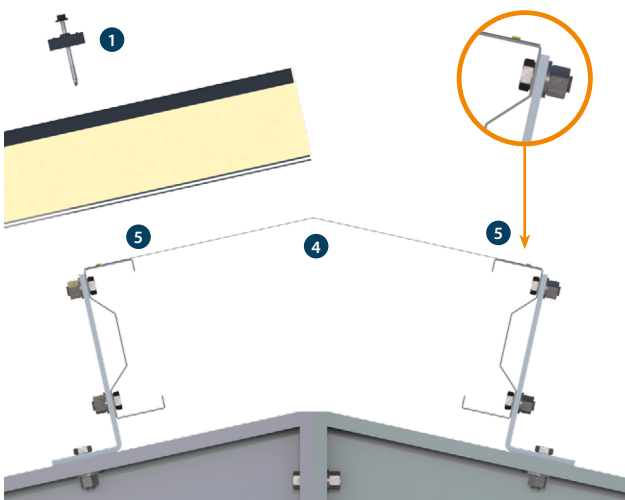
A strip of Butyl tape air sealant 9 mm x 3 mm **5** should be applied to the eaves beam to protect the contact with both wall and roof panels.

End lap



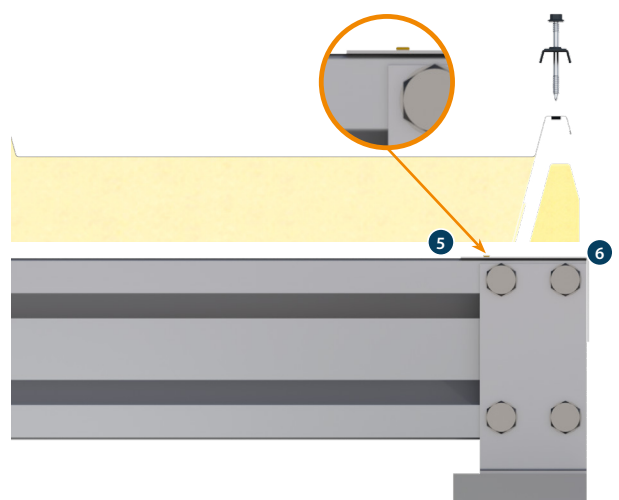
Overlap of JI Vieo Roof 1050 panels with a minimum 150 mm. Main fastener **1** on each top with saddle washer. Stitcher screws **2** in each crown at 50 mm from edge. 3 x strips of Butyl tape air sealant 9 mm x 3 mm **5**. Butyl should be placed at 10 mm from edge (max. 20 mm).

Internal ridge



An Internal flashing **4** sealed with a butyl air sealant 9 mm x 3 mm **5** for a proper external ridge. Flashing fixed by panel main fixings with saddle washer **1**.

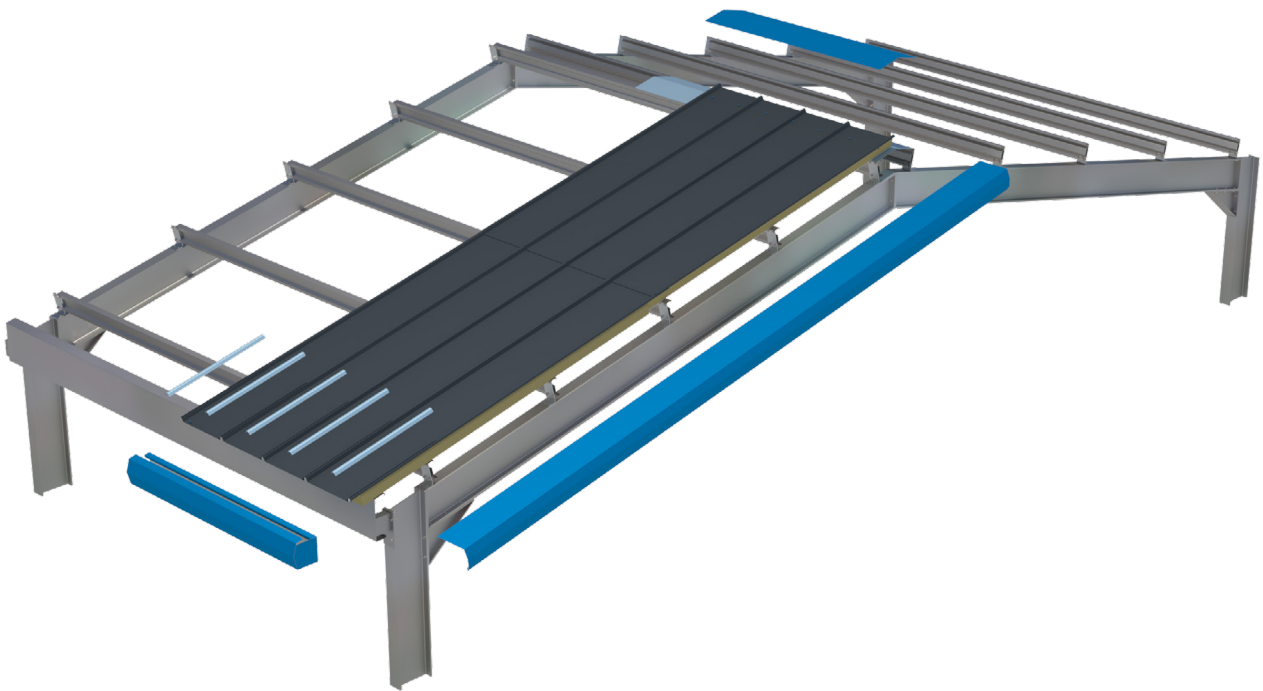
Verge detail



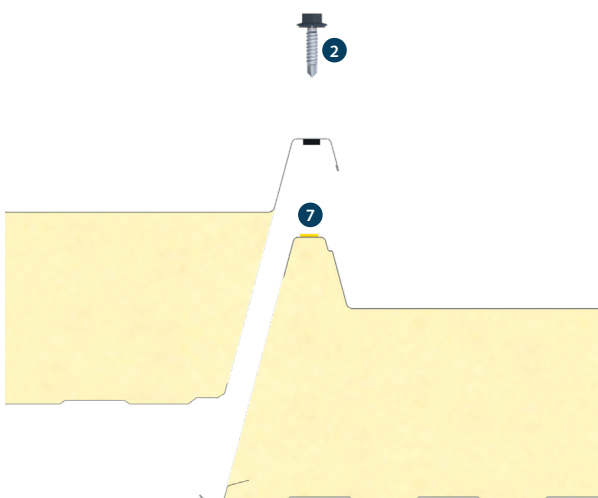
A strip of Butyl tape air sealant 9 mm x 3 mm **5** should be applied between the cleader **6** angle and panels.

JI Vieo Roof 1050 - Roof application, Step 2

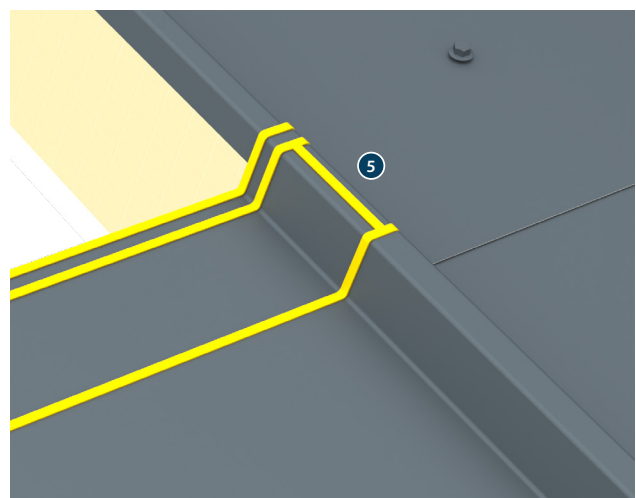
Joris Ide is able to provide the best finishings for your building with a range of products that include sealants, flashings and fixings. Flashings can be ordered with the same coating and colour as the sandwich panels. Stainless steel fixings will provide resistance to the most severe environment. More info on page 12.



Side & End lap

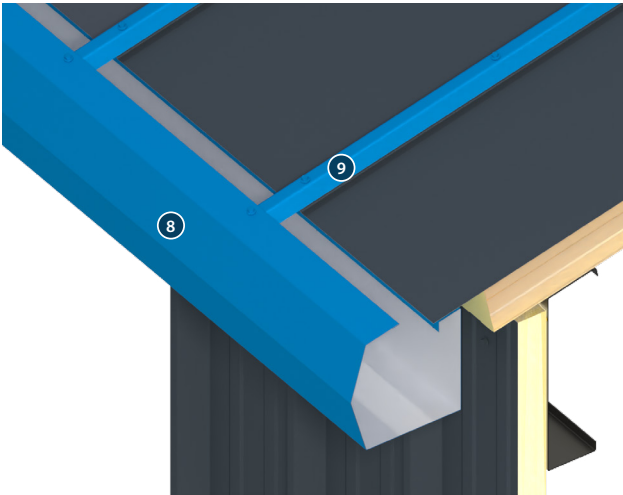


The side lap between panels should be fixed with stitcher screws (2) in the crown at max. 450 mm center. The side lap is protected with a compressible factory applied sealant. It is recommended to use additional gun-grade sealant (site-applied) (7) on coastal sites.

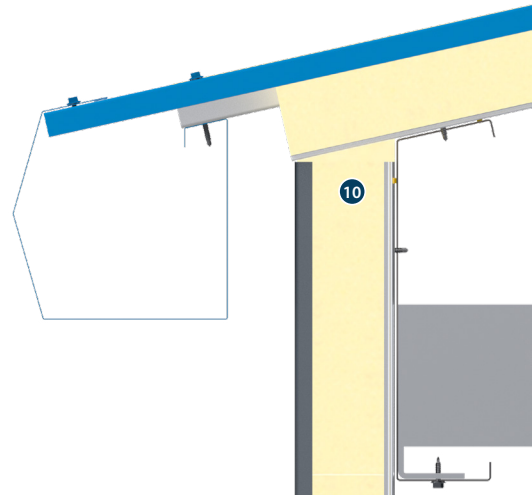


An additional strip of Butyl tape air sealant 9 mm x 3 mm (5) is recommended where the side lap meets the end lap to reinforce the tightness.

External Gutter

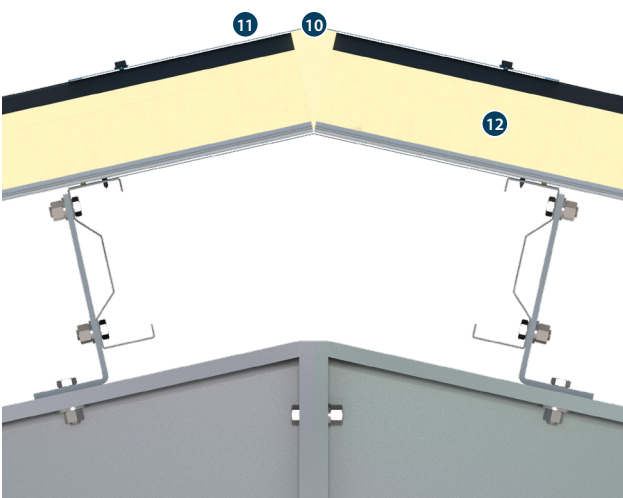


External overhanging gutter **8** supported by support arms **9** fixed to every other crown of panel. A site-applied air sealant **7** must be used between the support arms **9** and the crowns of panels.



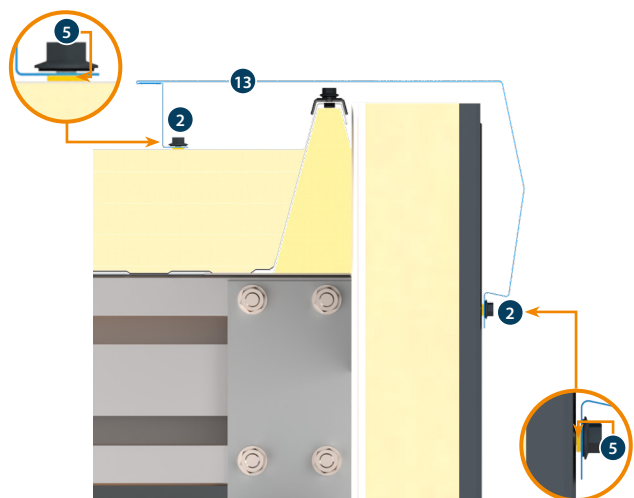
A fire rated site-applied foam insulation **10** must be used to close the corner between wall and roof.

External ridge - Finishings



A ridge flashing **11** sealed with a 9 mm x 3 mm butyl air sealant **5** or gun-grade butyl sealant **7** to cover the ridge. A profiled foam filler **12** needs to be used at 80-100 mm from end. A fire rated site-applied foam insulation **10** must be applied to fill the ridge.

Verge detail - Finishings



The verge flashing **13** should cover the verge from eaves to ridge and should be fixed with stitching screws at every 450 mm **2** and protected with 9 mm x 3 mm butyl air sealant **5**.

Accessories

Fasteners

Light steel section fasteners

Steel Purlin Thickness	Panel thickness (mm)	A2 Stainless Steel Fasteners	Carbon Steel Fasteners	A2 / Carbon
1,2 - 3,2 mm		Crown fixing ¹⁴	Crown fixing ¹⁴	Stitchers ²
	40	BM-CPLS115-S19-COL	CPLS115-S19-COL	(BM) ST22-S16-COL
	100	BM-CPLS180-S19-COL	CPLS175-S19-COL	
	130	BM-CPLS240-S19-COL	CPLS240-S19-COL	

² and ¹⁴ are the references presented on construction details

Heavy steel section fasteners

Steel Purlin Thickness	Panel thickness (mm)	A2 Stainless Steel Fasteners	Carbon Steel Fasteners	A2 / Carbon
4,0 - 12,5 mm		Crown fixing ¹⁴	Crown fixing ¹⁴	Stitchers ²
	40	BM-CPHS125-S19-COL	CPHS125-S19-COL	(BM) ST22-S16-COL
	100	BM-CPHS190-S19-COL	CPHS185-S19-COL	
	130	BM-CPHS190-S19-COL	CPHS245-S19-COL	

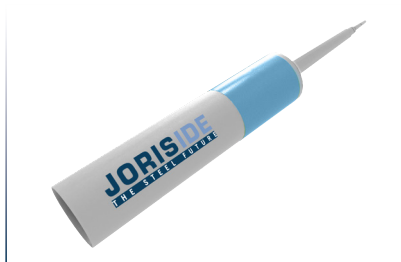
² and ¹⁴ are the references presented on construction details

Sealants



Butyl tape air sealant 9 mm x 3 mm

High quality pressure sensitive butyl sealant
Available in grey - 15 m a roll
(reference ⁵ on construction details)



Gun grade Mastic

High quality blend of rubber, fillers and
polymer in gun-grade form.
(reference ⁷ on construction details)



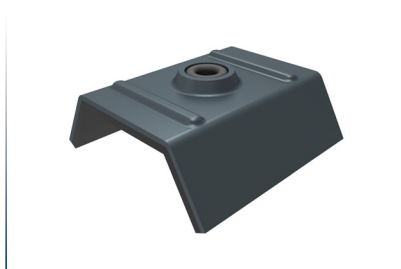
Fire rated foam insulation

High thermal performance insulation applied
on site to reduce energy losses by thermal bridg-
ing. (reference ¹⁰ on construction details)



Profiled foam fillers

High quality Polyurethane fillers to fit the
profile of JI Vieo Roof 1050 at the ridge.
(reference ¹² on construction details)



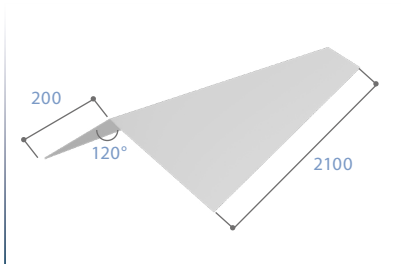
Saddle washer

(reference ¹ on construction details)



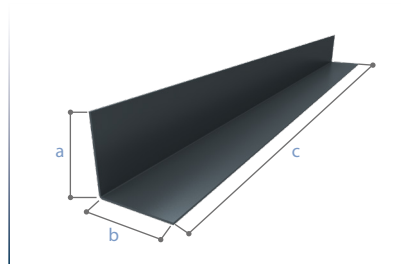
JI Sealant (15 x 4,5mm)

Flashings and others



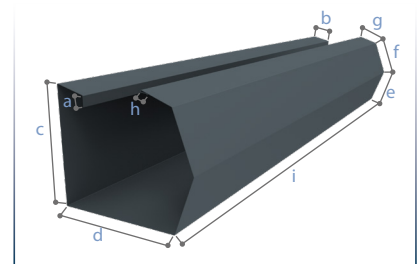
Duopitch ridge internal flashing

Polyester silicone (25μ) RAL 9002
(Option for reference 4 on construction details)



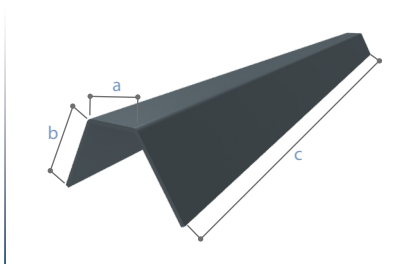
Cleader angle -Structural

Should be part of the structure and provided by others.
(Option for reference 6 on construction details)



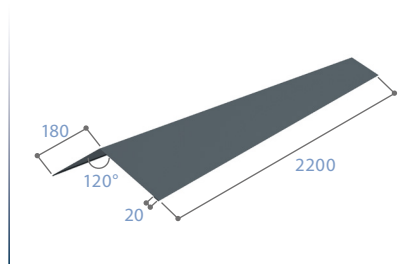
External gutter

Should be part of the structure and provided by others.
(Option for reference 8 on construction details)



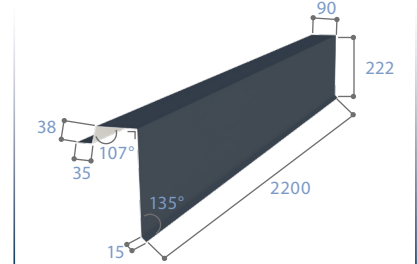
Support arms for gutters

Colour in correspondence with the fixed outside coating of this panel.
(Option for reference 9 on construction details)



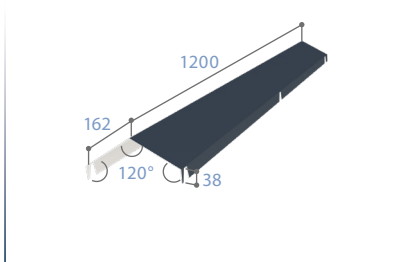
Duopitch ridge external flashing (smooth)

Colour in correspondence with the fixed outside coating of this panel.
(Option for reference 11 on construction details)



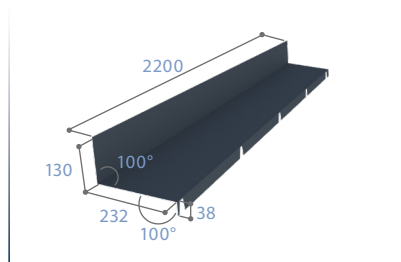
Verge flashing

Colour in correspondence with the fixed outside coating of this panel.
(Option for reference 13 on construction details)



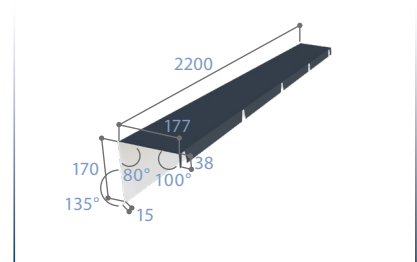
Duopitch ridge tooth.

Colour in correspondence with the fixed outside coating of this panel.
Profile JI 38-525-1050.



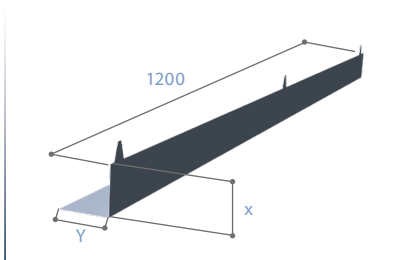
Pent ridge course tooth.

Colour in correspondence with the fixed outside coating of this panel.
Profile JI 38-525-1050.



Ridge course tooth.

Colour in correspondence with the fixed outside coating of this panel.
Profile JI 38-525-1050.



Insulation cover flashing

Colour in correspondence with the fixed outside coating of this panel.
Profile JI 38-525-1050.

All flashings are suitable to be customized.

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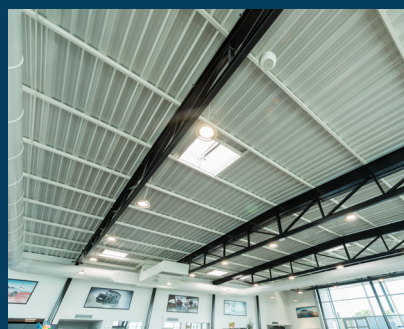
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