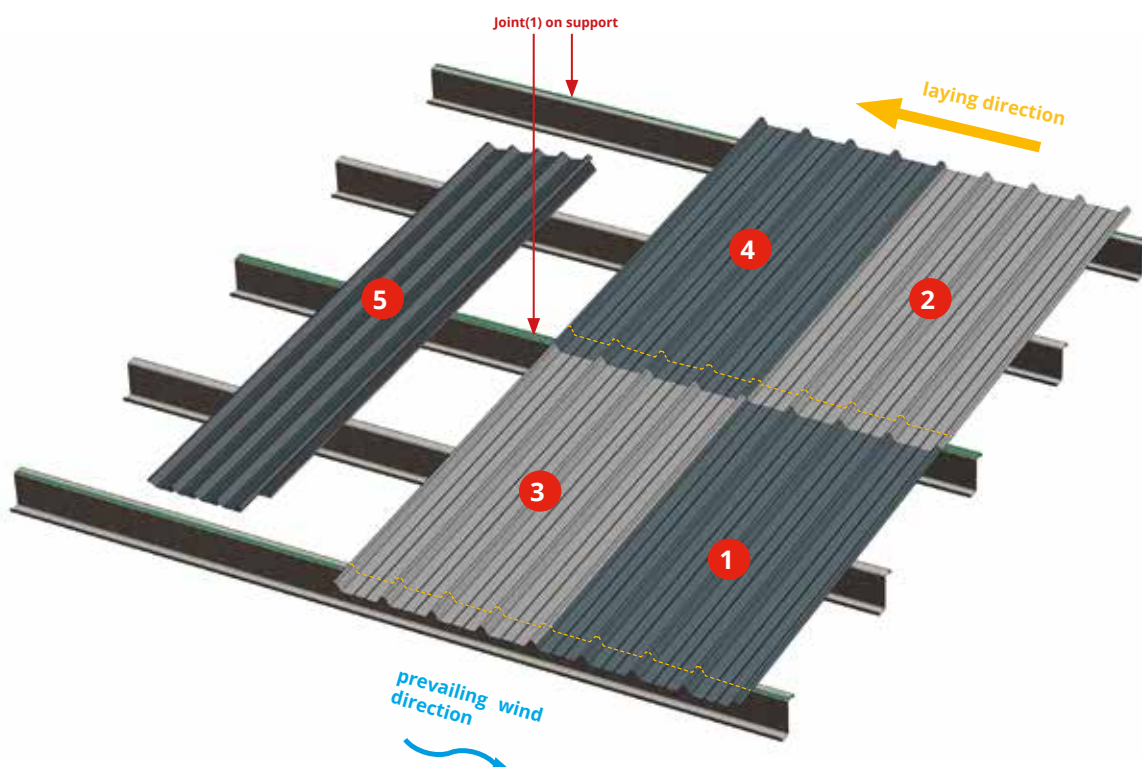
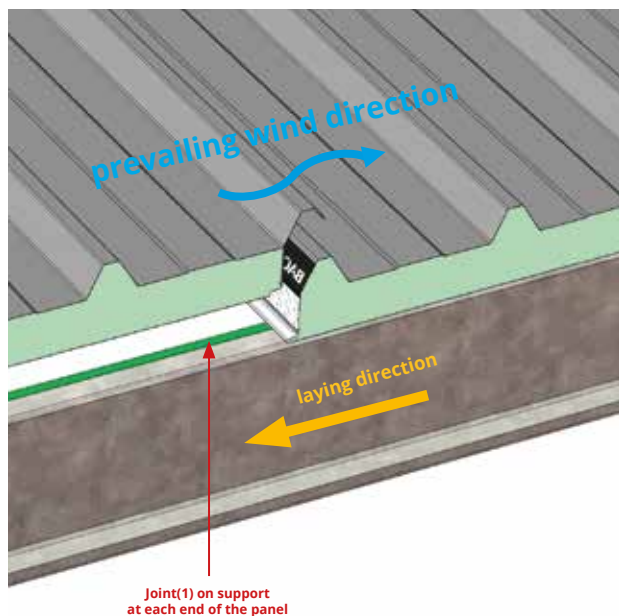


LAYING GUIDELINES AND OVERLAPS

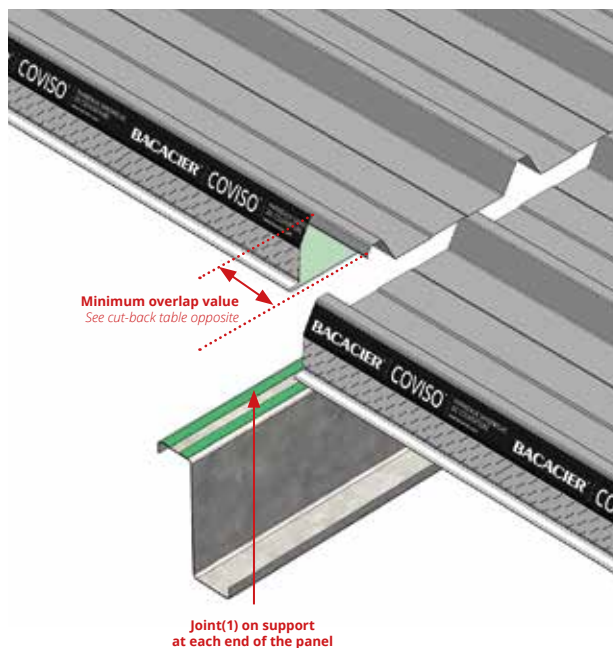


OVERLAPS

SIDE LAP



END LAP



LOW AND MEDIUM HYGROMETRY BUILDING



HIGH HYGROMETRY BUILDING



1 - Joint type: c.f DTA

SLOPE AND CUT BACK

CONVERSION TABLE: SLOPE/DEGREES (°) <-> PERCENTAGE (%)

Degree	3°	4°	6°	8°	10°	12°	14°	16°	18°
%	5%	7%	10%	14%	18%	21%	25%	29%	32%

Degree	20°	22°	24°	26°	28°	30°	32°	34°	36°
%	36%	40%	44%	49%	53%	58%	62%	67%	73%



MINIMUM VALUES TO ADOPT FOR COVISO SANDWICH PANEL SLOPES

Configuration of the cladding	Climatic zones and situations and altitude ≤ 900 mm – Please refer to the “Environmental effects” chapter				
	Zone 1		Zone 2		Zone 3
	Climatic situation		Climatic situations		All situations
	Protected or normal	Exposed	Protected or normal	Exposed	
Simultaneously: - No penetrations - No translucent panels - Panels length equal to the slope	5 % ⁽¹⁾	5 % ⁽¹⁾	5 % ⁽¹⁾	5 % ⁽¹⁾	5 % ⁽¹⁾
Other cases	7%	10% ⁽²⁾	7%	10% ⁽²⁾	H ≤ 500 m: 10% (2) 500<H ≤900 m: 15 % ⁽²⁾

(1) For roof slopes less than 7%, a sealing strip must be applied across the end lap of the sandwich panels
(2) If the roofing does not include polymer translucent ribbed sheets and has penetrations or transversal joints on the sandwich panels, the minimum slope may be reduced to 7% using end and side sealing strips

MAXIMUM HEIGHT AND LENGTH

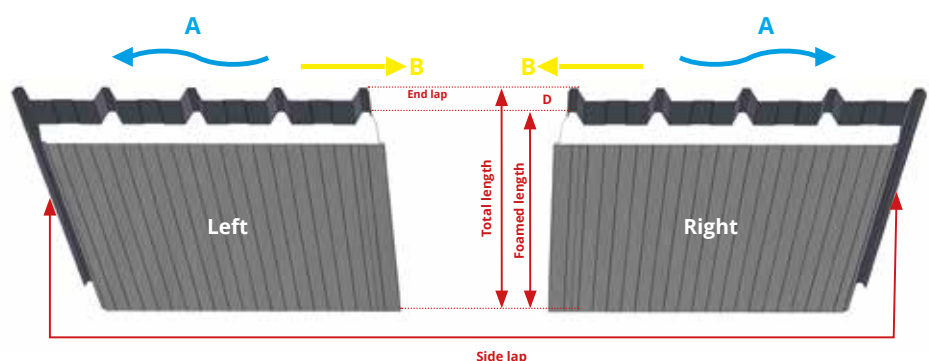
Maximum slope length: **40 m**
Maximum building height: **50 m**

CUT BACK

SIDE CUT BACK

Choice of cut back according to:

Direction of prevailing wind (A)
Laying direction (B)



END CUT BACK

MINIMUM CUT BACK (C) ACCORDING TO THE SLOPE AND SEALING STRIP		
Slope (%)	Zone I & Zone II	Zone III
7 ≤ p < 10	200 mm + Sealing strip	200 mm + Sealing strip
10 ≤ p < 15	200 mm minimum	200 mm + Sealing strip
p ≥ 15	150 mm minimum	200 mm minimum

There are different types of cut back - please ask us for further information

FIXINGS

Example of a roof for a building with ridge height < 10 m
(Zone I, unexposed site)

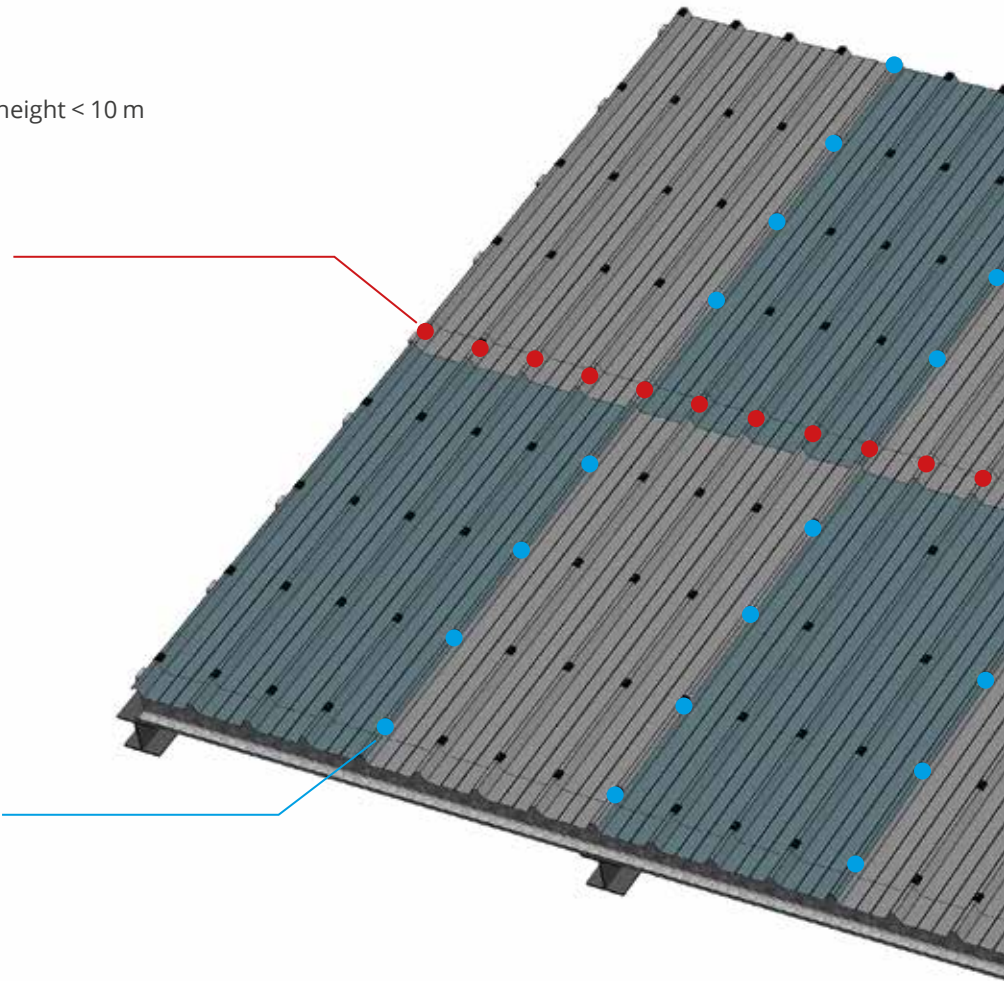
END LAP

Fixing on each corrugation

The fixings are placed at the top of each rib with a sealing system and must meet the minimum recommendations set out below

SIDE LAP

Fixing on each purlin



ATTACHING THE PANEL



Screw:
Single or double-threaded
Diameter: to be adjusted according to support (see opposite page)

Staple
In steel: thickness 0.75 mm min.
In aluminium : thickness 1.00mm min.

Sealing washer:
Diameter: 18 mm min.
Thickness: 3 mm min.

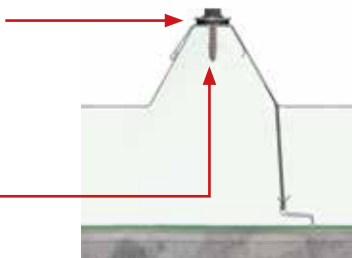
STITCHING SEAMS

Distance S between purlin centres (m)	Maximum space between attachments	
	Slope < 10 %	Slope ≥ 10 %
$S \leq 2 \text{ m}$	$S/2$	S
$2 \text{ m} < S \leq 3.5 \text{ m}$	1 m	$S/2$
$S > 3.5 \text{ m}$	1 m	1 m

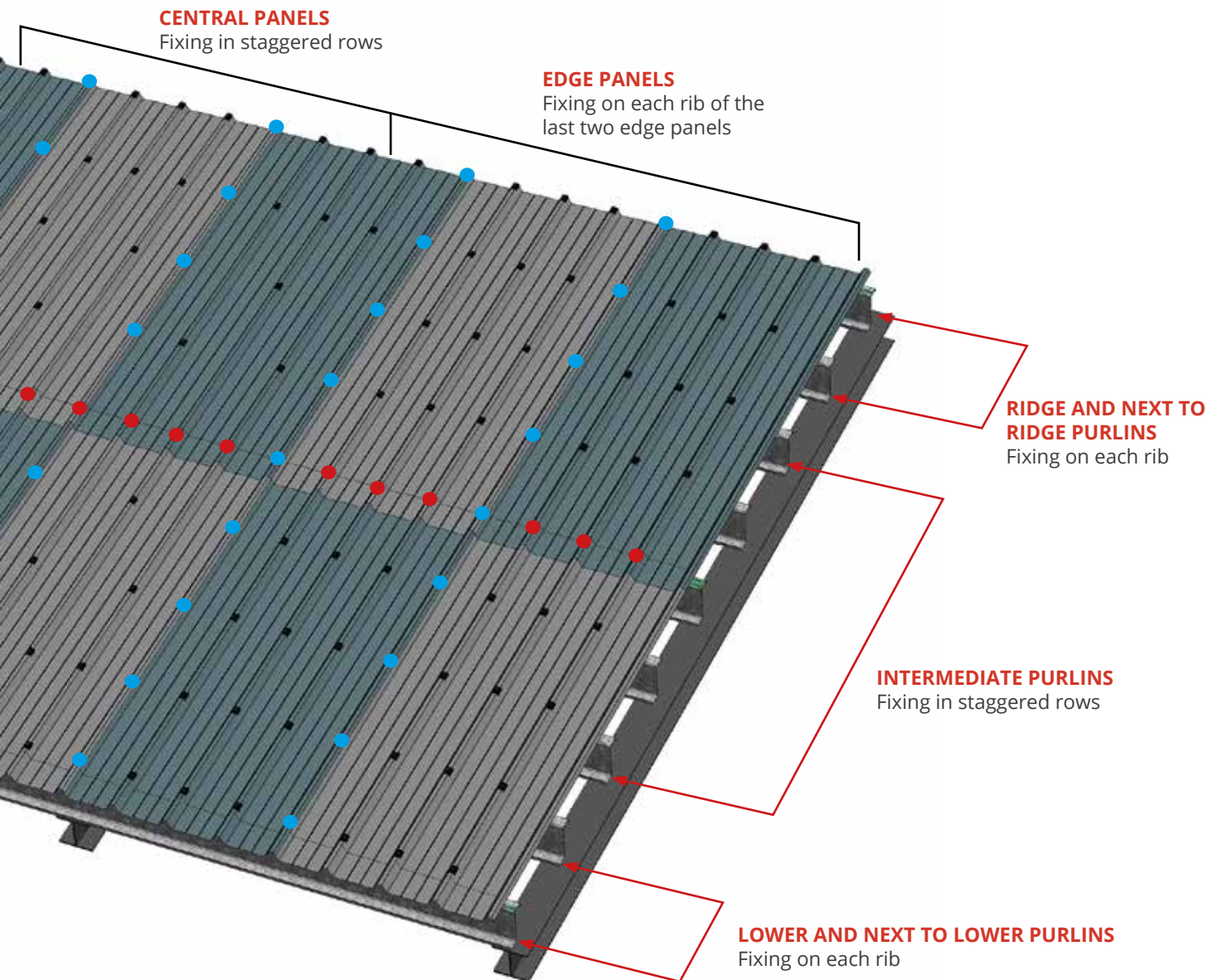
Sealing washer:
Diameter: 19 mm min.
Thickness: 3 mm min.

Screw diameter:
4.8 mm min.

Screw length:
19 mm min.

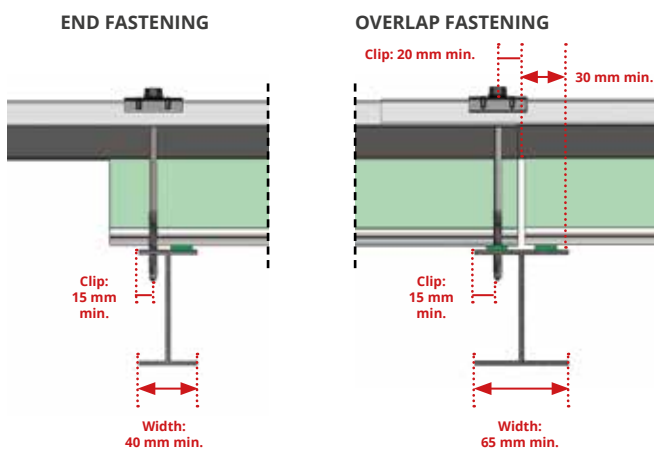


Fixing the ribs to the purlins, at the end lap of the panels is regarded as stitching.



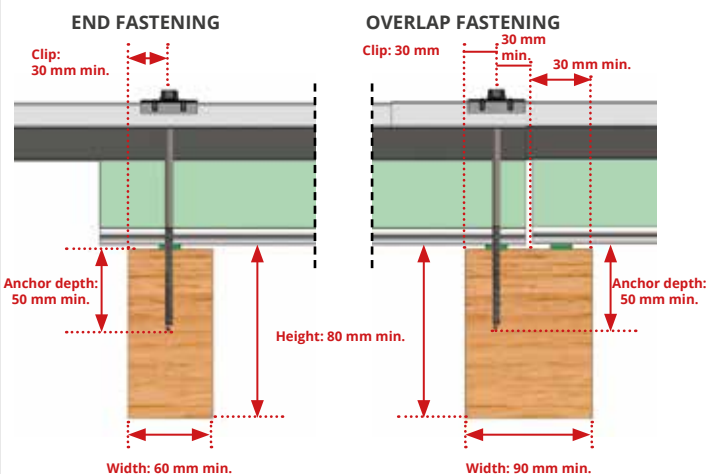
Fixings should be suitable for the type of supports and fixing densities in relation to the applied wind loads

FIXING ON METAL SUPPORT



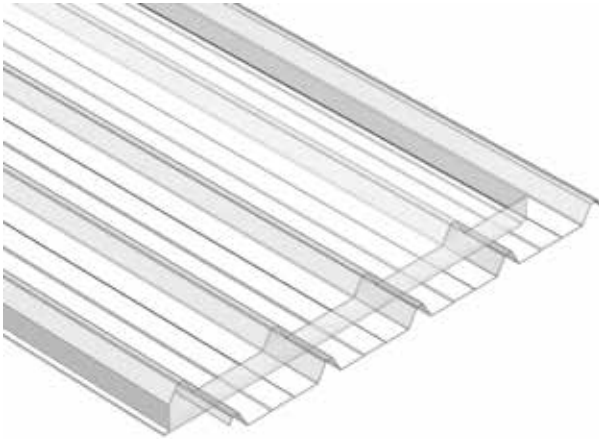
Minimum screw diameter: 5.5 mm

FIXING ON WOODEN SUPPORT



Minimum screw diameter: 6.3 mm
Minimum coach screw diameter: 8 mm

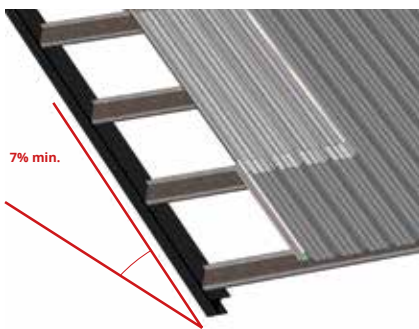
TRANSLUCENT PANELS



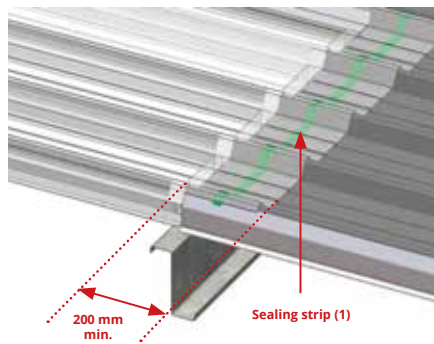
Translucent panels consist of a lower and upper panel made from polyester or polycarbonate.

These panels offer natural light transmittance while also providing thermal insulation.

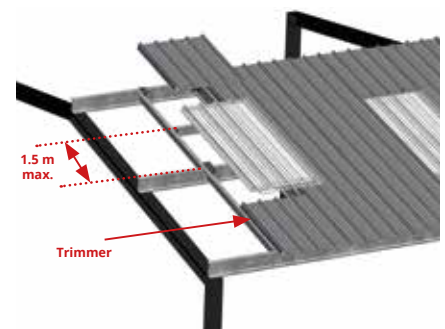
FITTING INSTRUCTIONS



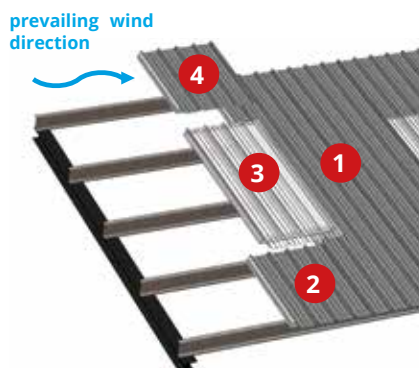
Minimum slope: 7%



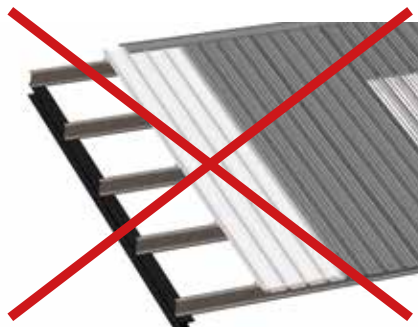
Overlap: 200 mm minimum + sealing strip



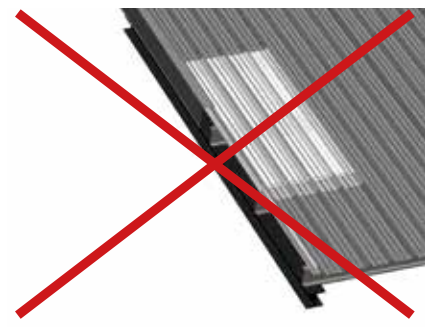
Span \leq 1.50 m
Use a trimmer if necessary



Fixing by fencing



Ridge not be fixed to the gutter

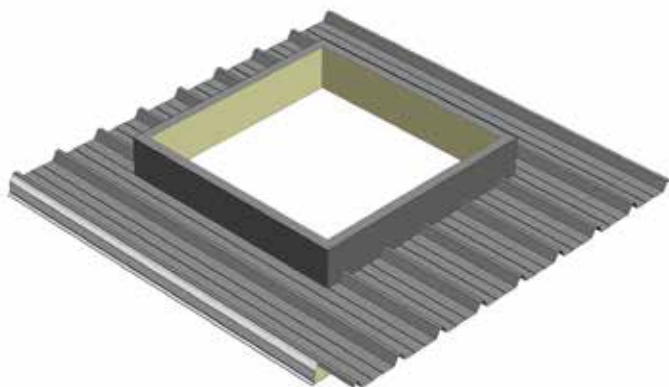


Must not be fixed to roof edge

Translucent panels may expand and have maximum lengths of 6m.

(1) The type of joint, number and installation depends on the local environment and circumstances.

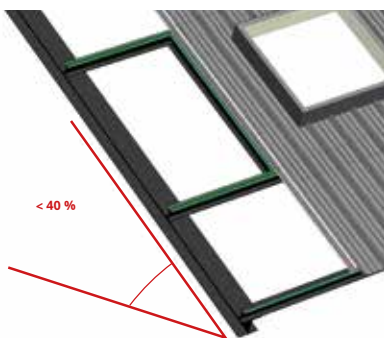
INSULATED BASE PLATES



Insulated base plates for roof sandwich panels are made from fibre glass reinforced polyester.

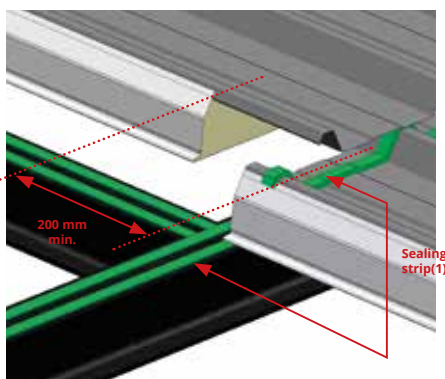
These bases form a support for skylights, smoke extraction vents and roof windows.

FITTING INSTRUCTIONS



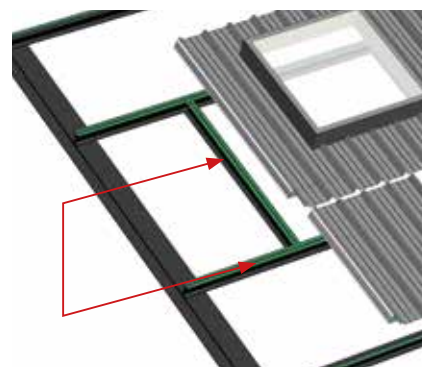
SLOPE

The slope should be between 7 and 40%, depending on the accessory mounted on the base plate



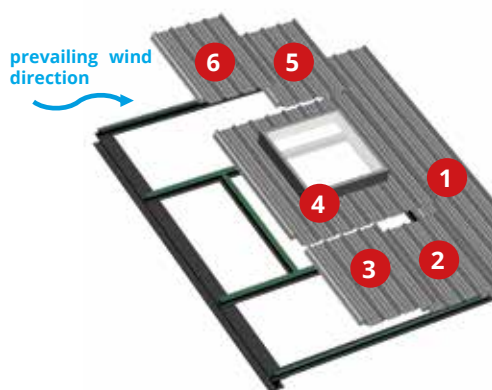
END LAP

200mm minimum with sealing strip and attachment on all ribs

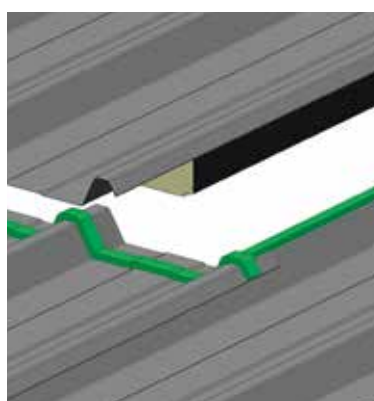


TRIMMER

Compulsory

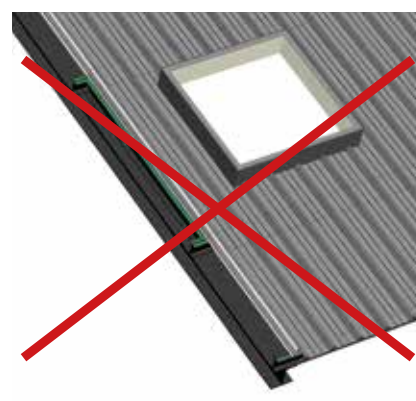


FIXING BY FENCING



SIDE LAP

Sealing strip⁽¹⁾ and stitching every 500mm



FASTENING TO ROOF EDGE

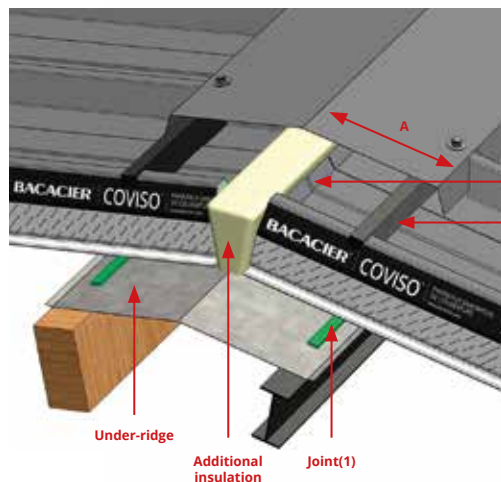
Prohibited

(1) The type of joint, number and installation depends on the local environment and circumstances.

FLASHINGS

DOUBLE TOOTHED RIDGE

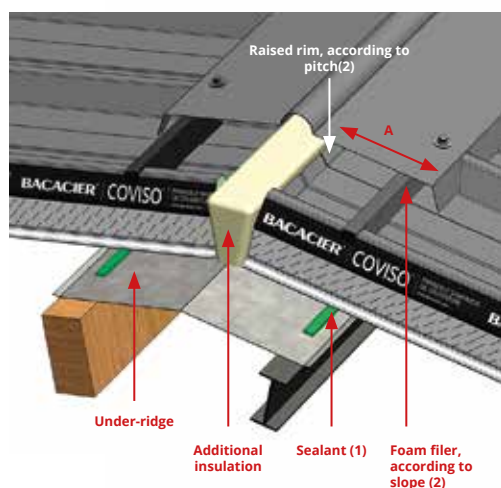
A = 120 MM MINIMUM



Raised rim, according to slope (2)

Foam filler, according to slope (2)

1/2 RIDGE WITH TOOTHED FLANGE



Raised rim, according to pitch(2)

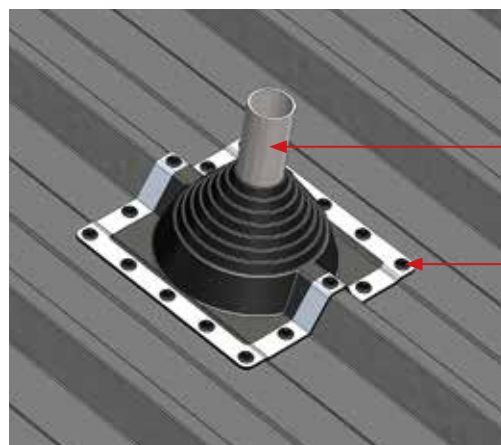
Under-ridge

Additional insulation

Sealant (1)

Foam filler, according to slope (2)

ROOF OUTLET: SEALING SLEEVE



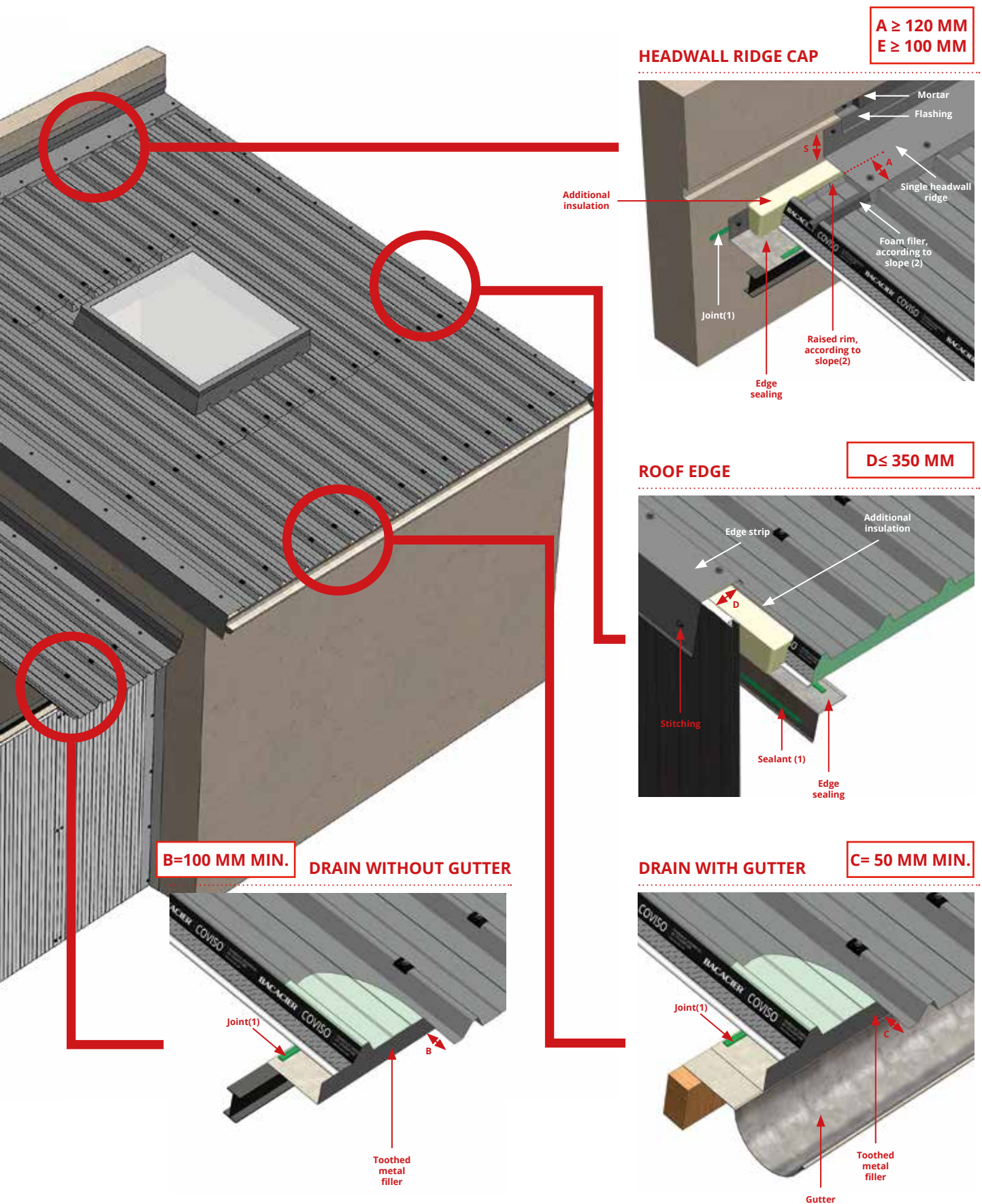
Sealing sleeve

Stitching screw

(1) The type of joint and its installation depends on the roof.

(2) For slopes $\geq 7\%$ and $< 10\%$, provide a raised rim on the external skin

(2) For slopes $\geq 5\%$ and $< 7\%$, provide a raised rim on the external skin + foam filler



For more information, please consult our DTA no. 2/16-1772

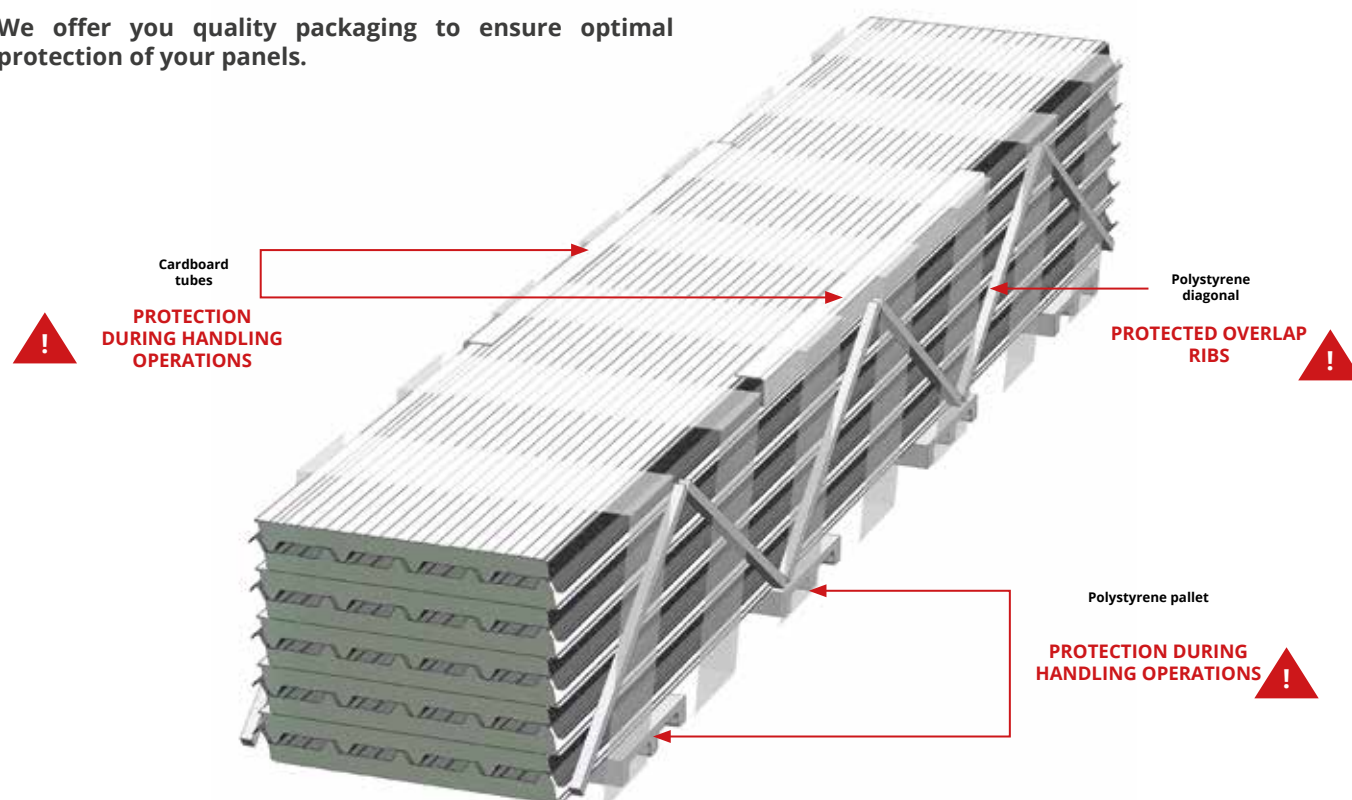
(1) The type of joint and its installation depends on the roof.

(2) For slopes $\geq 7\%$ and $< 10\%$, provide a raised rim on the external skin

(2) For slopes $\geq 5\%$ and $< 7\%$, provide a raised rim on the external skin + foam filler

PACKAGING

We offer you quality packaging to ensure optimal protection of your panels.



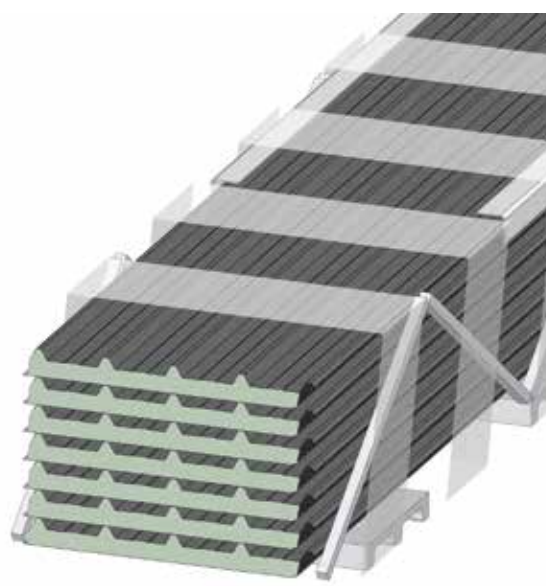
IT IS IMPORTANT TO REMOVE THE PROTECTIVE FILM FROM THE PANELS WITHIN 3 WEEKS OF DELIVERY.

PACKING

COVISO 4.40



STANDARD PACKING

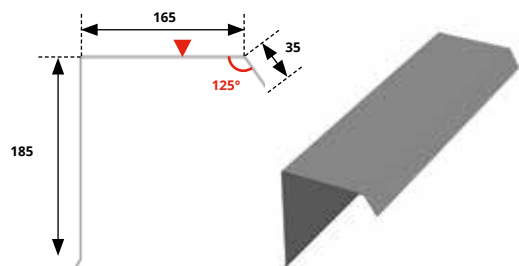


POSITIVE PACKING

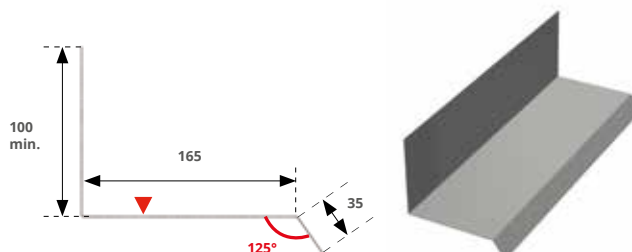
A full range of flashings for your roof to ensure its waterproofing is available and compatible with the COVISO range®

You can also order all your flashings in customised sizes.

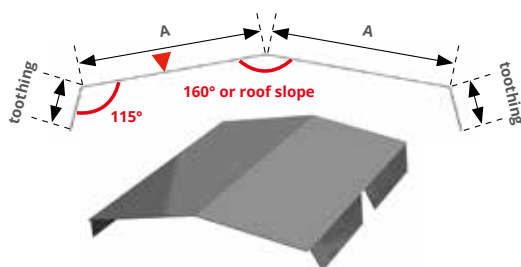
EDGE STRIP - ITEM CODE PLIBR2



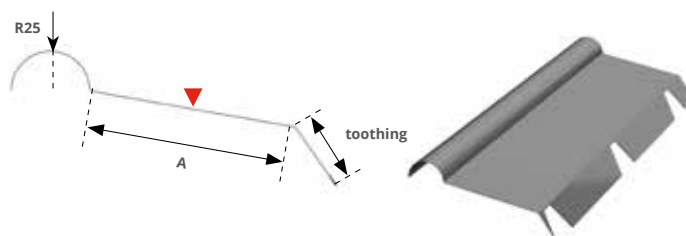
HEADWALL EDGE - ITEM CODE PLIRCM



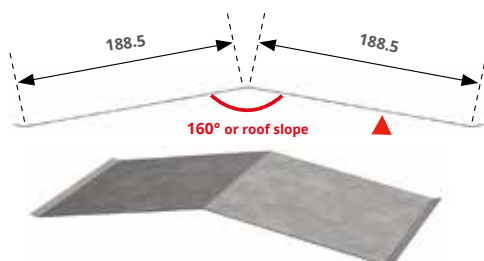
TOOTHED DOUBLE RIDGE - ITEM CODE PLIFDC



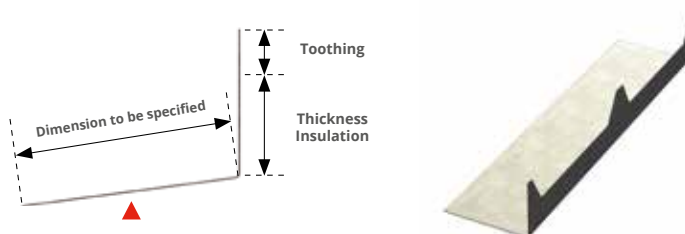
TOOTHED HALF RIDGE - ITEM CODE PLIFABC



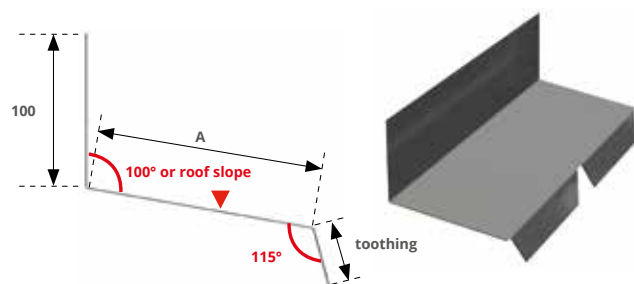
UNDER RIDGE - ITEM CODE PLISF



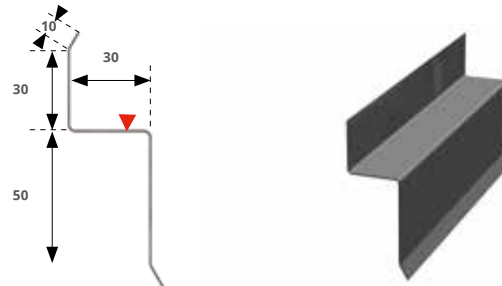
TOOTHED METAL FILLER - ITEM CODE PLICLCO



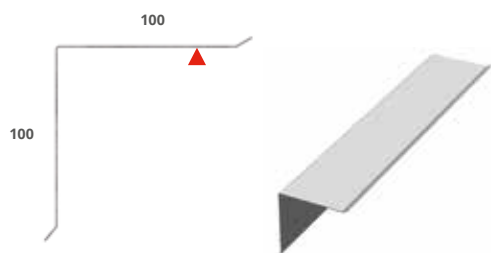
TOOTHED HEADWALL RIDGE - ITEM CODE PLIFCMC440



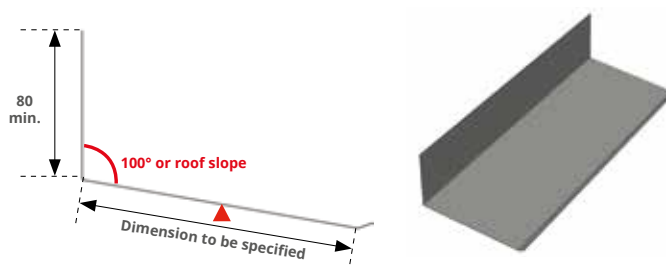
FLASHING - ITEM CODE PLICSOLIN



EDGE COVER - ITEM CODE PLIBR2



HEADWALL RIDGE COVER - ITEM CODE PLICALFS



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