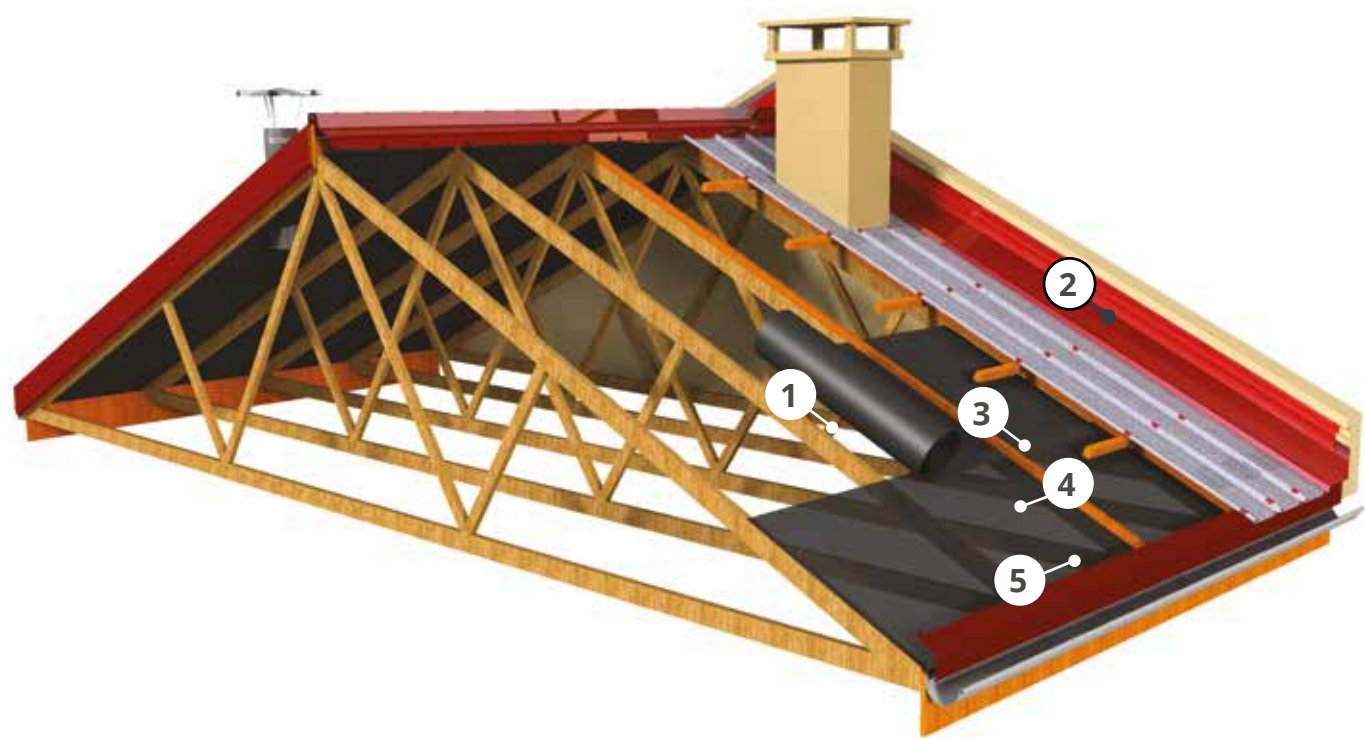


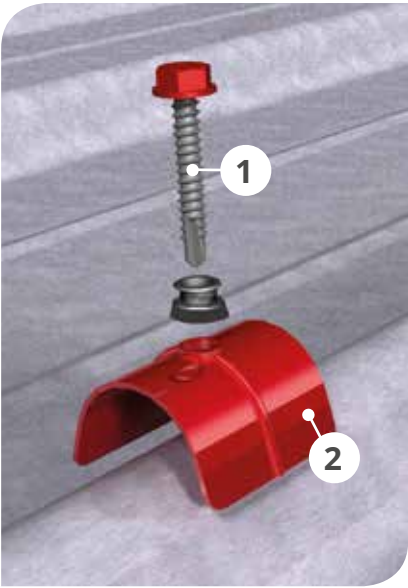
COMPOSITION OF THE SYSTEM



1 - Roof underlay
2 - Masonry wall

3 - Batten
4 - Cross-batten

5 - Lower slope filler



1 - Self-drilling screw

2 - Crown with
with washer





1 - Fixing
2 - Snow guard **1**
3 - Edge flashing

4 - Roofing
5 - Light shaft
6 - Vent duct

7 - Ventilated ridge
8 - Edge strip

(1) NOTE:

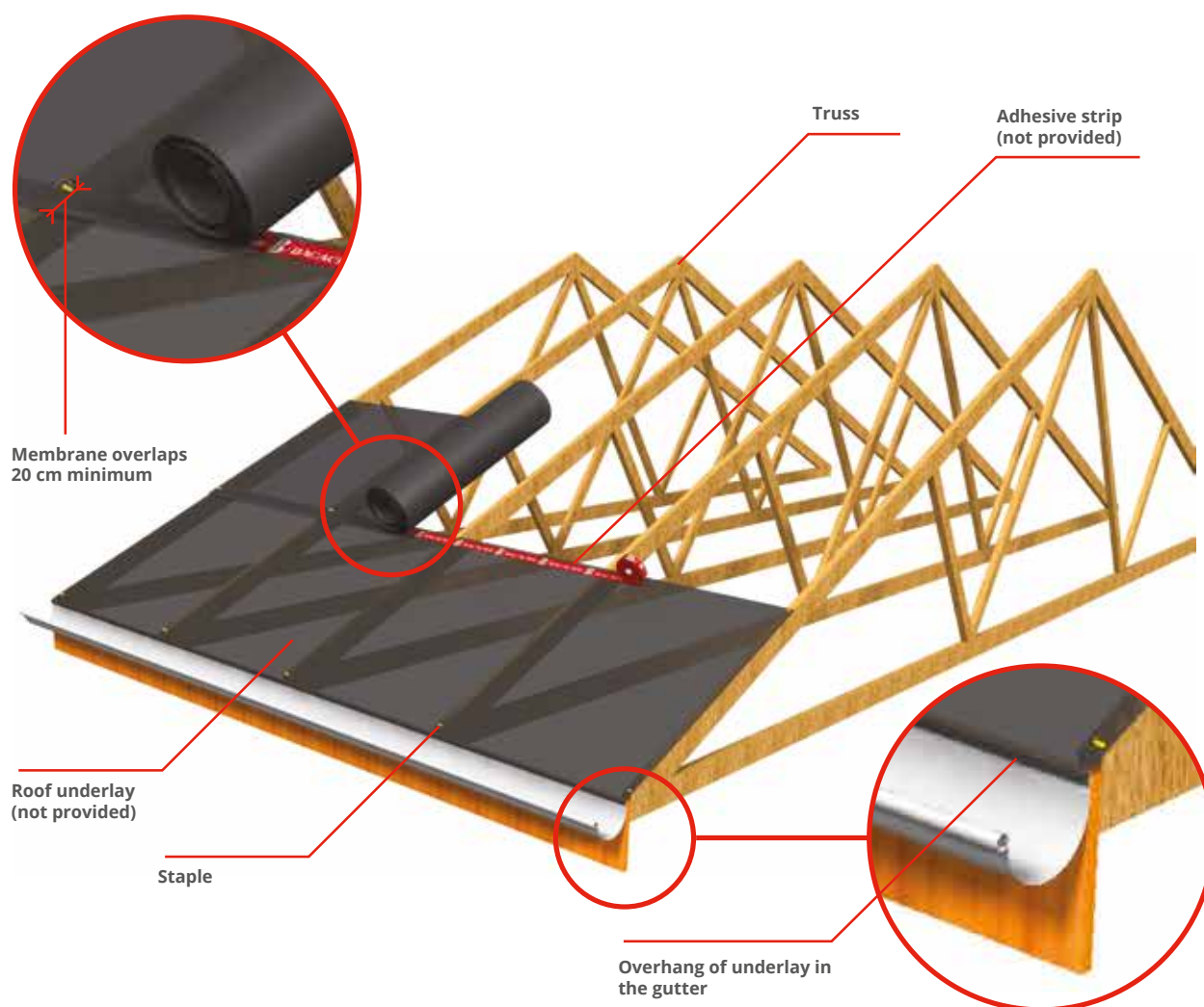
The snow guard is installed across the whole surface area of the roof incline. For readability, only two rows are shown here.

ROOF UNDERLAY

FITTING ROOF UNDERLAY

Whether it's a new roof or a renovation, roof underlay should be used. This is a membrane that lets vapours from the inside pass through to the outside but limits infiltrations in the other direction.

The first stage involves fitting the roof underlay. The underlay is unrolled directly onto the trusses starting at the bottom of the roof slope by stapling them onto the trusses. To ensure optimal continuity between the panels, it is highly recommended to put a double-sided adhesive strip between them.



When installing the first strip, make sure to overhang it in the gutter

CHARACTERISTICS OF ROOF UNDERLAY

The permeability⁽¹⁾ of the material used as roof underlay must not exceed 0.02 g/m².h.mmHg (value given by the manufacturer)

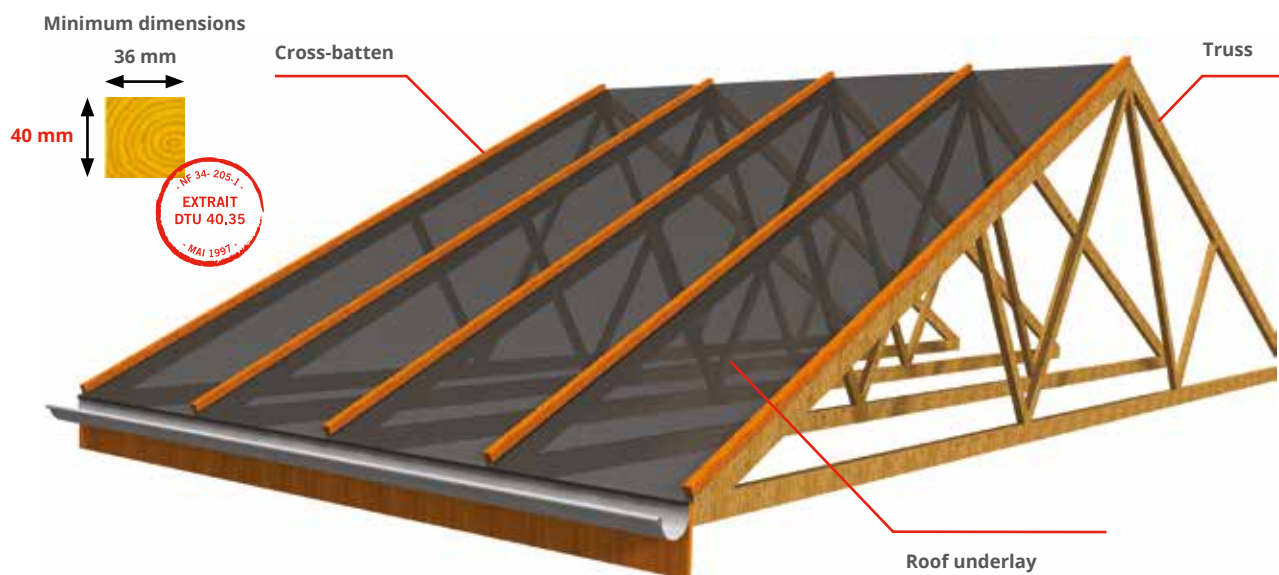
(1) Permeability: the ability of a material to allow water vapour to pass through it.



CROSS-BATTENS

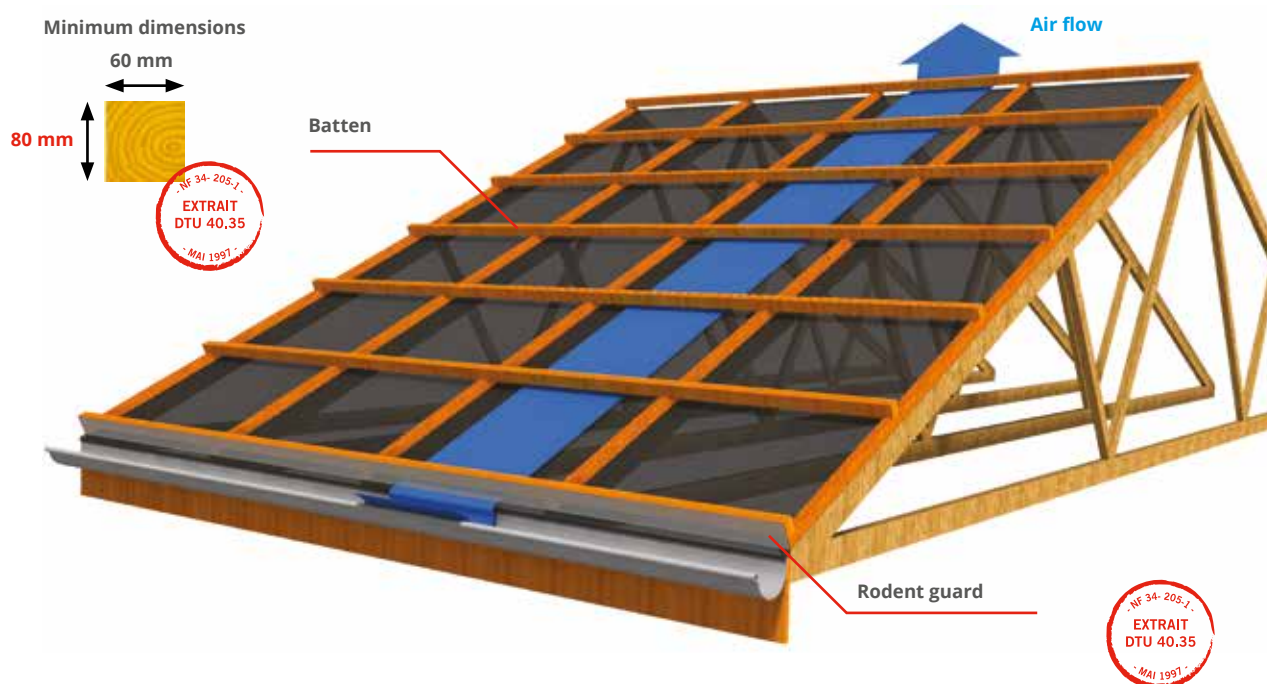
INSTALLING CROSS-BATTENS

The second stage involves fitting the cross-battens which ensure the roof underlay is fixed onto the trusses. The thickness of the cross-batten (40 mm) ensures the height required for good ventilation.



INSTALLING BATTENS

Once the cross-battens have been fitted, the battens are installed. These will serve as mounting brackets for the roofing and fittings.



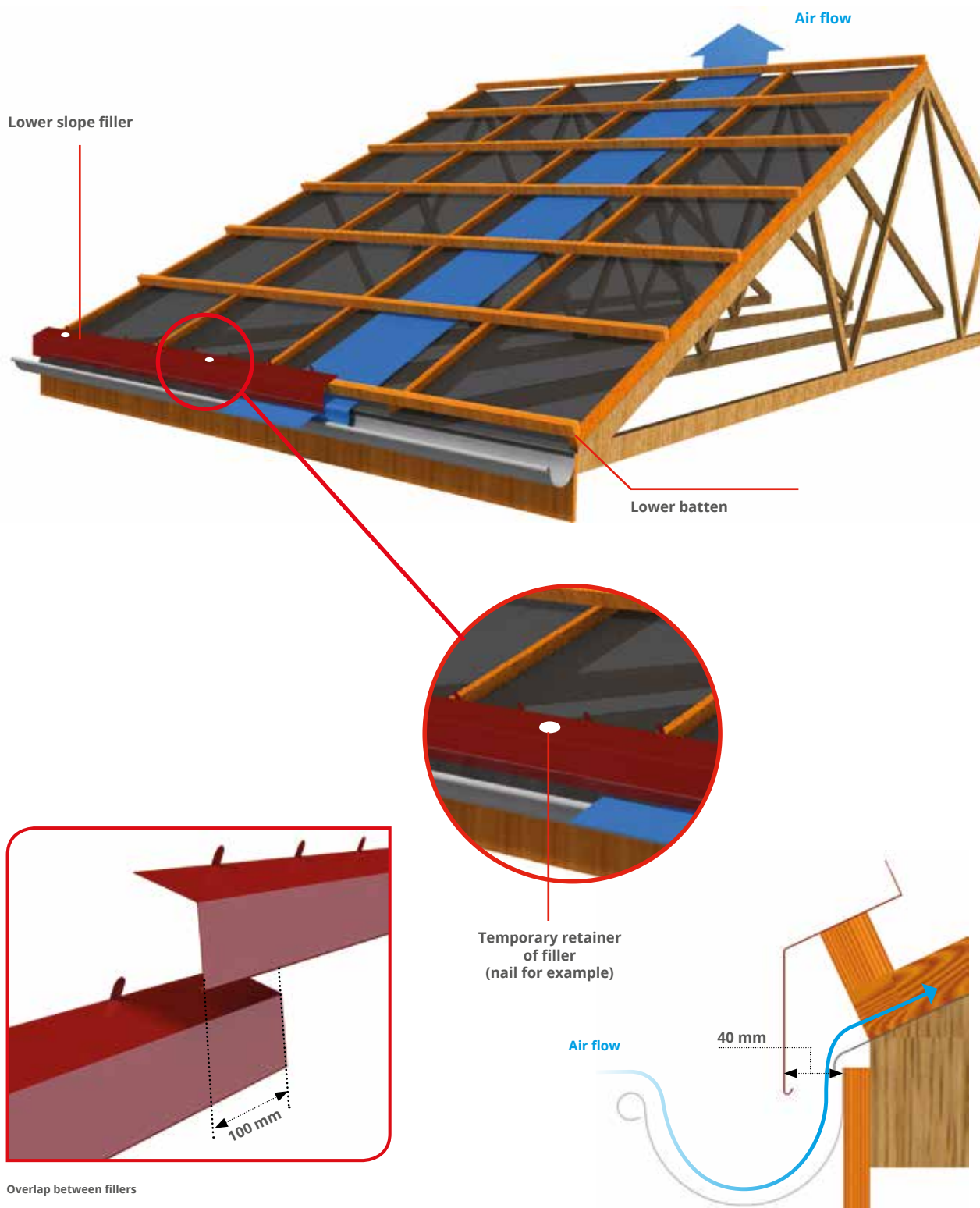
The space created between the upper side of the roof underlay and the inner side of the battens ensures good air flow. Ventilation is ensured by an air space of 40 mm minimum.

EAVES DRIP FLASHING

EAVES DRIP FLASHING

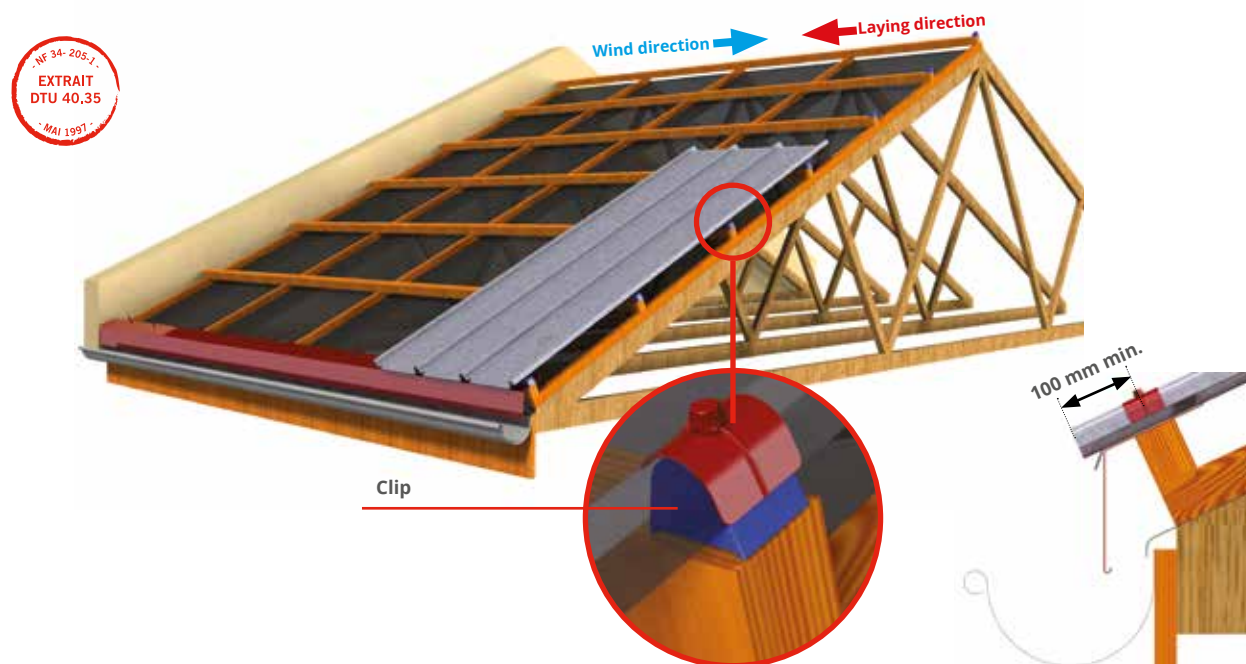
The lower drip edge is positioned on the lower batten.

To temporarily hold it in place, we recommend using two nails at the ends.



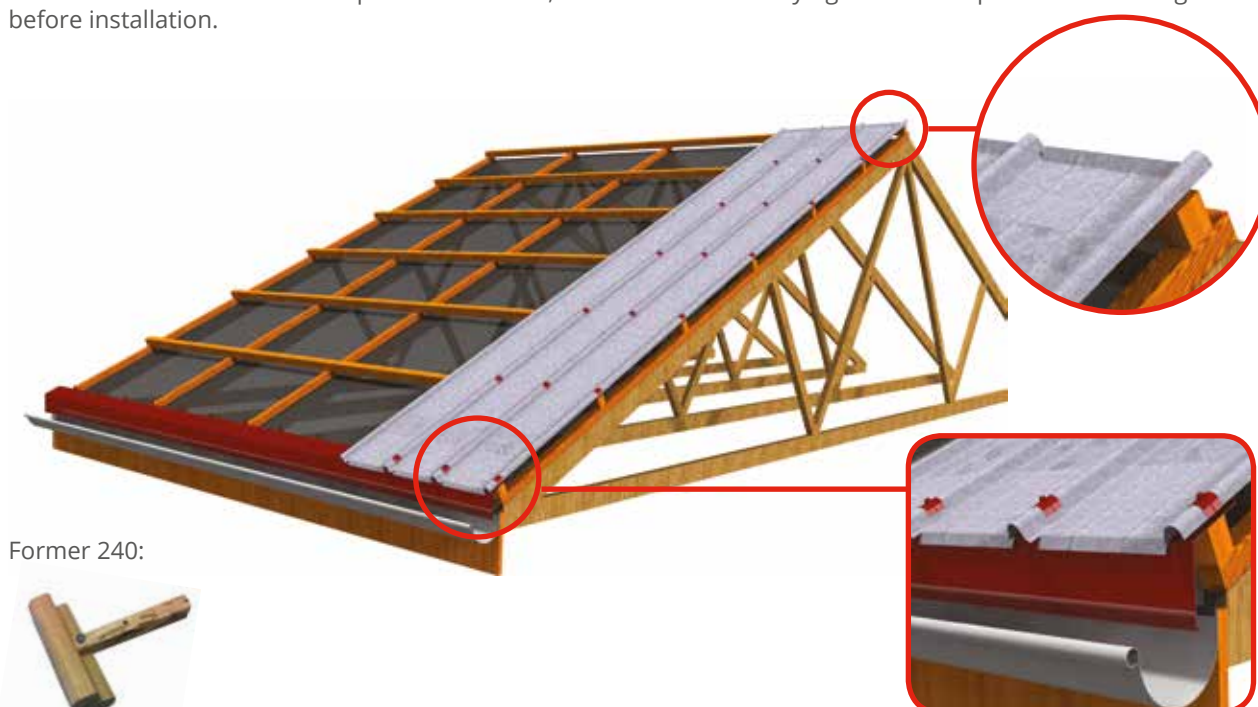
INSTALLING ROOF PROFILES

Roof profiles are installed in the opposite direction of the prevailing wind starting at the bottom of the slope. To avoid crushing the corrugations when fixing on roof edge, plastic clips **must** be used between the roofing and wooden supports.



SPECIFIC POINTS:

Notching up the sheet at the ridge and down at the eave allows rain water to drain into the gutter and prevents surface water to infiltrate. For practical reasons, we recommend carrying out these operations on the ground before installation.

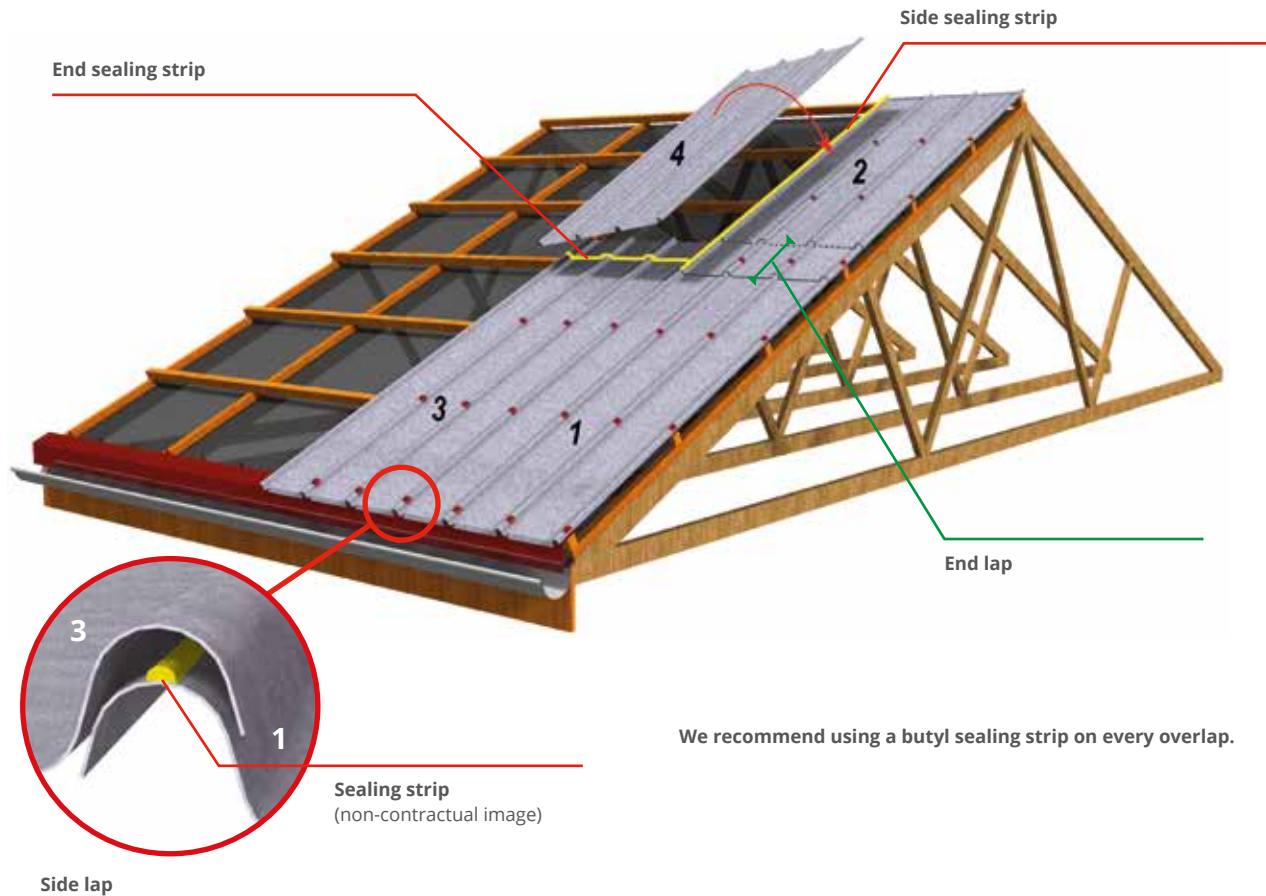


Former 240:



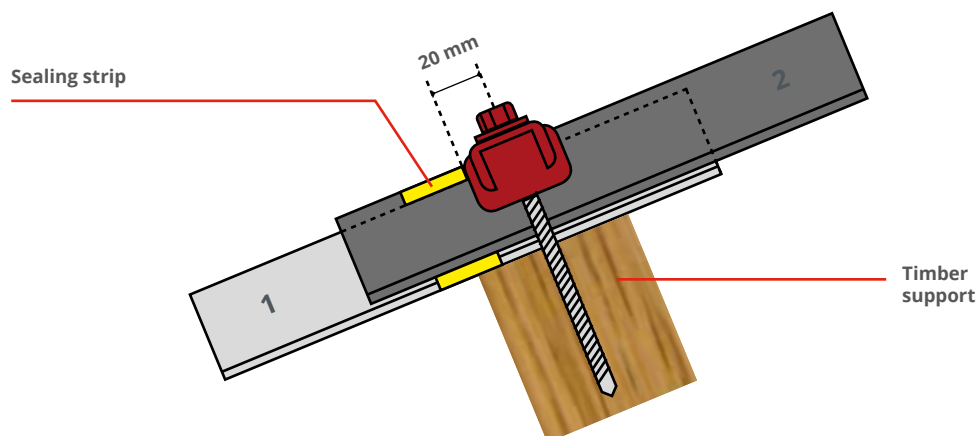
This tool is available in our Landrybac range

Other sheets should be installed in the order indicated below, the overlap values are given in page 160

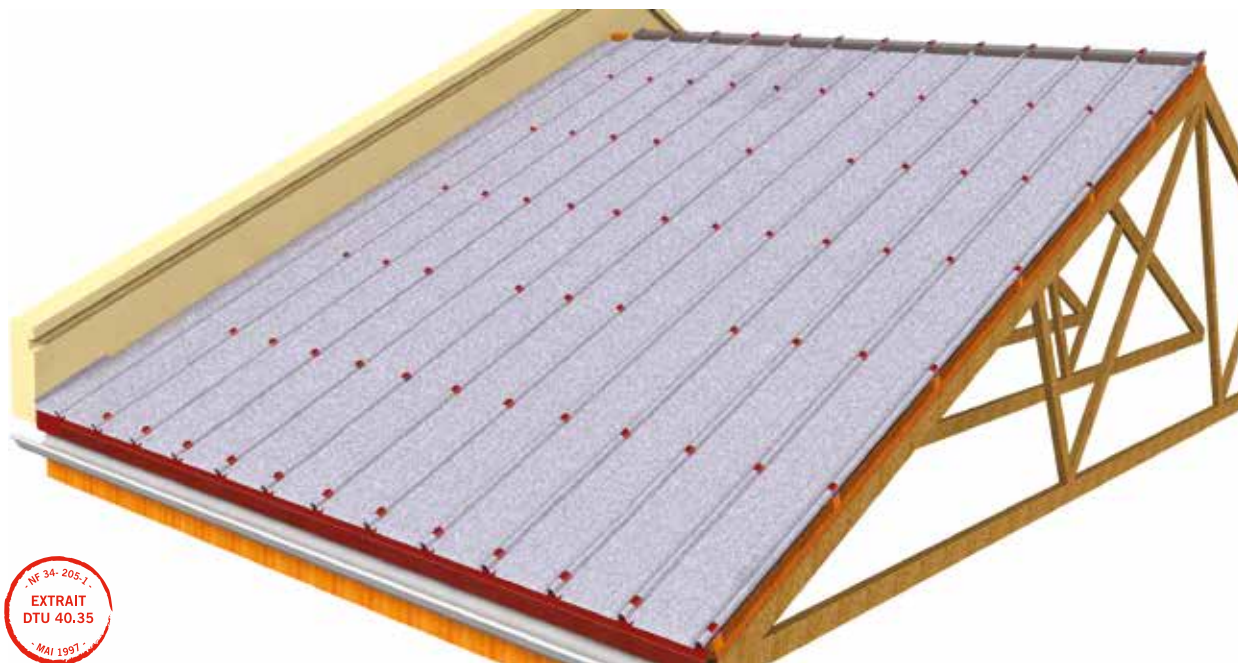


SEALING STRIP

According to standard NF P 30-305, the sealing strips should be laid on a clean and dry surface. The end lap is sealed by placing the sealing strip next to a support approximately 2 cm below the fixing line.



Go to page 213 for more information

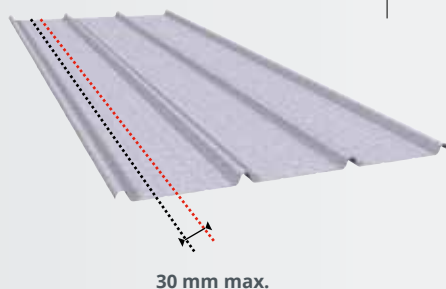


NOTE:

If the last sheet to be laid does not end on a rib, an upstand should be created following the procedure below:

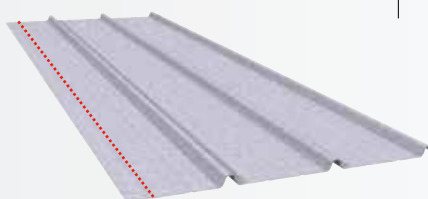
Step 1: Marking of lines

Cut line*
Fold line
30 mm max.

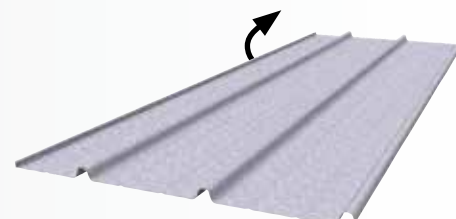


Step 2: Cutting the surplus

Fold line
30 mm max.



Step 3: Folding the upstand






Former 240:





* Cutting the sheet to be done with a nibbler

FASTENINGS

> Fixing roof profiles to the frame: Fixing screw Ø 6.3 mm



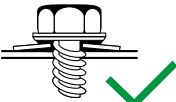

Characteristics	
Min. diameter: 6.3 mm Minimum fixing depth: 50 mm Profile height: 29 mm	 
<p>On a timber support, the roof profile should be fixed to the top of the ribs using self-drilling screws with interposition of a crown and sealing washer.</p>	
Fixings	
<ul style="list-style-type: none"> ● Fixing of every rib on every support: on the edge sheets; on the two upper (ridge) and lower (eave) supports and on every side and end lap. ● Fixing in the mid section : 1 of every 2 ribs and on 1 of every 2 purlins 	 <p>..... see diagram on following page</p>

> Joining roof sheet seams: Stitching screw Ø 4.8 mm

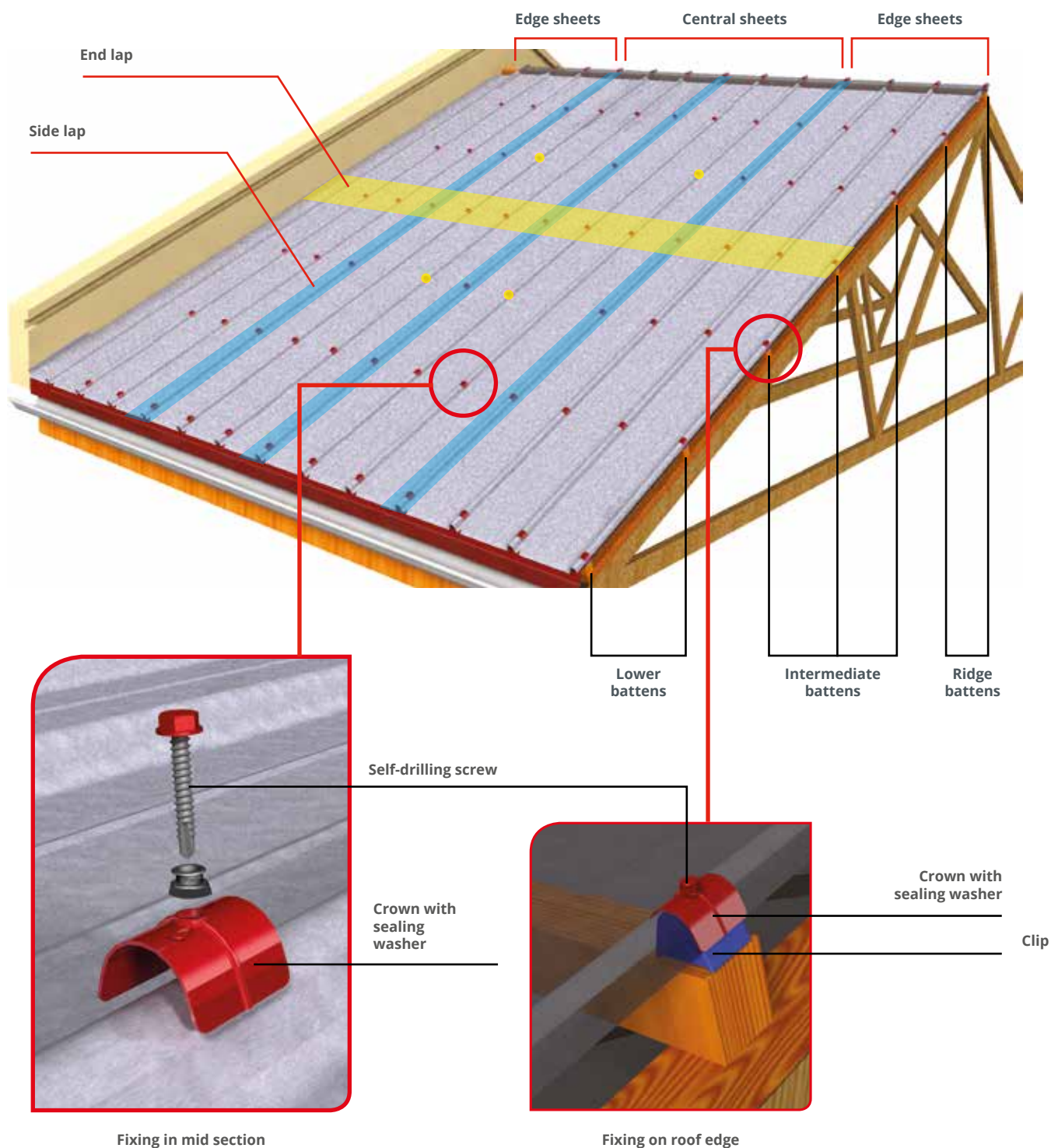
Characteristics	
Minimum screw diameter: 4.8 mm Length: 19 mm	 
Minimum washer diameter: 19 mm Minimum washer thickness: 3 mm	
Minimum sealing washer diameter: 14 mm Minimum sealing washer thickness: 3 mm	
Stitchings	
<p>The stitching screws are fitted straight onto the side laps, they interconnect the roofing sheets. To be fitted if the slope is less than 10 % or in an exposed zone.</p>	

Fixings are supplied in a similar colour of the profile!

> Tightening fixings

Characteristics	
<p>Ensure that the tightening torques are adjusted. A visual inspection allows you to assess the ideal tightening level.</p> <p>Improper fixing adversely affects the mechanical strength, appearance and waterproofing of the profile.</p>	
  	

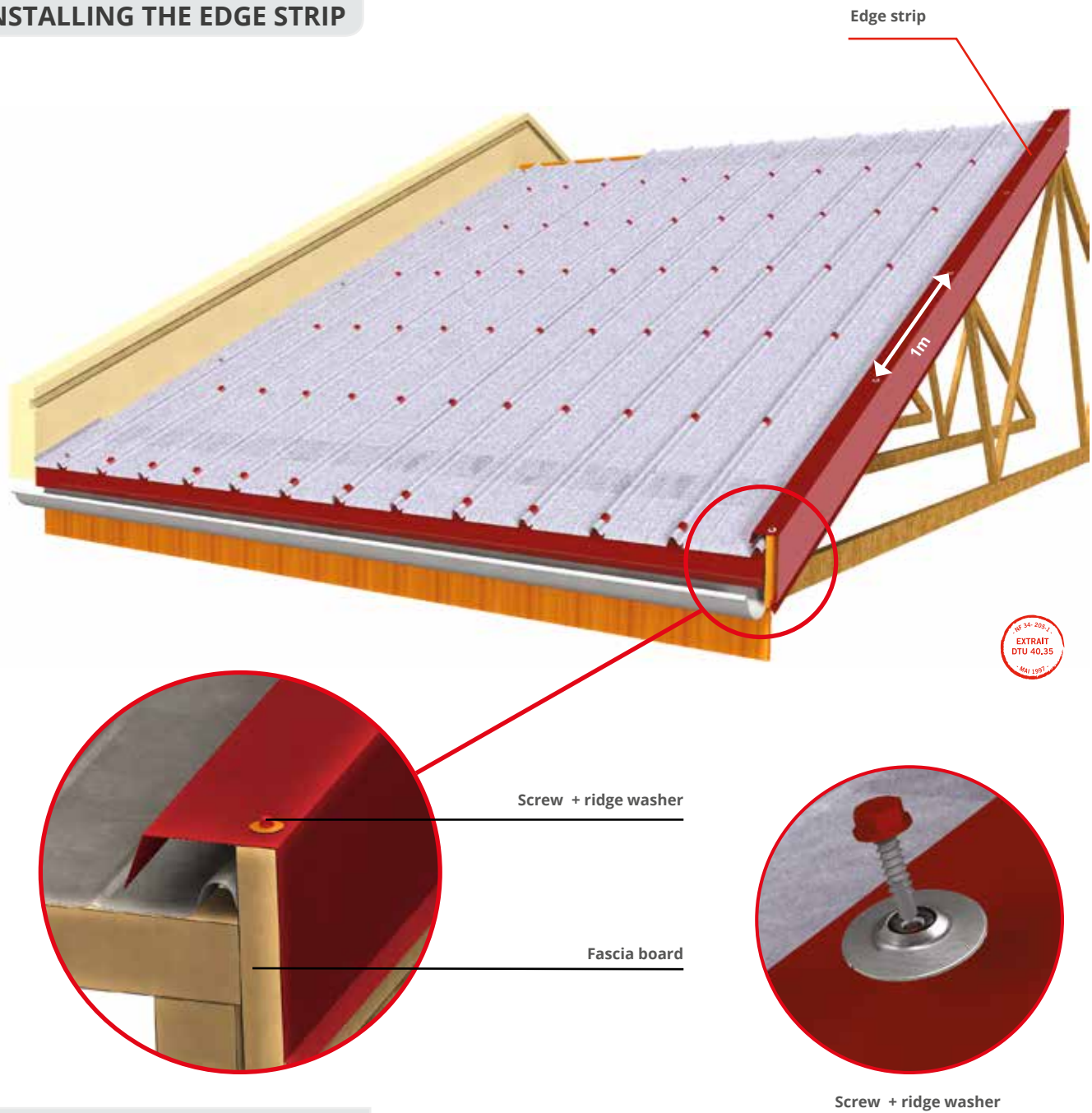
FIXINGS



At the roof edge, it is essential to insert a clip under the roof sheet to ensure the rib is not crushed during fixing.

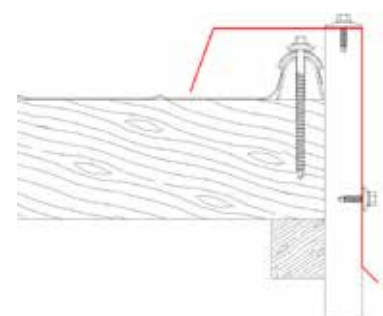
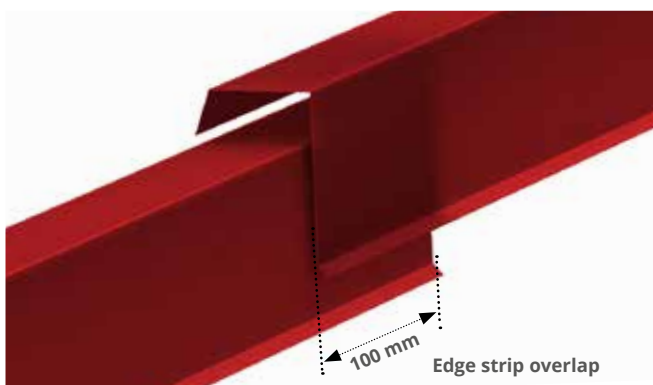
EDGE STRIP

INSTALLING THE EDGE STRIP



INSTALLING THE EDGE STRIP:

Fixings should be evenly spaced along the length of the edge strip with a maximum spacing of 1 m.



Details for Installing the edge strip

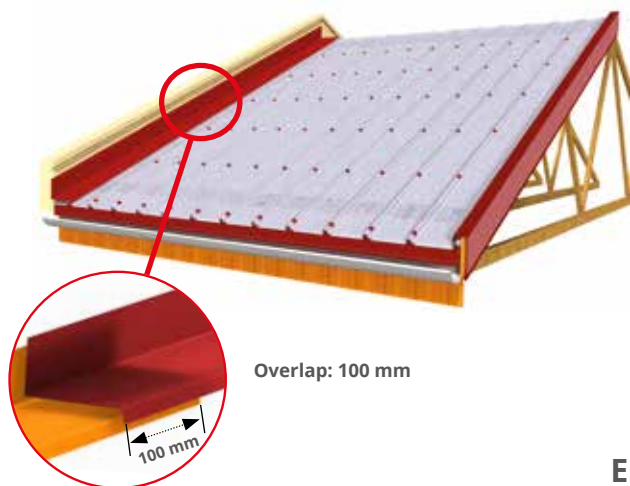
HEADWALL FLASHING

INSTALLING THE FLASHING EDGE

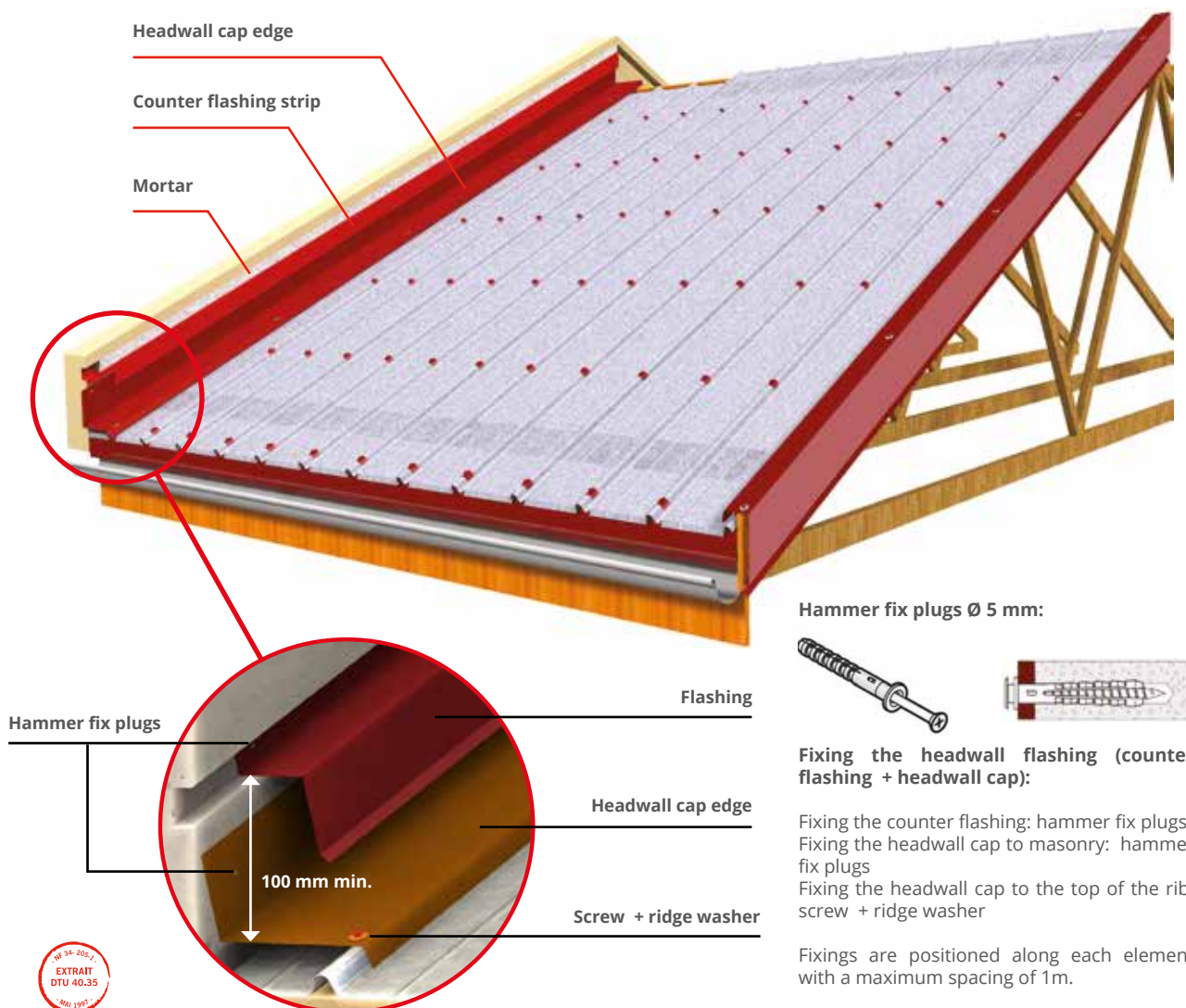
The headwall flashing is composed of two pieces, an headwall cap covered with a counter flashin. It is installed in two stages and requires a slot in the stonework.

Stage 1: Installing the headwall cap

Step 2: Installing the counter flashing strip



End result



Hammer fix plugs Ø 5 mm:



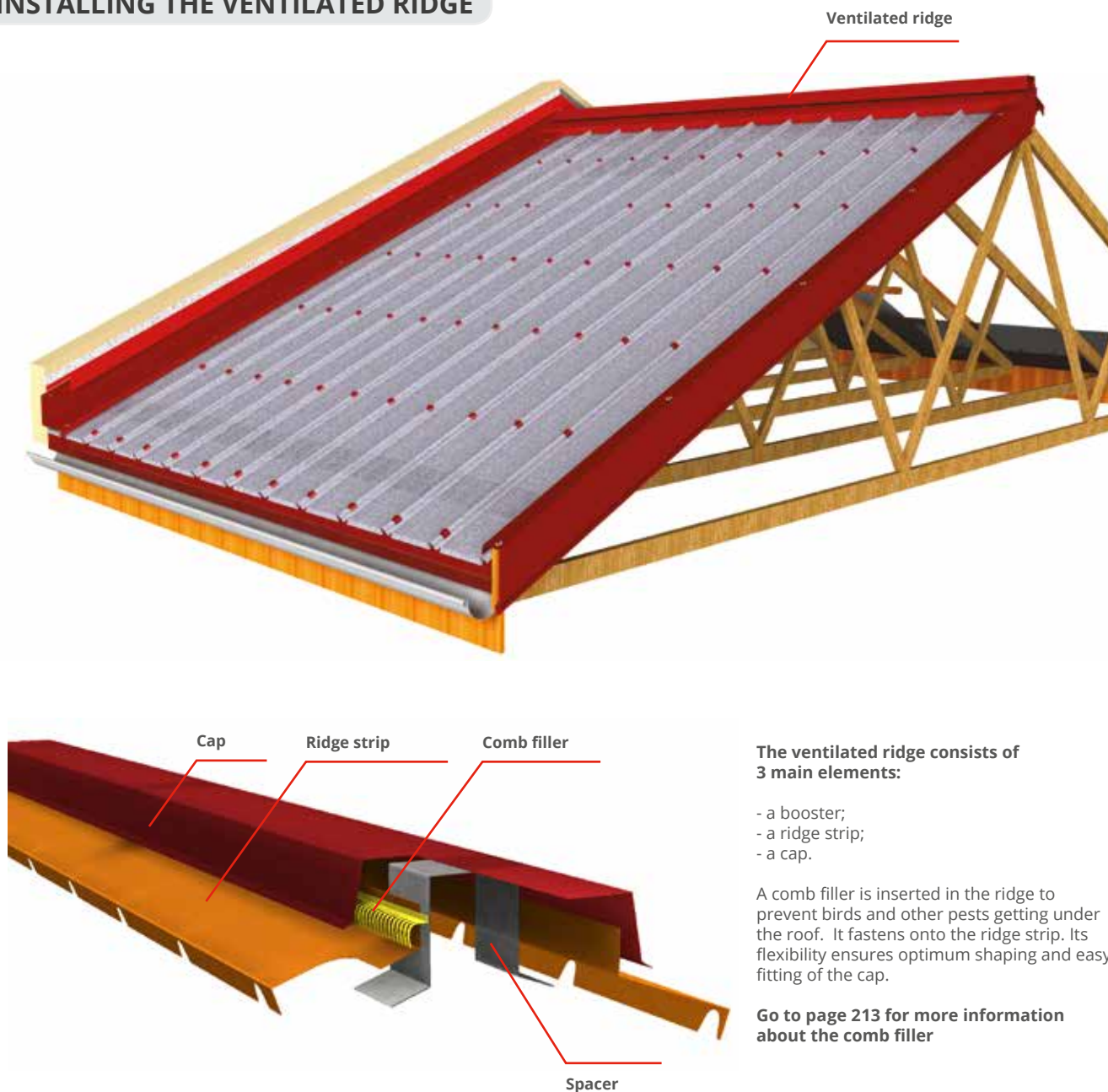
Fixing the headwall flashing (counter flashing + headwall cap):

Fixing the counter flashing: hammer fix plugs
Fixing the headwall cap to masonry: hammer fix plugs
Fixing the headwall cap to the top of the rib: screw + ridge washer

Fixings are positioned along each element with a maximum spacing of 1m.

VENTILATED RIDGE

INSTALLING THE VENTILATED RIDGE



Installation of ventilated ridge:

Stage 1: Determine the lengths, providing the required surplus (100 mm) for the overlaps.

Stage 2: Identify, mark and cut the parts to remove to ensure installation of the assembly on the roof.

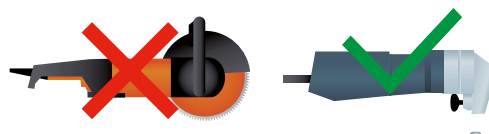
Stage 3: Install and fasten the spacers on the roof profile across the timber supports -maximum spacing between spacers = 1000 mm

Stage 4: Install the ridge strips and comb filler and fasten the assembly on the spacers

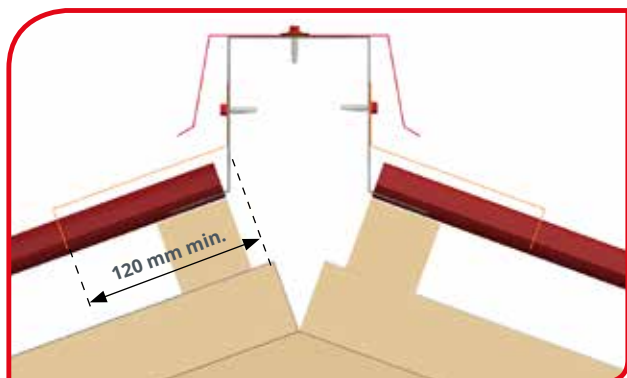
Stage 5: Install and fasten the cap on the spacers, ensure an overlap between caps

To prevent any risk of premature corrosion or degradation of the coating, all the cuts are made using a nibbler.

In order to maintain the manufacturer's guarantee, cutting with a grinding disc is strictly prohibited!



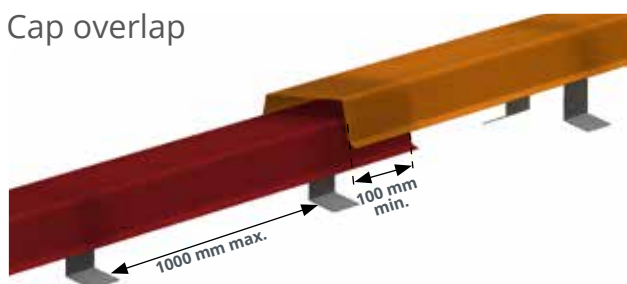
RIDGE OVERLAP AND FIXINGS



Cutting details: ridge - edge



Cap overlap



Fixing the ridge:

Fixing the spacer to the roof profile:
Fixing screw Ø6.3x50 + sealing washer

Fixing the ridge strip to the spacer:
Screw Ø4.8x22 + sealing washer

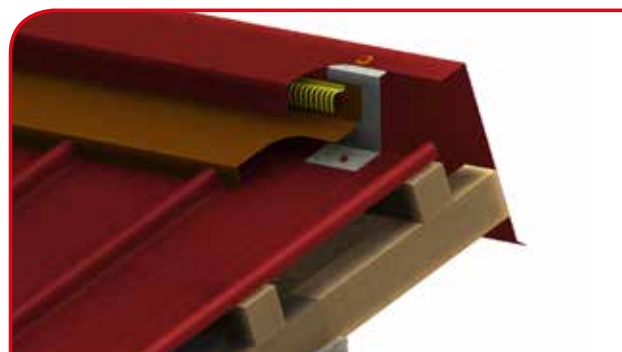
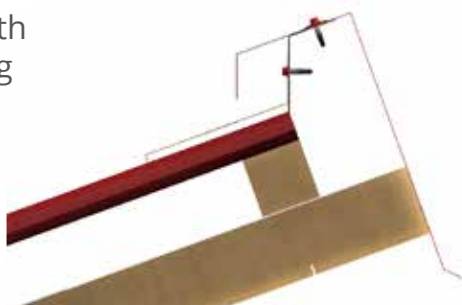
Fixing the cap to the spacer:
Screw Ø4.8x22 + ridge washer --> COMPULSORY

Fixings are placed along the cap across each spacer. Spacing between spacers is 500 mm maximum.

VENTILATED RIDGE FOR SINGLE SLOPE ROOF

Installation of the ventilated ridge for a single slope roof is carried out in the same way as the ventilated ridge described below

Ridge with overhang



Single ridge



OUTLETS AND PENETRATIONS

INSTALLING OUTLETS AND PENETRATIONS

CAUTION:

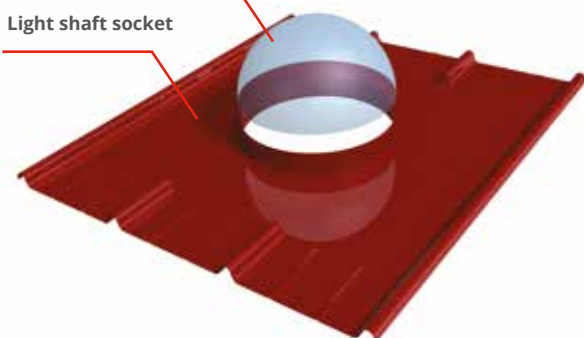
It is compulsory to install a trimmer when fitting a penetration.

The adapted sheets are installed at the same time as the standard roof sheets.

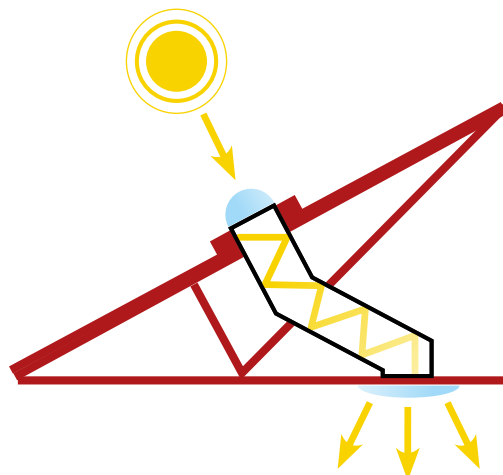
Exception made for the mounting plate, for which an opening needs to be made for the passage of the evacuation pipe in a standard roofing sheet.

Reflector (not provided)

Light shaft socket

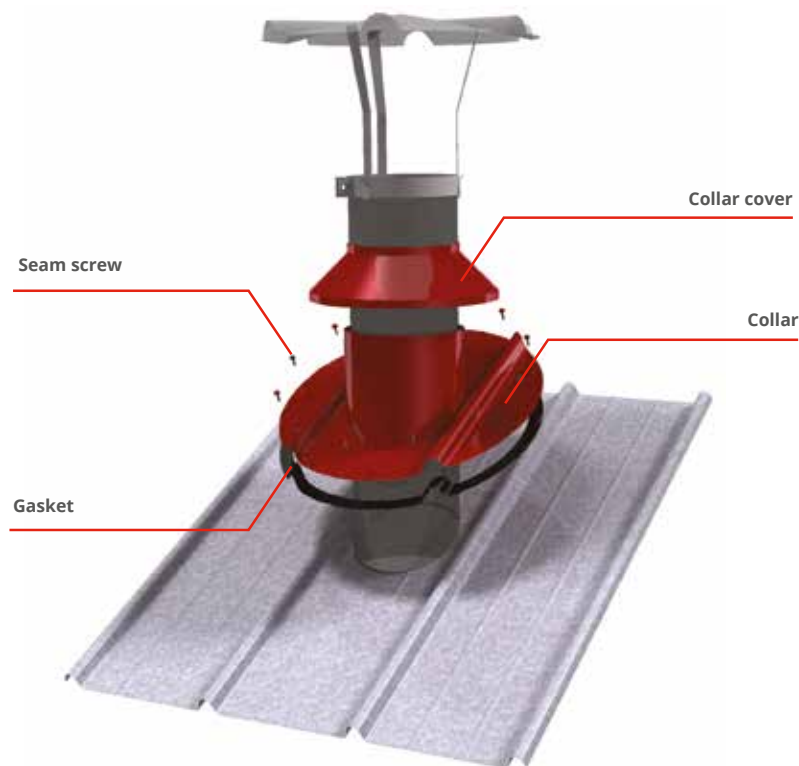


Penetration for skylights



Let the sunlight into your home

- > Very wide adjustment range
- > Suitable for 99% of existing skylights



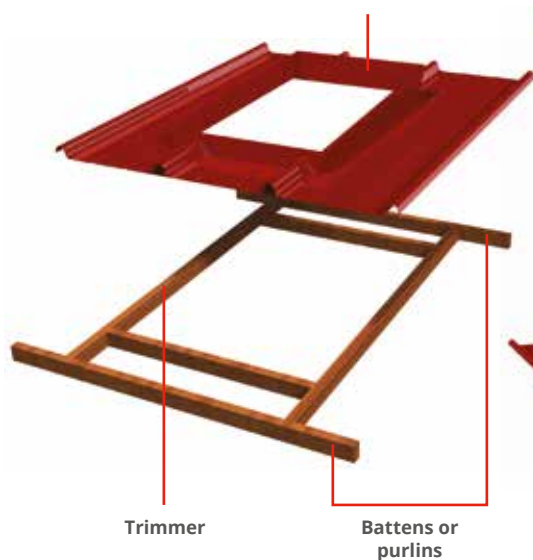
Max. diameter: 250 mm

Outlet for vent duct

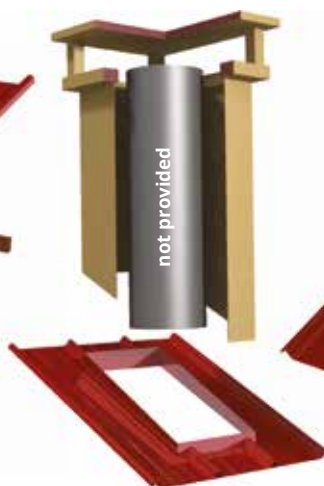
COMPOSITION OF THE SYSTEM

INSTALLING OUTLETS AND PENETRATIONS

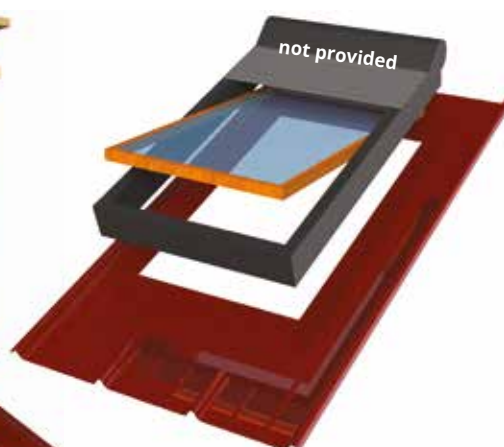
Installing
a trimmer



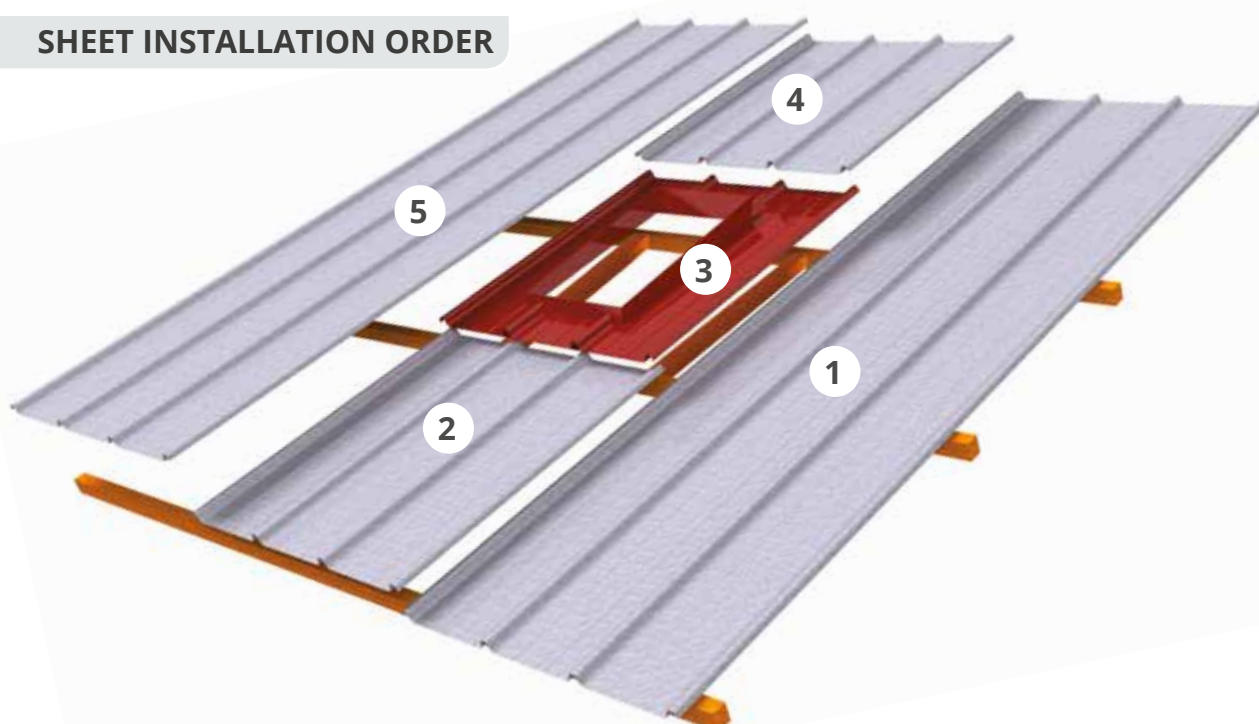
Penetration for a
chimney opening



Penetration for a
roof window



SHEET INSTALLATION ORDER



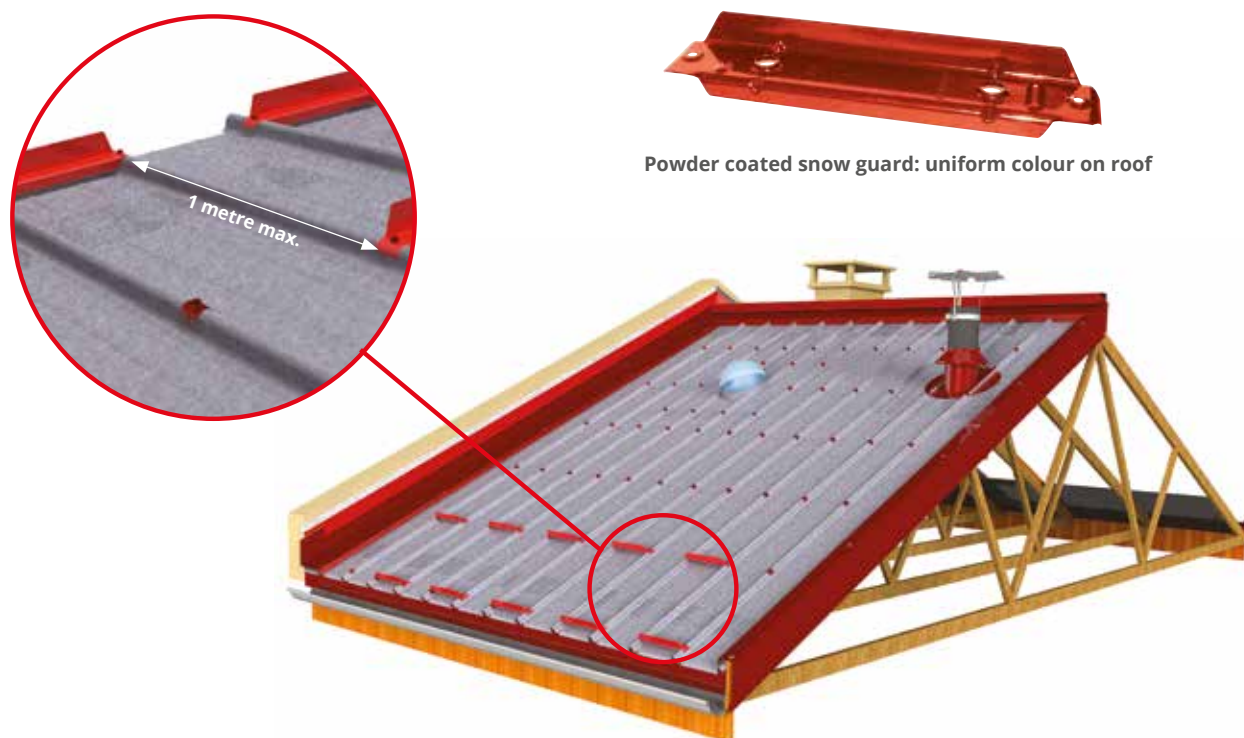
We can adapt the gap dimensions according to your requirements!

MISCELLANEOUS ACCESSORIES

Snow guard

To be installed in staggered rows between two profile ribs and fixed with two fixing screws \varnothing 6.3 mm. This avoids having to use crowns, waterproofing is ensured by the washers.

Minimum density: 4 snow guards per square metre



Powder coated snow guard: uniform colour on roof

Sealing strip

To be placed directly along the laps - for more information, please go to page 203.

Material: Butyl-based flexible sealant
Seam diameter: \varnothing 5.5 mm
Seam length: roll of 8 ml

Conservation: 12 months from the date of manufacture, in the original packaging away from light and humidity.

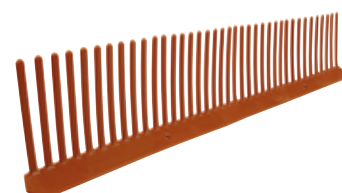
Storage: Store in a well-ventilated building with a maximum temperature of 30°C.
Safety: Keep out of reach of children.



Comb filler

Prevents birds and other pests nesting under the roof. For more details on installation, please refer to the ridge installation chapter.

Material: Polypropylene
Comb height: 55 mm
Comb length: 1 ml
Safety: Keep out of reach of children.



LANDRYBAC SYSTEM ROOF FLASHINGS

Standard thickness 0.75 mm painted 50 µm, lengths 2100 mm

Single slope ventilated ridge

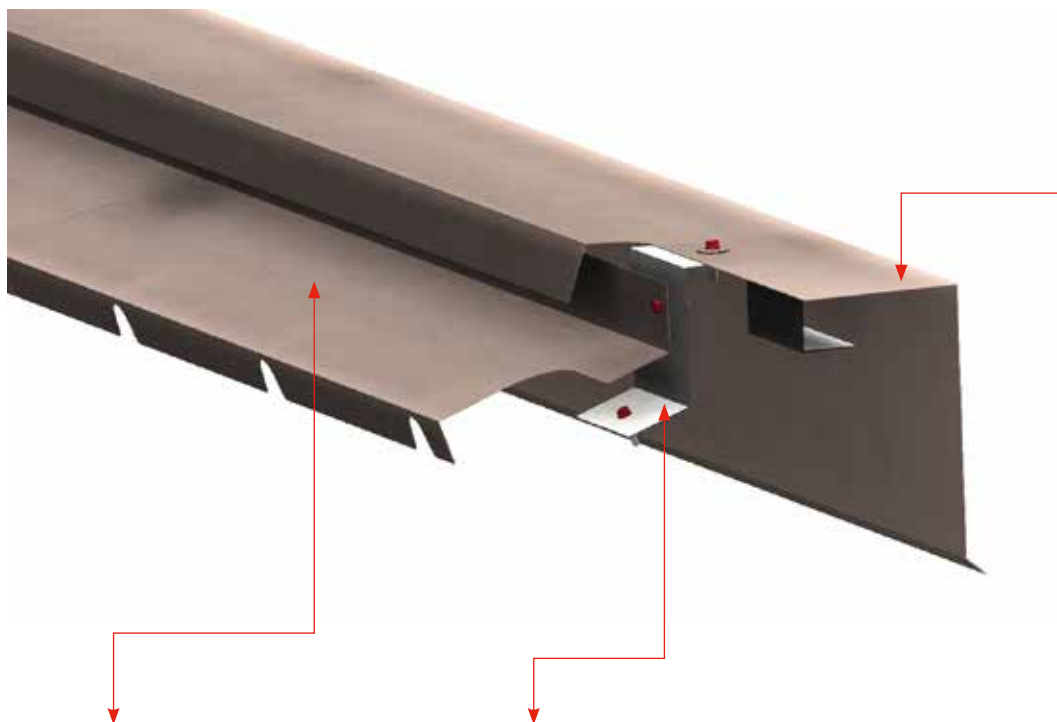


Galeo: G

Nerro: N

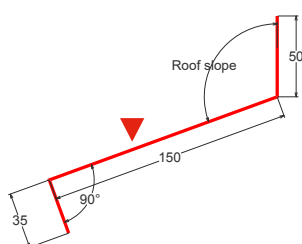
Volcano: V

Azuro: A



Ridge strip

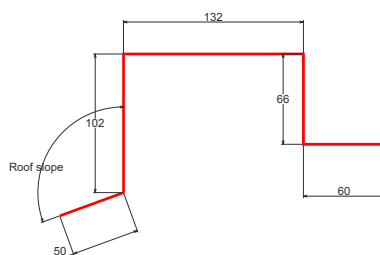
Item code: PLIBFLBA
 PLIBFLBG
 PLIBFLBN
 PLIBFLBV



Spacer

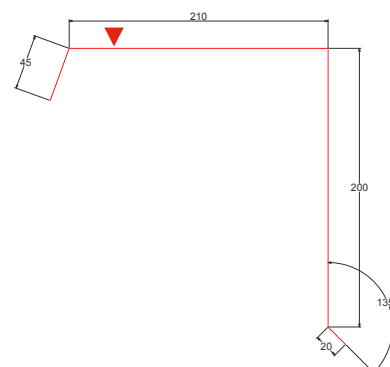
Item code: PLIECARTLB

Standard thickness 1.5 mm galva
 Length: 100 mm



Single ridge cap

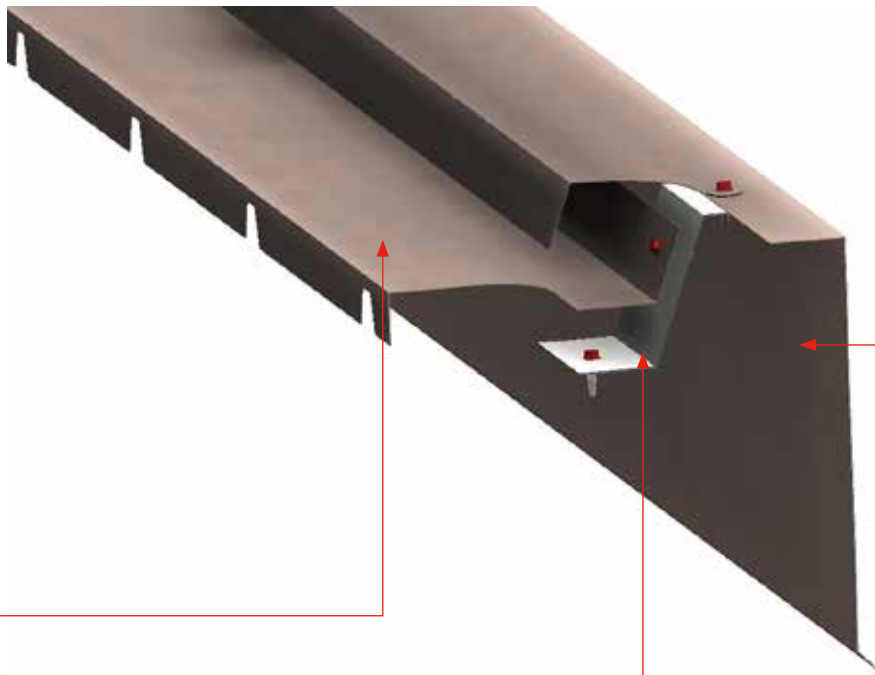
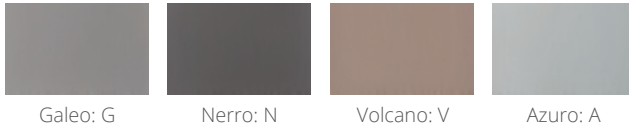
Item code: PLICHAPLBFPDA
 PLICHAPLBFPDG
 PLICHAPLBFPDN
 PLICHAPLBFPDV



LANDRYBAC SYSTEM ROOF FLASHINGS

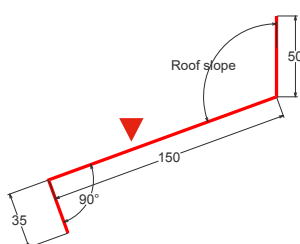
Standard thickness 0.75 mm painted 50 µm, lengths 2100 mm

SINGLE SLOPE VENTILATED RIDGE WITH OVERHANG



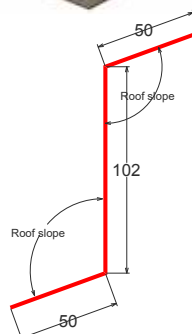
Ridge strip

Item code: PLIBFLBA
 PLIBFLBG
 PLIBFLBN
 PLIBFLBV



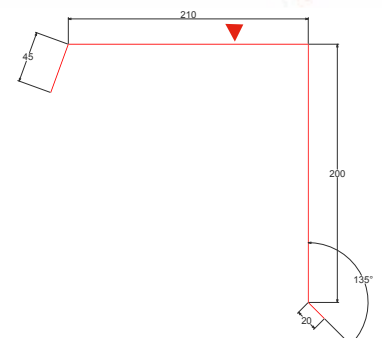
Single slope ridge spacer with overhang

Item code: PLIECARTLBFPD
 Standard thickness 1.5 mm galva
 One every metre
 Length: 100 mm



Single slope ridge cap with overhang

Item code: PLICHAPLBFPDA
 PLICHAPLBFPDG
 PLICHAPLBFPDN
 PLICHAPLBFPDV



LANDRYBAC SYSTEM ROOF FLASHINGS

Standard thickness 0.75 mm painted 50 µm, lengths 2100 mm

Ventilated headwall ridge

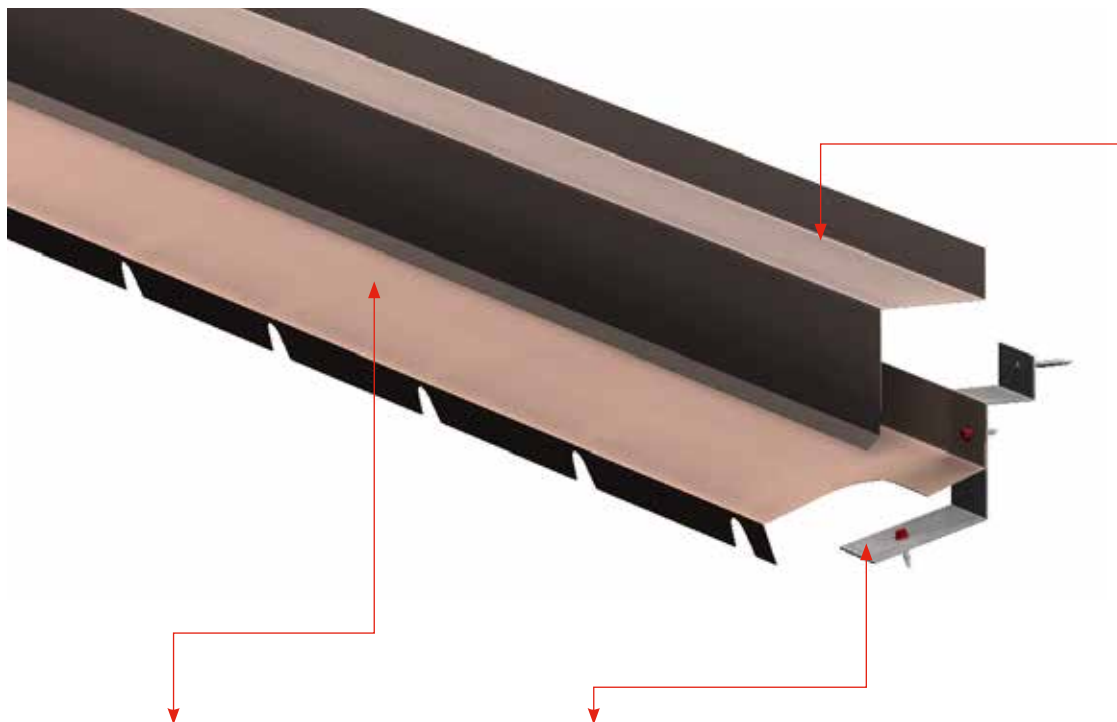


Galeo: G

Nerro: N

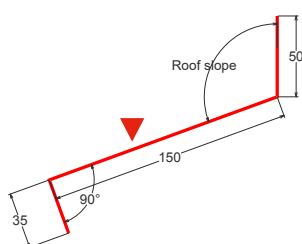
Volcano: V

Azuro: A



Ridge strip

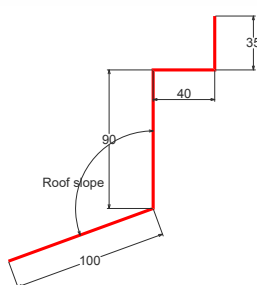
Item code: PLIBFLBA
PLIBFLBG
PLIBFLBN
PLIBFLBV



Wall-abutting ridge spacer

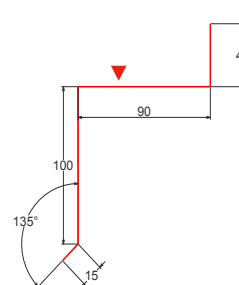
Item code: PLIECARTLBFCM

Standard thickness 1.5 mm galva
Length: 100 mm



Flashing

Item code: PLISOLINLBA
PLISOLINLBG
PLISOLINLBN
PLISOLINLBV



LANDRYBAC SYSTEM ROOF FLASHINGS

Standard thickness 0.75 mm painted 50 µm, lengths 2100 mm

Double ventilated ridge cap

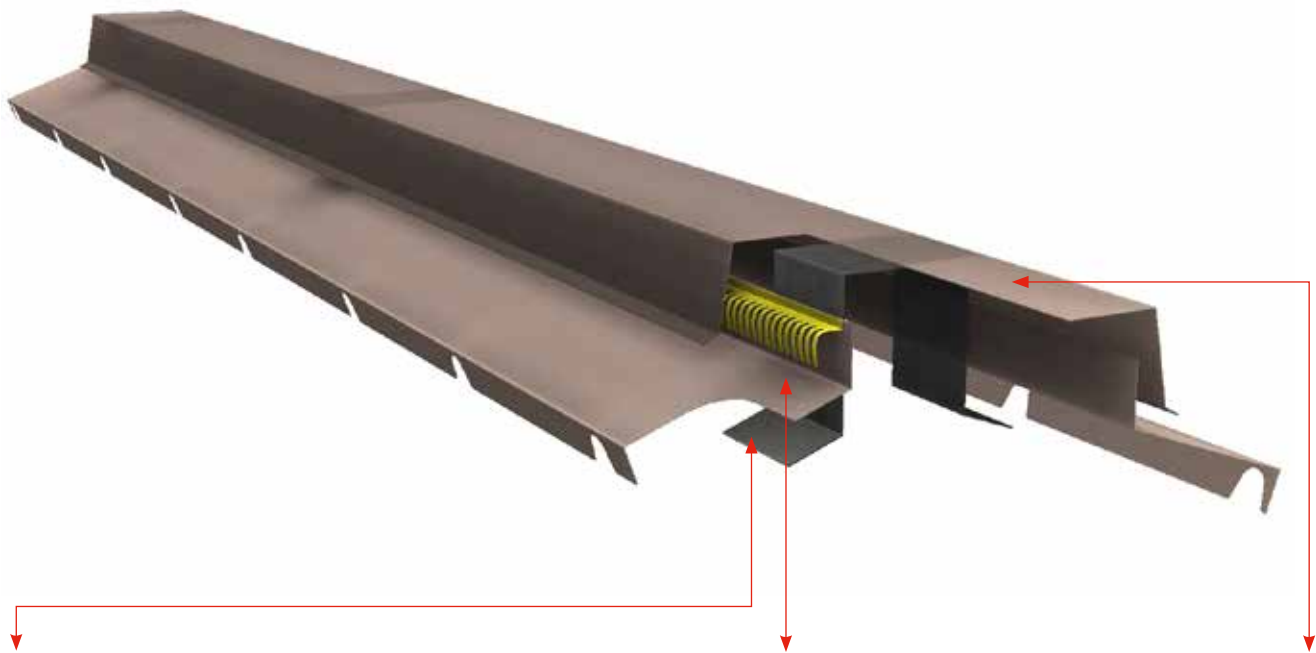


Galeo: G

Nerro: N

Volcano: V

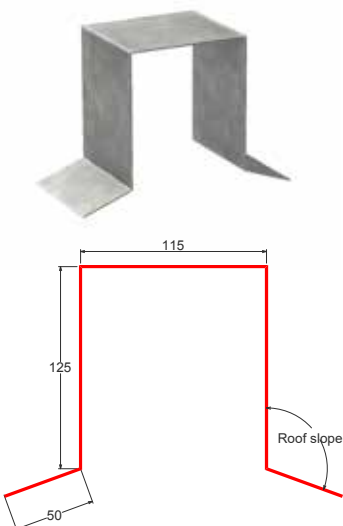
Azuro: A



Spacer

Item code: PLIREHAUSSEURLB

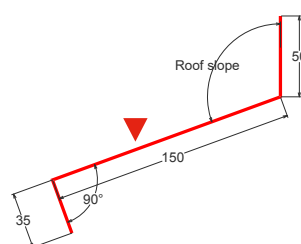
Standard thickness 1.5 mm galva
One every metre
Length: 100 mm



Ridge strip

Item code: PLIBFLBA

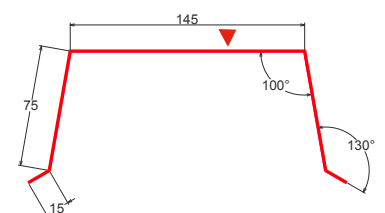
PLIBFLBG
PLIBFLBN
PLIBFLBV



Double ridge cap

Item code: PLICHAPEAULBFDA

PLICHAPEAULBFDG
PLICHAPEAULBFDN
PLICHAPEAULBFDV



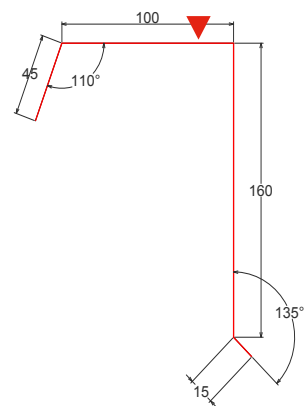
LANDRYBAC SYSTEM ROOF FLASHINGS

Standard thickness 0.75 mm painted 50 µm, lengths 2100 mm

OTHER ACCESSORIES

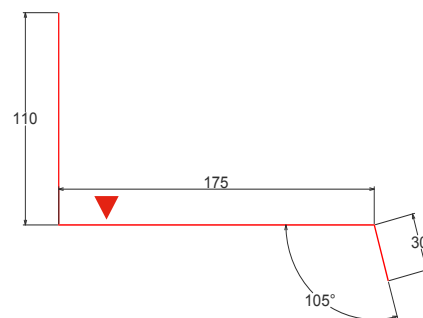
EDGE STRIP

Item code: PLIBRLBA
 PLIBRLBG
 PLIBRLBN
 PLIBRLBV



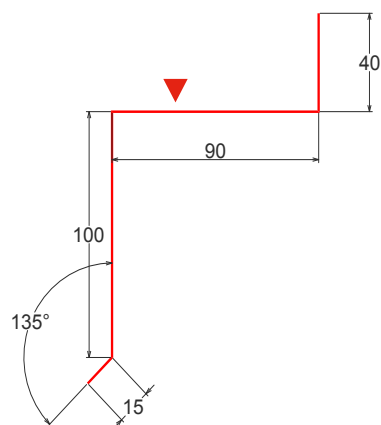
HEADWALL EDGE

Item code: PLIRCMLBA
 PLIRCMLBG
 PLIRCMLBN
 PLIRCMLBV



FLASHING

Item code: PLISOLINLBA
 PLISOLINLBG
 PLISOLINLBN
 PLISOLINLBV



STANDARD FLASHINGS

All standard flashings are also available in Landrybac Zinc Spirit colours



Galeo: G

Nerro: N

Volcano: V

Azuro: A



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