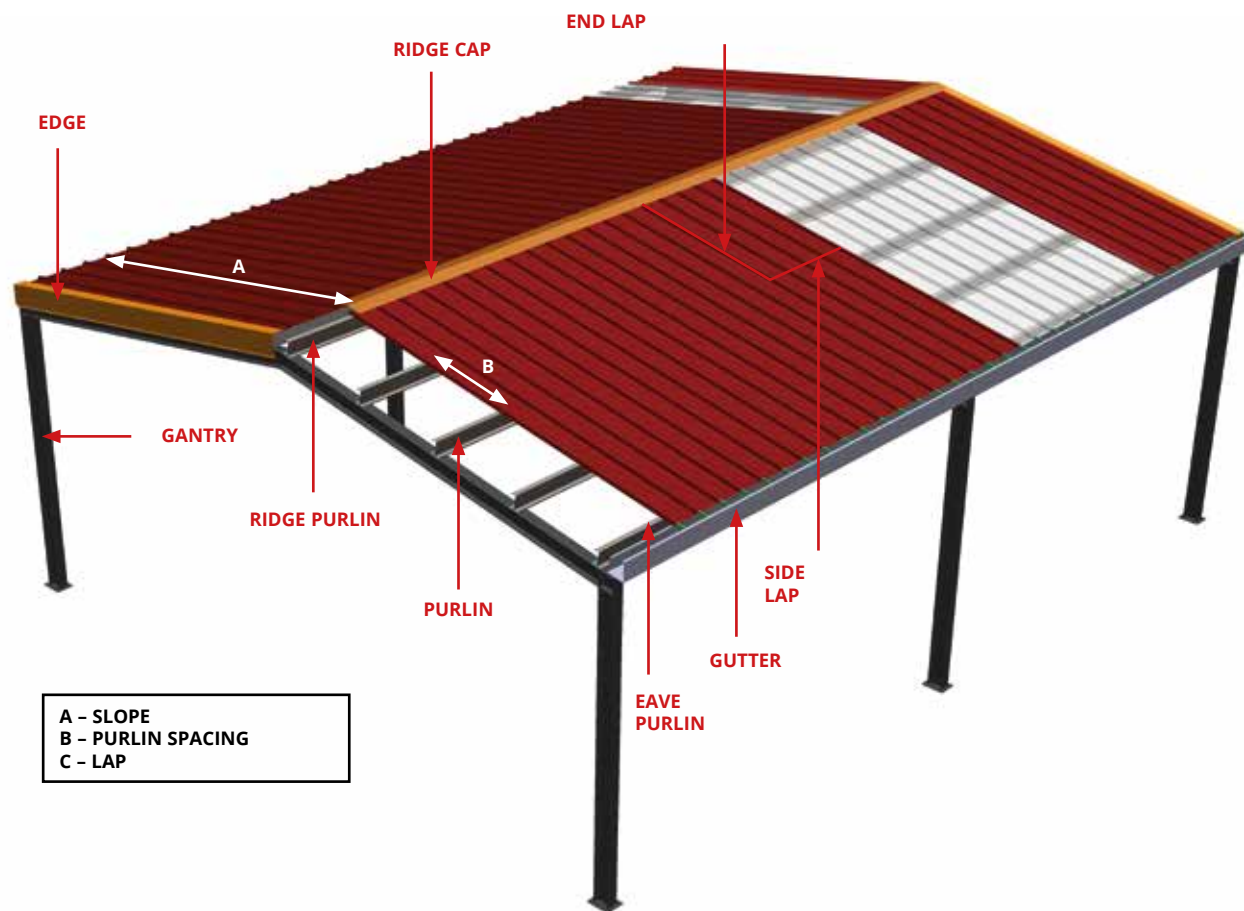
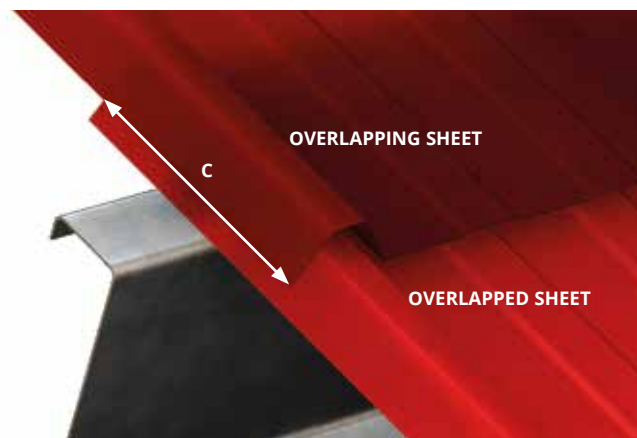


## FUNDAMENTAL RULES OF ROOFING



SIDE LAP



END LAP

## FUNDAMENTAL RULES OF ROOFING

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

|     |     |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |      |
|-----|-----|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|------|
| 3°  | 4°  | 6°   | 8°   | 10°  | 12°  | 14°  | 16°  | 18°  | 20°  | 22°  | 24°  | 26°  | 28°  | 30°  | 32°  | 34°  | 36°  | 38°  |
| 5 % | 7 % | 10 % | 14 % | 18 % | 21 % | 25 % | 29 % | 32 % | 36 % | 40 % | 44 % | 49 % | 53 % | 58 % | 62 % | 67 % | 73 % | 78 % |

### MINIMUM VALUES TO USE FOR ROOF SLOPES WITH THE COVEO RANGE<sup>(2)</sup>

| CONFIGURATION OF THE ROOF  | HEIGHT OF RIBS h (mm) | CLIMATIC ZONES AND SITUATION (WHERE H IS THE ALTITUDE IN METRES) |                     |                     |                     |                     |                     |  |
|--|-----------------------|--|---------------------|---------------------|---------------------|---------------------|---------------------|--|
|  |                       | ZONE I   |                     |                     | ZONE II             |                     |                     | ZONE III   |
|  |                       | situation  |                     |                     | situation           |                     |                     | all situations   |
|  |                       | protected  | normal              | exposed             | protected           | normal              | exposed             |  |
| Simultaneously:<br>- no penetration<br>- no polyester fibre translucent sheets<br>- ribbed sheets of equal length to the slope | h ≥ 35                | 5 %  | 5 %                 | 5 %                 | 5 %                 | 5 %                 | 5 %                 | 5 %  |
|  | h < 35                | 7 %  | 7 %                 | 7 %                 | 7 %                 | 7 %                 | 7 %                 | 15 %   |
| other cases  | h ≥ 35                | 7 %  | 7 %                 | 10 % <sup>(1)</sup> | 7 %                 | 10 % <sup>(1)</sup> | 10 % <sup>(1)</sup> | H ≤ 500: 10 % <sup>(1)</sup><br>500 < H ≤ 900: 15 % <sup>(1)</sup> |
|  | h < 35                | 10 % <sup>(1)</sup>  | 10 % <sup>(1)</sup> | 15 % <sup>(1)</sup> | 10 % <sup>(1)</sup> | 15 % <sup>(1)</sup> | 15 % <sup>(1)</sup> | 15 %   |

<sup>(1)</sup> If the roof does not include polyester fibre translucent sheets but has profiled sheet endlaps or penetrations, the minimum slope can be reduced to 7% using side sealing strips.

<sup>(2)</sup> Contact the sales department for slopes in the SINUS range.

### MAXIMUM SLOPE LENGTHS

DTU 40.35 does not apply to slope lengths exceeding 40 m.

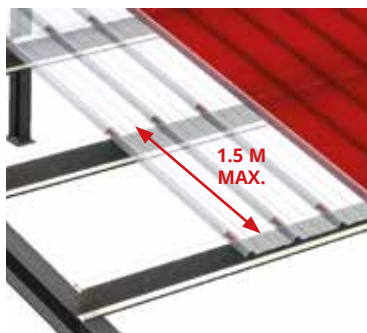
If the ribs are lower than 35 mm, the slope length is limited to 30 m.

### SPECIFIC FEATURES OF TRANSLUCENT PANELS

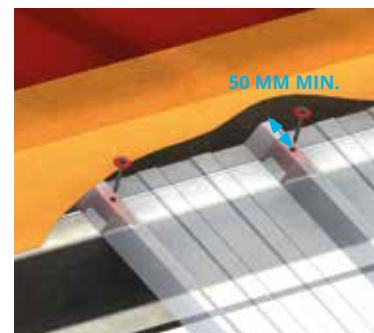
The fibreglass-reinforced polyester panels must be the same profile as the ribbed panels of the intermediate section.



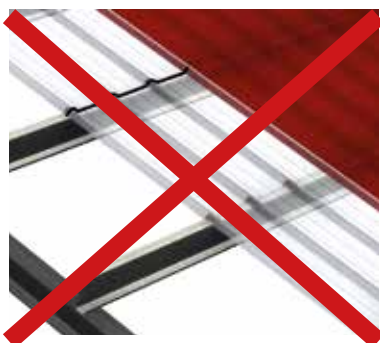
Prohibited on edge



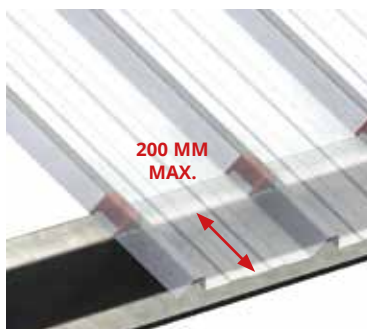
Span 1.50 m max.



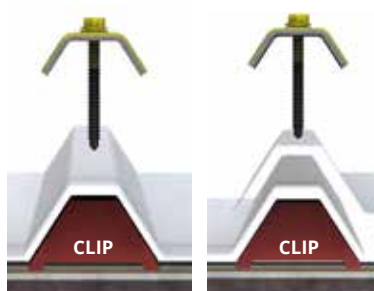
The sheets should be punched at the rib summit at least 50 mm from the side edges



End lap prohibited



Gutter overhang 200 mm max.



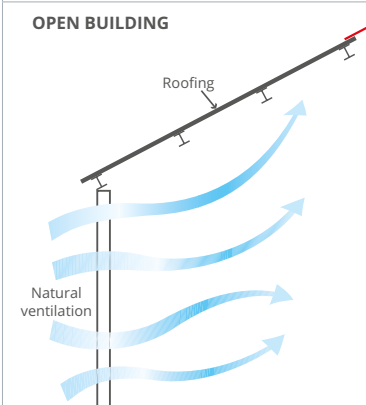
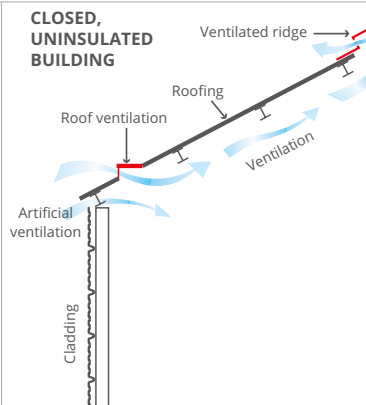
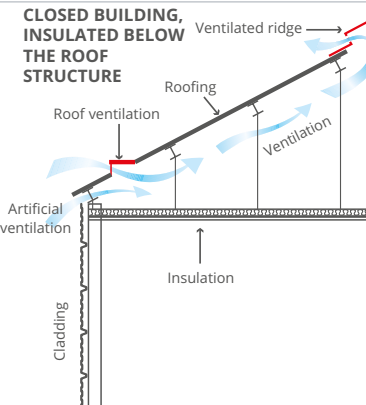
Clip compulsory at each fixing.



## COLD ROOFS

Roofs that have an air space ventilated with outdoor air on the underside of the ribbed sheet.

### CONCEPTS TO TAKE INTO ACCOUNT FOR COLD ROOFS

|   | UNINSULATED   |   | INSULATED   |
|---|---|---|---|
|   | <b>OPEN BUILDING</b><br> | <b>CLOSED, UNINSULATED BUILDING</b><br>   | <b>CLOSED BUILDING, INSULATED BELOW THE ROOF STRUCTURE</b><br>   |
| Risk of condensation on the underside of the roof                             | High  | High  | High  |
| Presence of a condensation control felt underlay on the underside of the roof | Recommended   | Highly recommended  | Compulsory  |
| Condensation control procedure  | <b>NATURAL</b><br>Air exchanges (inlets and outlets) are sufficient                                       | <b>ARTIFICIAL</b><br>With ventilation equivalent to: <ul style="list-style-type: none"> <li>- Air inlet (bottom of roof): 1/500th of the projected floor area from the slope</li> <li>- Air outlet (top of roof): 1/500th of the projected surface area of the slope</li> </ul> | <b>ARTIFICIAL</b><br>With ventilation equivalent to:<br><b>LOW HYGROMETRY BUILDING</b> <ul style="list-style-type: none"> <li>- Air inlet (bottom of roof): 1/2000th of the projected floor area from the slope</li> <li>- Air outlet (top of roof): 1/2000th of the projected floor area from the slope</li> </ul><br><b>MEDIUM HYGROMETRY BUILDING</b> <ul style="list-style-type: none"> <li>- Air inlet (bottom of roof): 1/0000th of the projected floor area from the slope</li> <li>- Air outlet (top of roof): 1/1000th of the projected floor area from the slope</li> </ul> |

N.B.: the ventilation section should not exceed 400 cm<sup>2</sup>/ml



**NOTE:** the regulator may not be compatible with certain environments that could affect the operation of the regulator (dust) or increase the risk of condensation (vapour or gas)

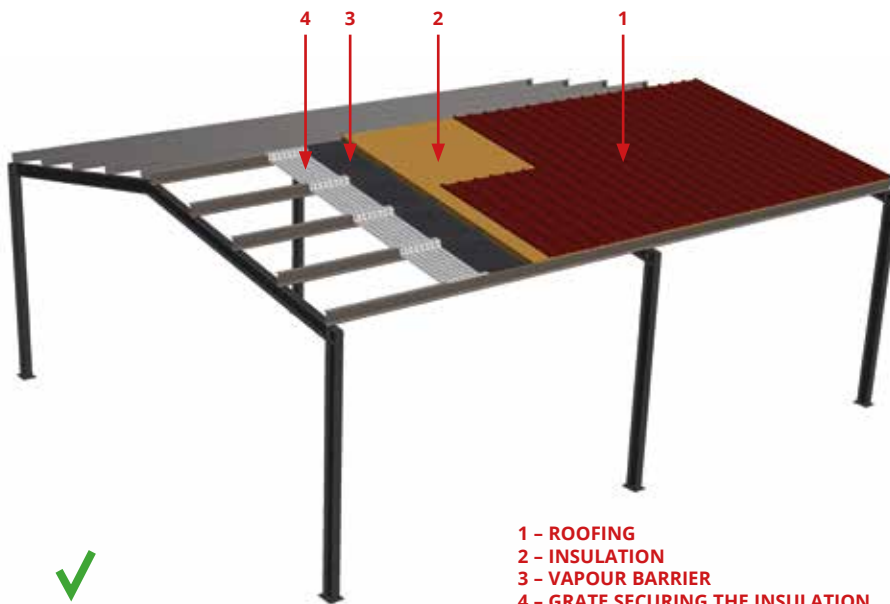
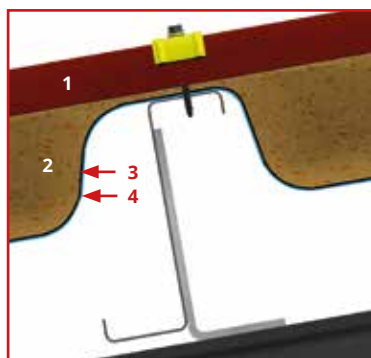
## WARM ROOFS

Roofs that are insulated on the underside of the ribbed sheets and typically do not have an air space between the underside of the roof and the insulation. If there is an air space, it is not ventilated with outdoor air.



### INSULATION ON PURLINS

### SINGLE SKIN ROOF



- 1 - ROOFING
- 2 - INSULATION
- 3 - VAPOUR BARRIER
- 4 - GRATE SECURING THE INSULATION

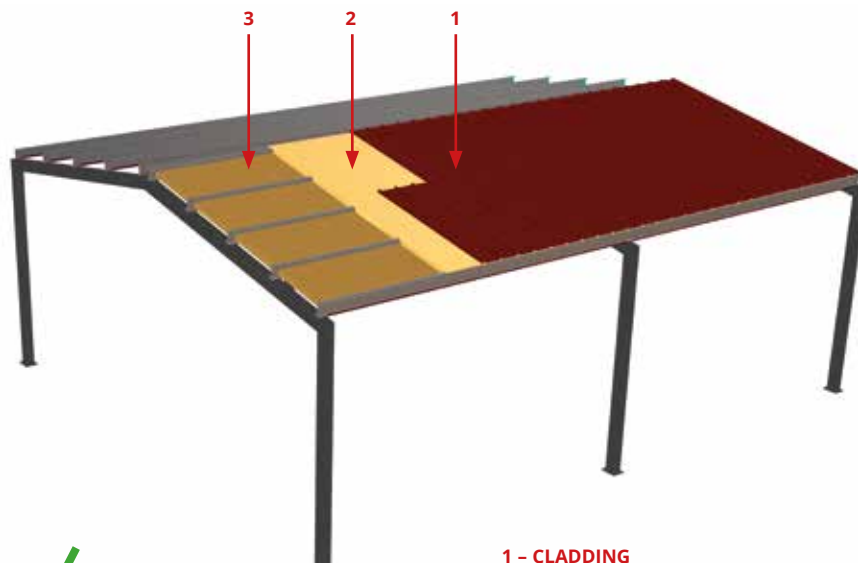
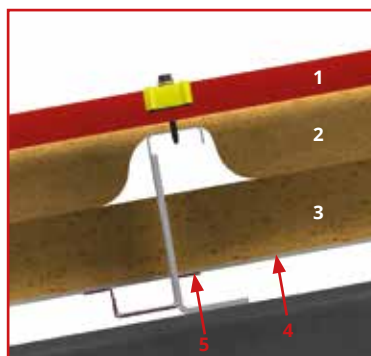
LOW HYGROMETRY BUILDING



MEDIUM AND HIGH HYGROMETRY BUILDING



### INSULATION BETWEEN PURLINS without air space



- 1 - CLADDING
- 2 - INSULATION
- 3 - SELF-SUPPORTING INSULATING PANEL
- 4 - VAPOUR BARRIER
- 5 - SUPPORT FLASHING

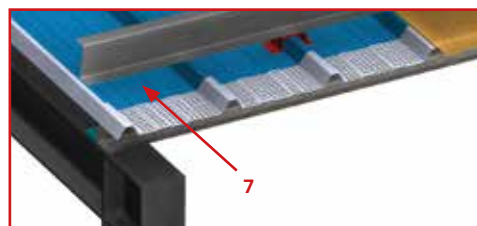
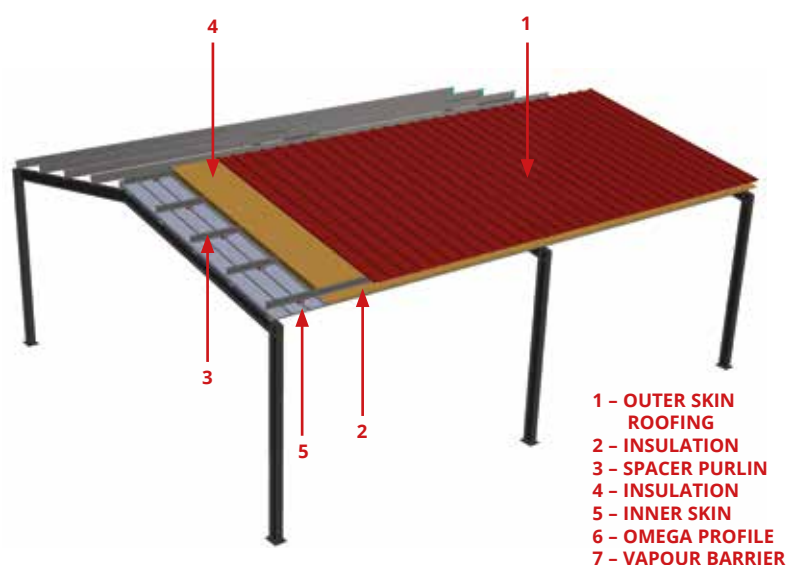
LOW HYGROMETRY BUILDING



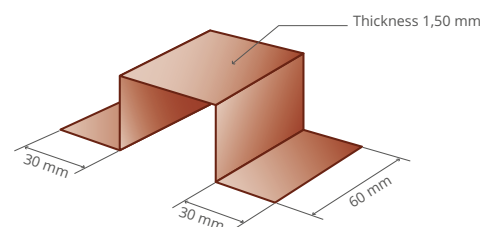
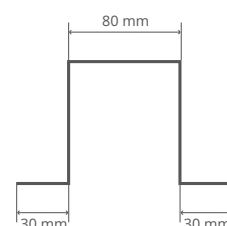
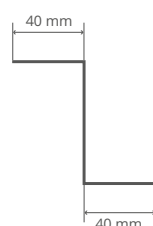
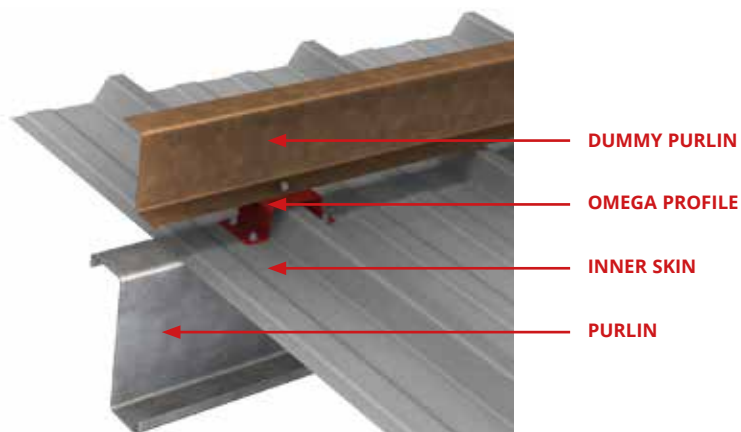
MEDIUM AND HIGH HYGROMETRY BUILDING



## DOUBLE SKIN ROOF PROFILE - DECKING

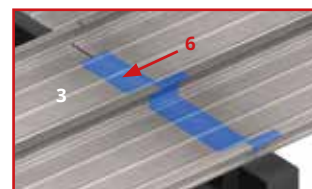
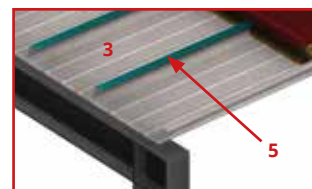
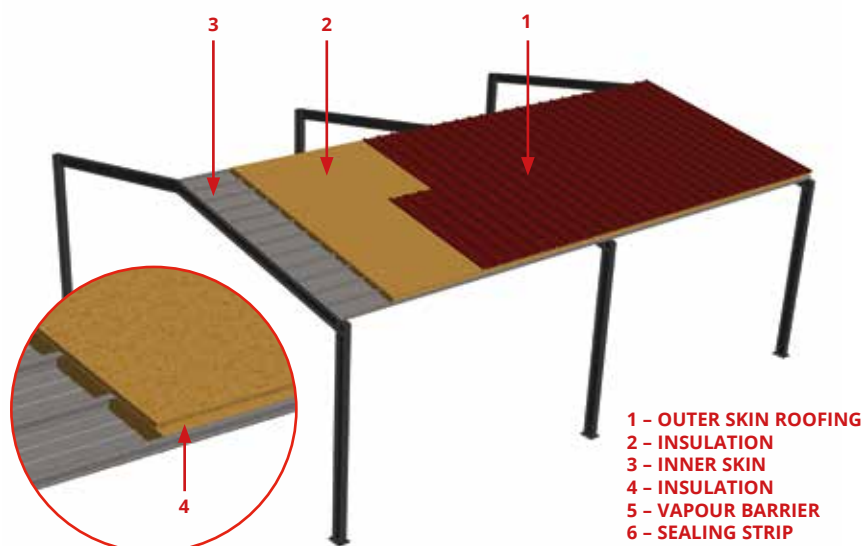


## STRUT FOR DOUBLE SKIN ROOFING - MINIMUM DIMENSIONS TO USE



Cross pieces, dummy purlins and their fixings must be validated by a study.

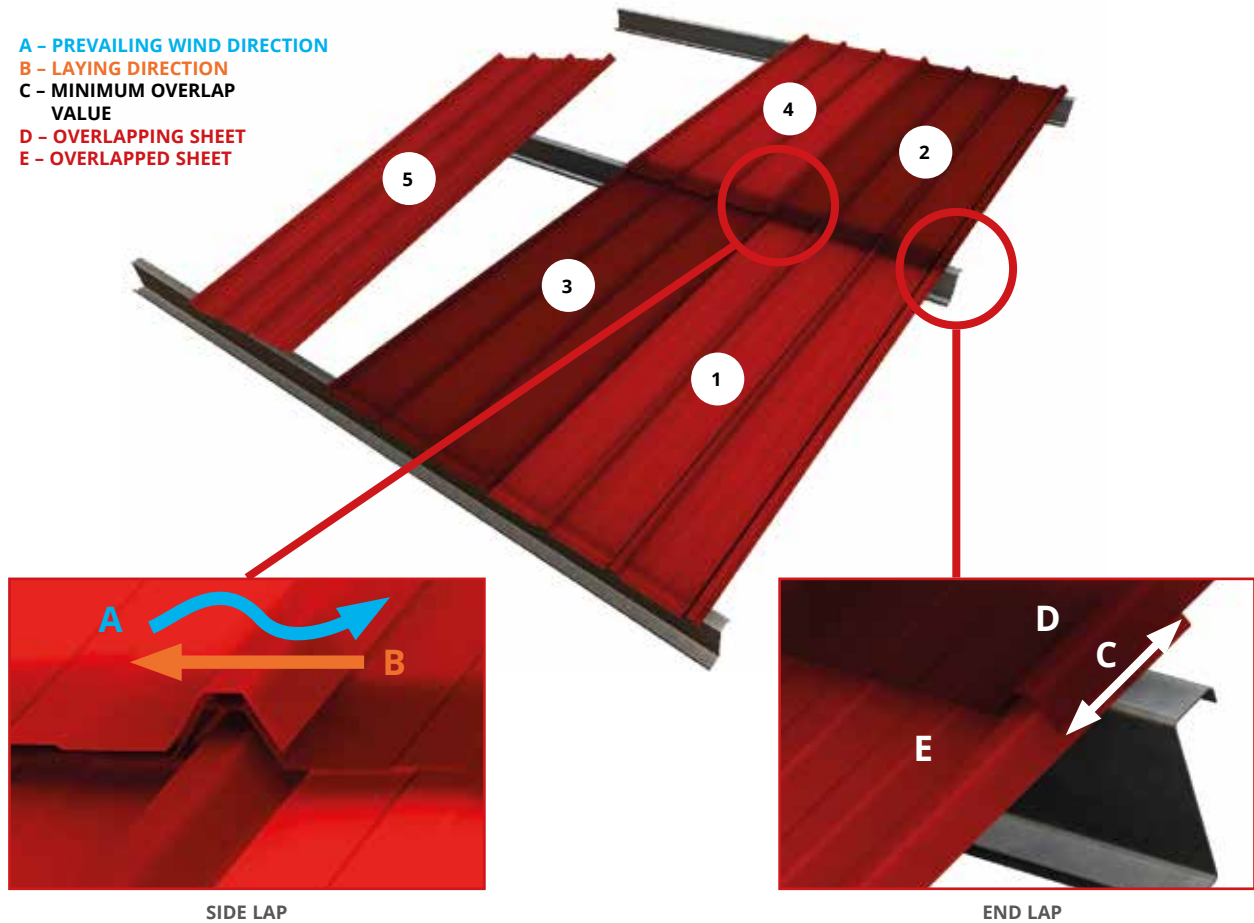
## DOUBLE SKIN ROOF - CROSS FRAMES NOT COVERED BY FRENCH STANDARD DTU





## ROOFING

- A - PREVAILING WIND DIRECTION
- B - LAYING DIRECTION
- C - MINIMUM OVERLAP VALUE
- D - OVERLAPPING SHEET
- E - OVERLAPPED SHEET



### MINIMUM END LAP WITHOUT SEALING STRIP

| SLOPE s (%)      | CLIMATIC ZONES |                         |
|------------------|----------------|-------------------------|
|                  | ZONE I         | ZONE III                |
| $7 \leq s < 10$  | 300            | case not covered by DTU |
| $10 \leq s < 15$ | 200            | 40.35                   |
| $s \geq 15$      | 150            | 300                     |
|                  |                | 200                     |

### MINIMUM SIDE LAP WITH SEALING STRIP

| SLOPE s (%)      | MINIMUM OVERLAP (mm) | ZONE I: PROTECTED AND NORMAL SITUATIONS | ZONE II: PROTECTED AND NORMAL SITUATIONS | ZONES I AND II: EXPOSED SITUATIONS<br>ZONE III: ALL SITUATIONS |
|------------------|----------------------|---|--|--|
| $7 \leq s < 20$  | 200                  | S.S. <sup>1</sup>                       | S.S.                                     | S.S.   |
| $20 \leq s < 25$ | 200                  | -                                       | S.S.                                     | S.S.   |
| $25 \leq s < 35$ | 200                  | -                                       | -  | S.S.   |
| $s > 35$         | 150                  | -                                       | -  | -  |

<sup>1</sup> sealing strip

**SEALING STRIP** : In accordance with Standard NF P 30-305 sealing strips should be installed on a clean and dry surface. The sealing strip is placed at the support approximately 3 cm below the fixing line.

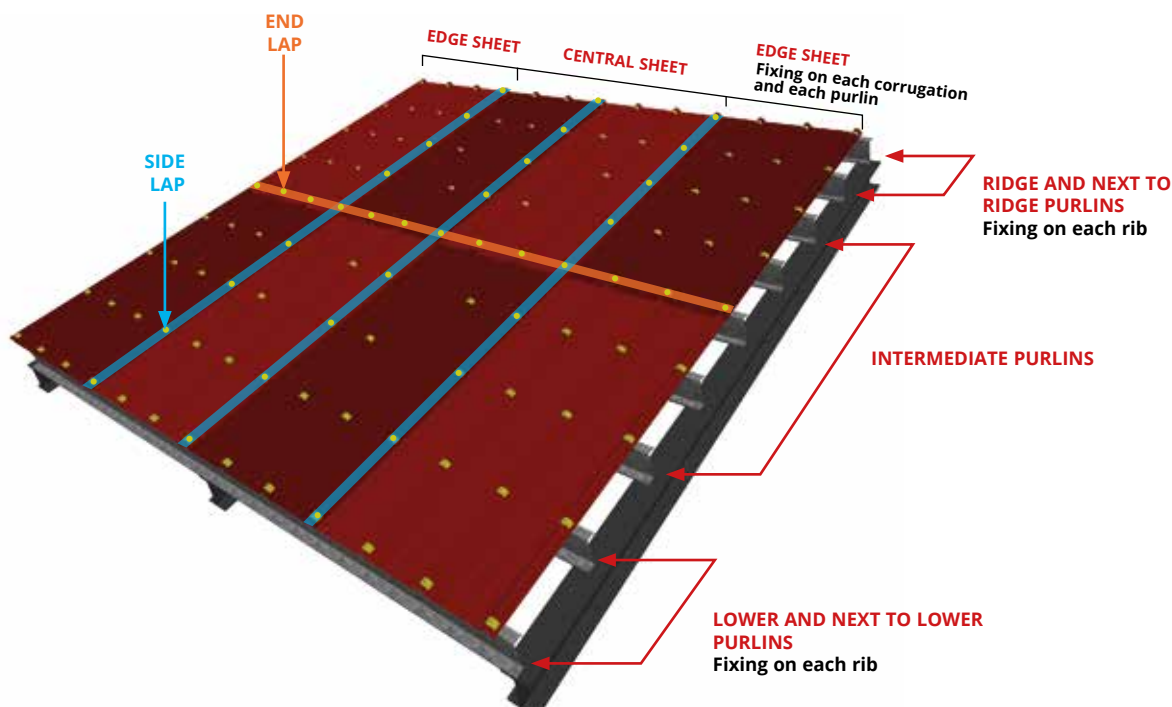
Sheets with condensation regulator have to be installed in a specific way.



CONDENSATION CONTROL SOLUTION - PAGE 178

## FIXINGS

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



### FIXING ON STEEL SUPPORT

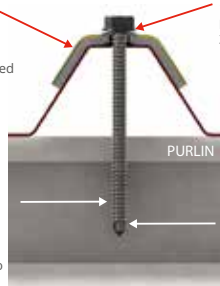
**DTU 40.35**  
MINIMUM THICKNESS OF THE LOCK WASHER:  
- Steel : 0,75 mm  
- Aluminium : 1,00 mm  
The shape must be adapted to the profile to be fixed

**DTU 40.35**  
MINIMUM DIAMETER OF THE WASHER:  
18 mm (external)  
MINIMUM THICKNESS OF THE WASHER:  
3 mm

Tightening capacity

Piercing capacity

**DTU 40.35**  
MINIMUM DIAMETER OF THE SCREW: 5,5 mm  
MINIMUM LENGTH OF THE SCREW: enough to let the thread be seen on the underside of the support after fixing



**DTU 40.35**  
TIGHTENING OF THE SCREW: minimum enough to let 1 thread be seen above and 2 threads

### OVERLAP STITCHING

#### MAXIMUM SPACING

| Space between supports | Slope $\geq 10^\circ$<br>Spacing between screws | Slope < $10^\circ$<br>Space between screws |
|------------------------|---|--|
| < 2 m                  | e   | e/2  |
| 2 à 3,5 m              | e/2   | 1 m  |
| > 3,5 m                | 1 m   | 1 m  |

**DTU 40.35**  
MINIMUM DIAMETER OF THE WASHER:  
19 mm (external)  
MINIMUM LENGTH OF THE WASHER: 3 mm

**DTU 40.35**  
MINIMUM DIAMETER OF THE SCREW: 4,8 mm

Capacité de perçage

**DTU 40.35**  
MINIMUM TIGHTENING OF THE SCREW: so that the thread is visible under the sheet after installation

**DTU 40.35**  
MINIMUM LENGTH OF THE SCREW: 19 mm

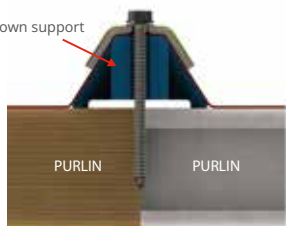
The fixing of the sheet to the supports on the sidelap rib is also considered as a stitching if the screw is fixed on the rib summit.

### FIXING TRANSLUCENT PANELS

Fix down support

Tightening capacity

Piercing capacity



### FIXING ON WOODEN SUPPORT

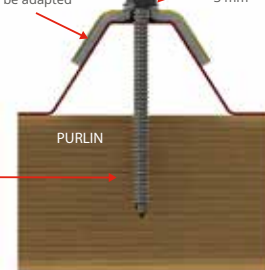
**DTU 40.35**  
MINIMUM THICKNESS OF THE LOCK WASHER:  
- Steel : 0,75 mm  
- Aluminium : 1,00 mm  
The shape must be adapted to the profile to be fixed

**DTU 40.35**  
MINIMUM DIAMETER OF THE WASHER:  
18 mm (external)  
MINIMUM THICKNESS OF THE WASHER:  
3 mm

Tightening capacity

Anchor depth  $\geq 50$  mm

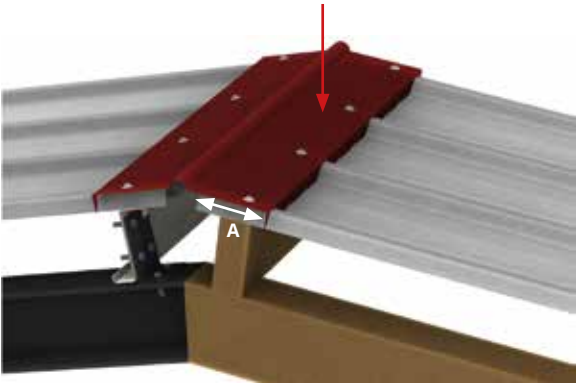
**DTU 40.35**  
MINIMUM DIAMETER OF THE SCREW: 6,3 mm  
MINIMUM DIAMETER OF THE LAG BOLT: the screw should be tightened so that you can see at least 1 thread above the purlin  
MINIMUM LENGTH OF THE SCREW: so that the threading is fixed to at least 50 mm deep



RIDGE FLASHINGS

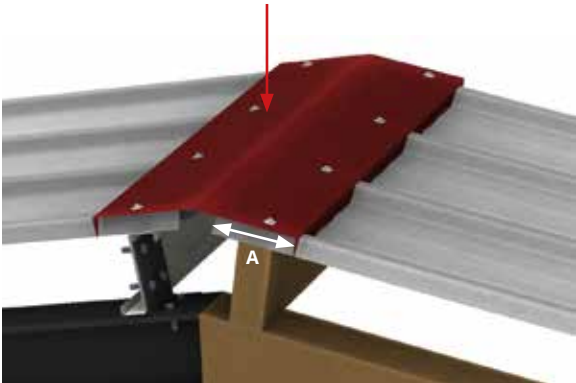
A - 120 MM MINI  
B - 100 MM MINI

DOUBLE RIDGE



ADJUSTABLE HALF TOOTHED RIDGE

TOOTHED RIDGE

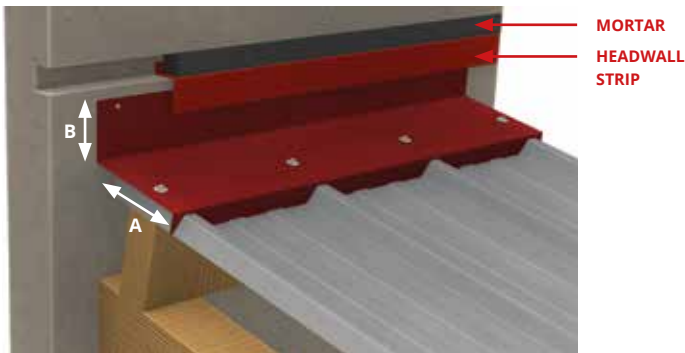


SINGLE RIDGE



RIDGE STRIP

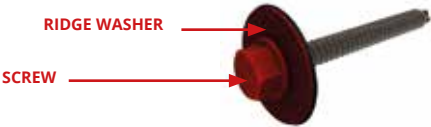
HEADWALL RIDGE



INSTALLATION SPECIFICS

| SLOPE   |  |       |        |
|---------|--|-------|--------|
| > 5 %   |  | > 7 % | > 10 % |
| RIDGE   |  |       |        |
|         |  |       |        |
| OVERLAP |  |       |        |

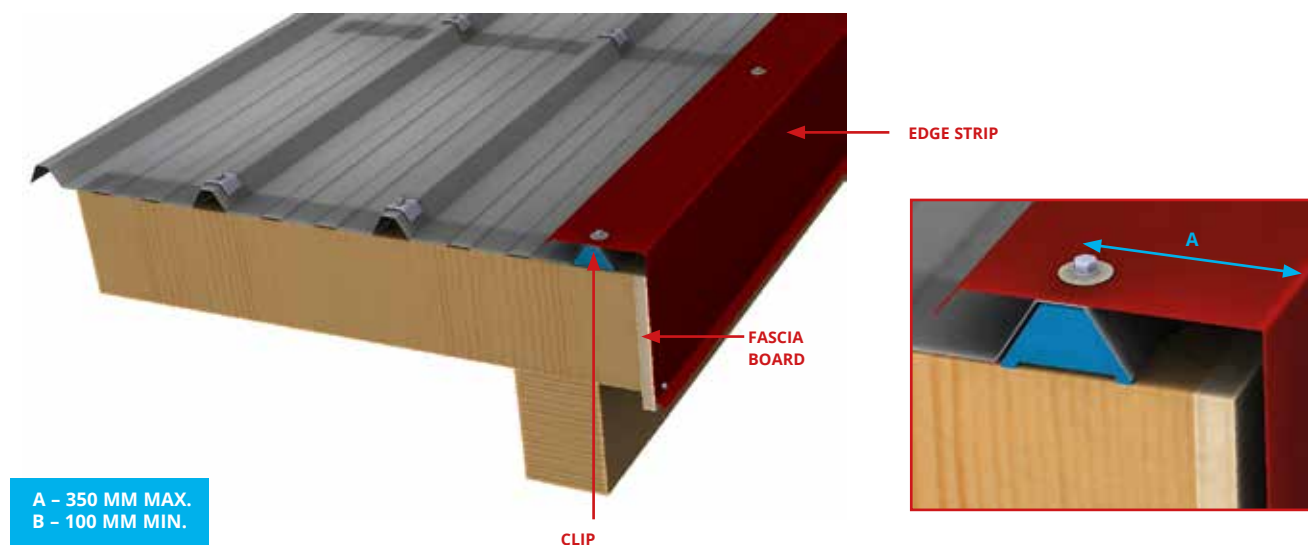
FLASHINGS ARE INSTALLED AT THE SAME TIME AS THE ROOFING SHEETS. THE USE OF A RIDGE WASHER IS HIGHLY RECOMMENDED.



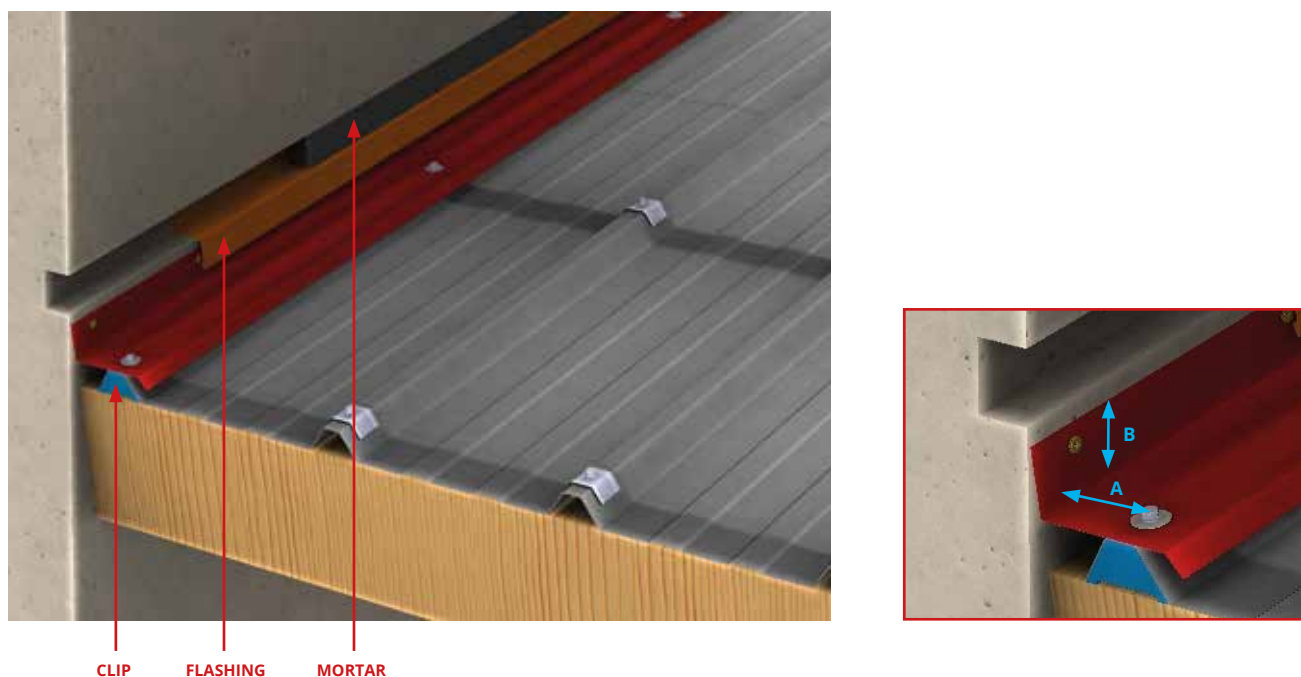


## EDGE

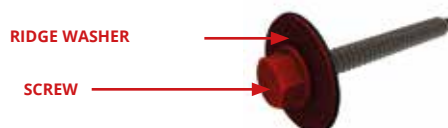
### SINGLE EDGE



### HEADWALL EDGE



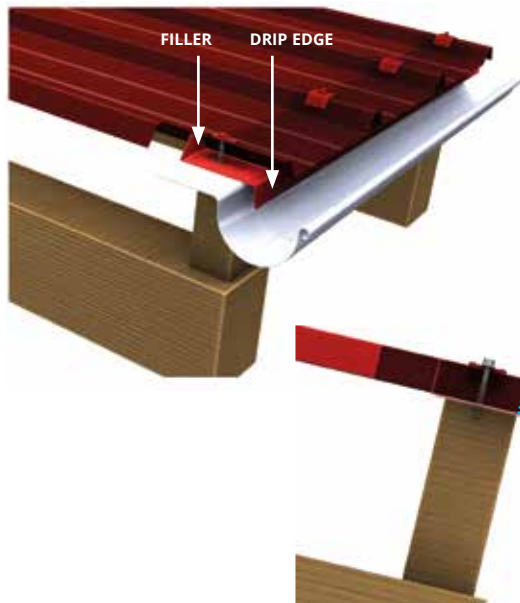
FLASHINGS ARE INSTALLED AT THE SAME TIME AS THE ROOFING SHEETS. THE USE OF A RIDGE WASHER IS HIGHLY RECOMMENDED.



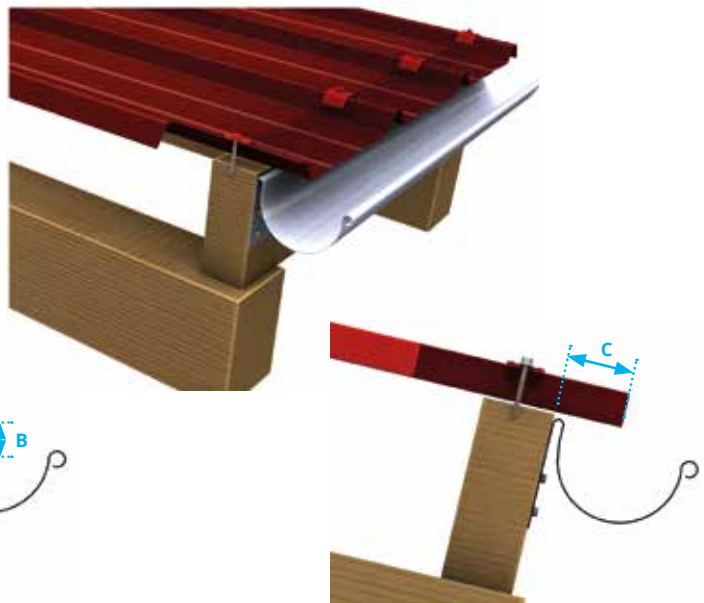
## GUTTER

### SINGLE GUTTER

GUTTER WITH DRIP EDGE/FILLER

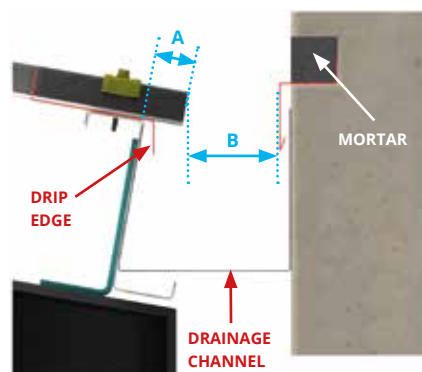
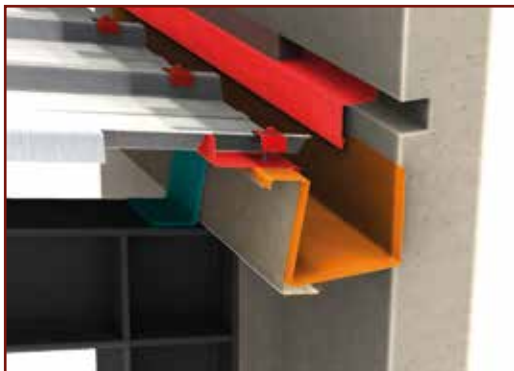


GUTTER WITHOUT DRIP EDGE/FILLER



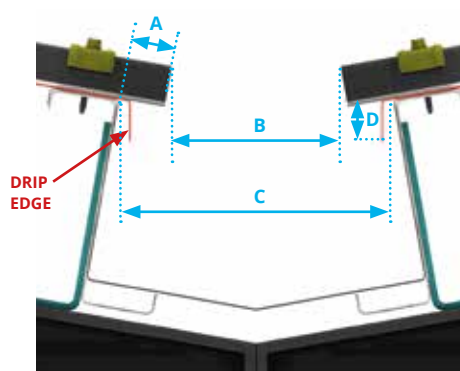
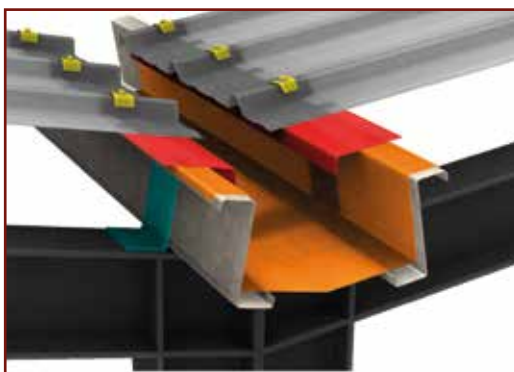
A - OVERHANG - 100 MM MINI  
- 400 MM MAX  
B - OVER 40 MM  
C - OVERHANG - 200 MM MINI  
- 400 MM MAX

### HEADWALL GUTTER



A - OVERHANG - 100 MM MINI  
- 400 MM MAX  
B - 80 MM MIN.  
D - 40 MM MIN

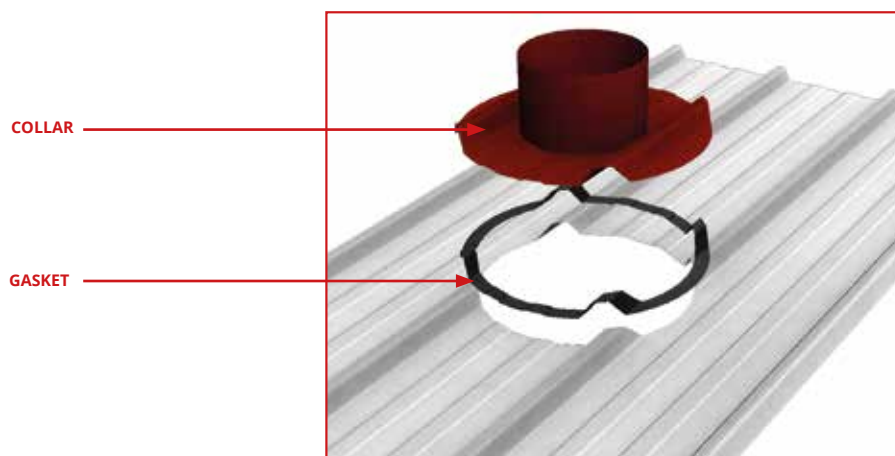
### CENTRAL GUTTER



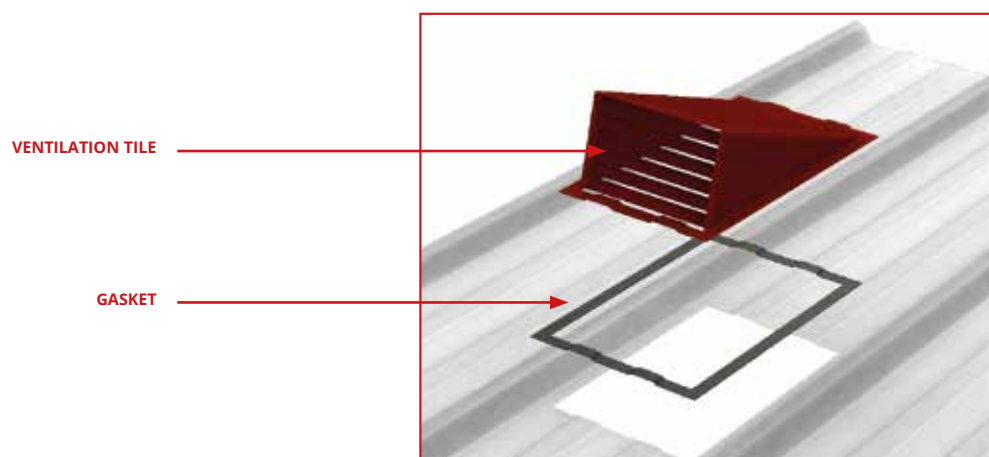
A - OVERHANG - 50 MM MINI  
B - 80 MM MINI  
C - 200 MM MINI  
D - 40 MM MIN

## OUTLETS AND PENETRATIONS

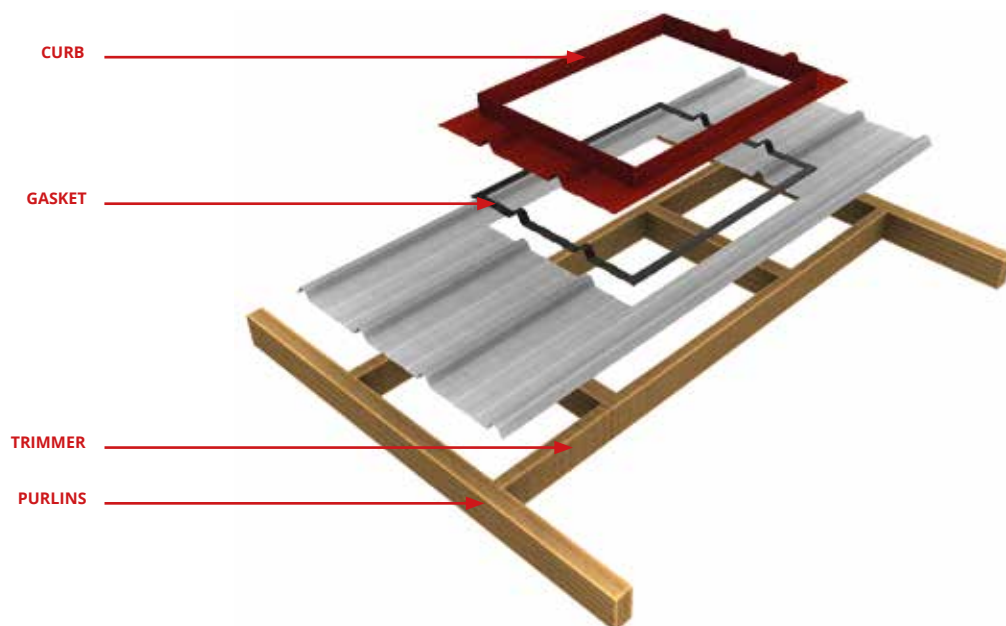
### COLLAR



### VENTILATION TILE



### CURB

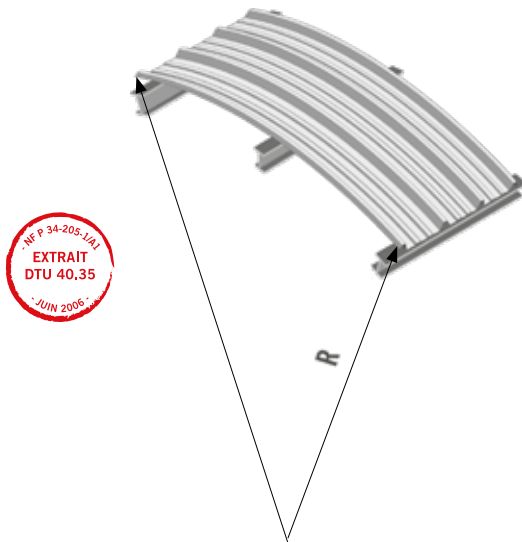


A trimmer is provided around penetrations with a dimension (width or length) over 400 mm.

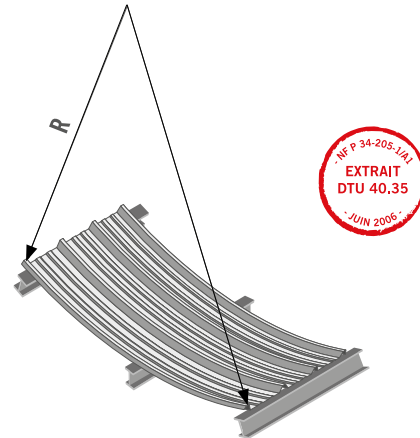
## CURVING - GENERAL POINTS

### GENERAL POINTS

**Convex curving:** curving when the centre of the curve is inside the building and the plates are always installed in protruding ribs.



**Concave curving:** curving when the centre of the curve is outside the building. (this type of curving is not covered by French Standard DTU 40.35 and is not carried out by Bacacier)



### CURVING PARAMETERS

R: curving radius  
 $\alpha$ : angle at centre (in degrees)  
 co: arch thread  
 f: arch deflection  
 $L_D$ : total length of arch

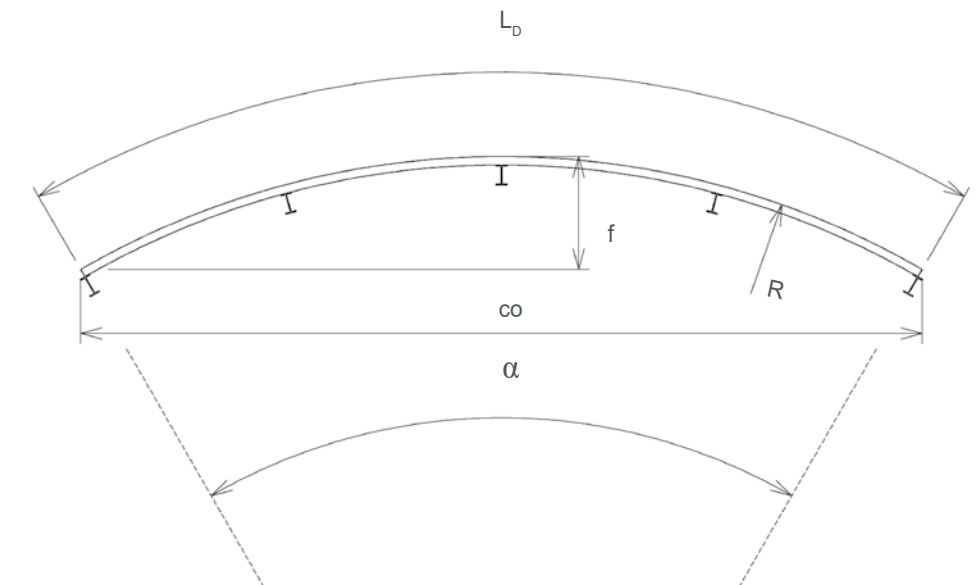
$$R = \frac{co^2 + 4f^2}{8f}$$

$$\alpha = 2 \cdot \arcsin\left(\frac{co}{2R}\right)$$

$$R = 2 \cdot \arcsin\left(\frac{\alpha}{2}\right)$$

$$f = R \cdot \left(1 - \cos\frac{\alpha}{2}\right)$$

$$L_D = \frac{\pi \cdot R \cdot \alpha}{180}$$



### TYPES OF CURVING

#### Mechanical curving

Curved profile sheet: curved profile sheet obtained from a straight profile sheet.

A curved profile sheet can come in two forms:

- Smooth curved profile plate
- Curved profile plate by notching

## CURVING - GENERAL POINTS

### SMOOTH CURVED RIBBED SHEET

Curved profile sheet obtained by rolling on a rolling machine

R: curving radius

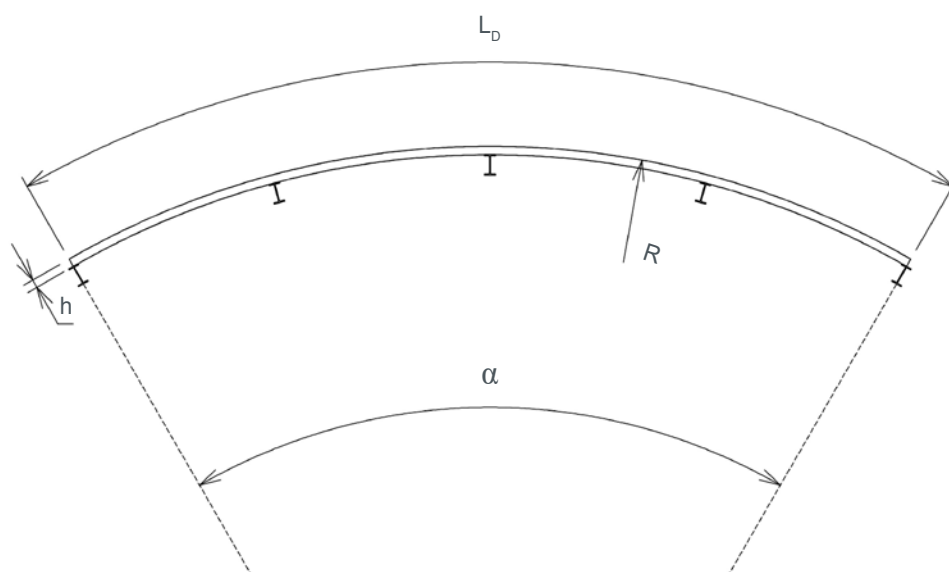
$L_D$ : total developed length of the curved sheet

h: height of main ribs

$$L_D = \frac{\pi \cdot R \cdot \alpha}{180}$$

Performance of smooth curved roof profiles:

$$L_{\text{curved}} = 0.75 \cdot L_{\text{straight}}$$



### CURVED RIBBED PLATE BY NOTCHING

Curved profile plate by notching obtained by pressing

R: curving radius

$L_D$ : total developed length of the curved sheet

A, B: straight overhangs

C: curved developed length

h: height of main ribs

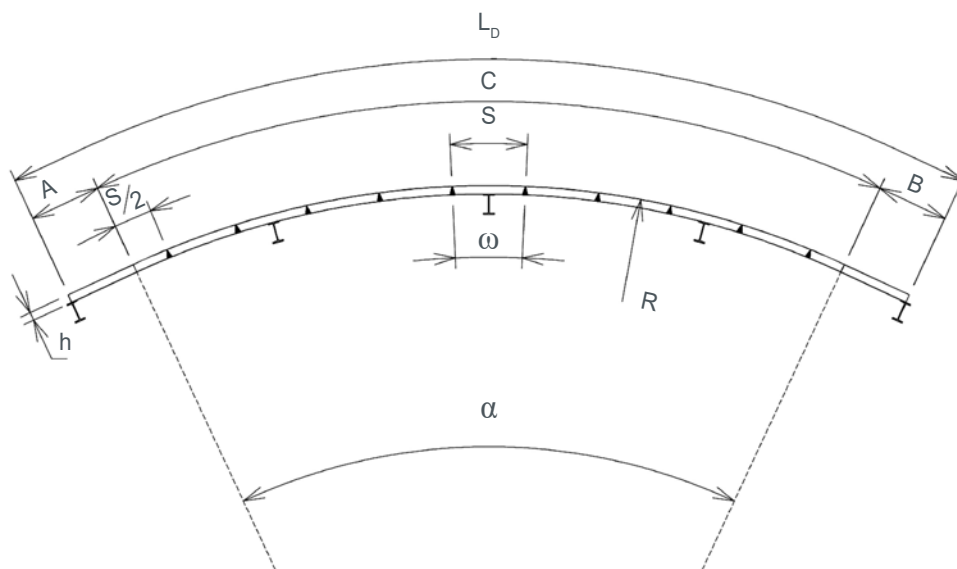
S: distance between centres of 2 successive notches

$\omega$ : angle between 2 successive notches

$$S = \frac{\pi \cdot R \cdot \omega}{180}$$

Performance of prebent notched roof profiles:

$$L_{\text{curved}} = 0.60 \cdot L_{\text{straight}}$$



### NATURAL CURVING (PROFILE PLATE BENT ON INSTALLATION)

Straight profile plate which adopts the shape of the framework during fixing on supports.

This installation mode causes internal stresses which reduce the profile performances. The minimum curve radius thus depends on the targeted load and the span.

The table below provides the minimum radius value for roof profiles (thickness equal to 0.75 mm) for a maximum load of 75 daN/m<sup>2</sup> and a span equal to 80 % of the straight profile span.

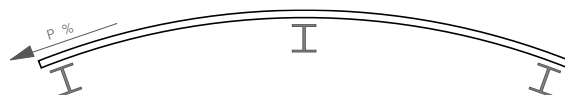
| PROFILE         | COVEO 3.35 | COVEO 3.39 | COVEO 3.45 | COVEO 4.35 | COVEO 4.37 | COVEO 4.40 | COVEO 850 | COVEO 1030 |
|-----------------|------------|------------|------------|------------|------------|------------|-----------|------------|
| Min. radius (m) | 87         | 91         | 95         | 78         | 79         | 103        | 124       | 35         |



## CURVING - GENERAL POINTS

### MINIMUM SLOPES AT THE GUTTER

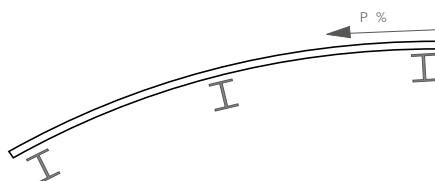
Minimum slope at the gutter of a curved roof profile with just one sheet covering the two slopes.



| HEIGHT OF RIBS (h in mm) | CLIMATIC ZONES |         |          |
|--------------------------|----------------|---------|----------|
|                          | Zone I         | Zone II | Zone III |
| $h \geq 35$              | 5 %            | 5 %     | 5 %      |
| $h < 35$                 | 7 %            | 7 %     | 15 %     |

### MINIMUM SLOPES AT RIDGE

Minimum slope at the ridge of a curved roof profile with just one slope.



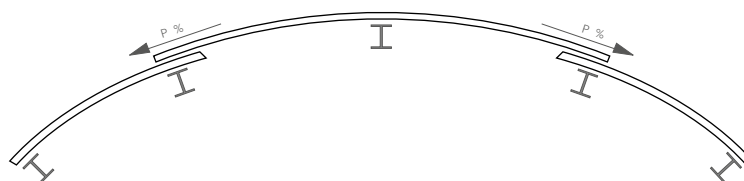
| HEIGHT OF RIBS (h in mm) | CLIMATIC ZONES |         |          |
|--------------------------|----------------|---------|----------|
|                          | Zone I         | Zone II | Zone III |
| $h \geq 35$              | 5 %            | 5 %     | 5 %      |
| $h < 35$                 | 7 %            | 7 %     | 15 %     |

### SPECIFIC FEATURES TO TAKE INTO ACCOUNT

| SLOPES      | OBLIGATION DURING INSTALLATION          |
|-------------|---|
| 5 % to 7 %  | profile with notched up edge and filler |
| 7 % to 10 % | profile with raised edge                |
| > 10 %      | no specificity                          |

### MINIMUM PITHCES ON MULTIPLE SHEETS

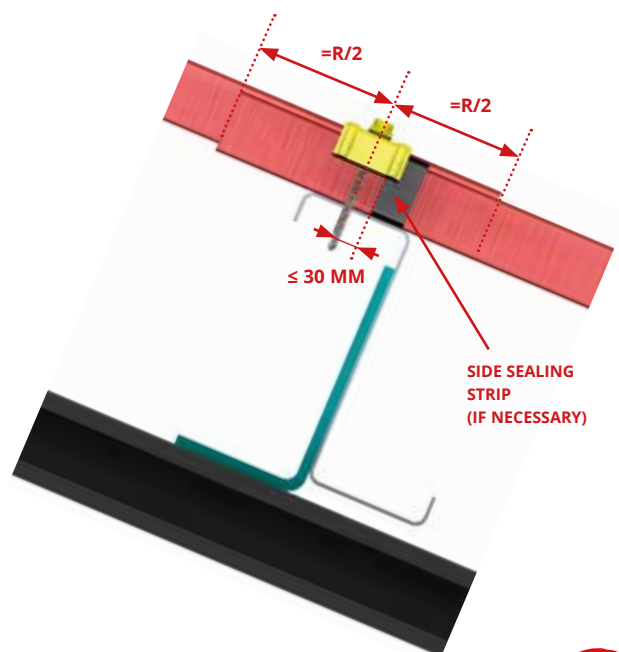
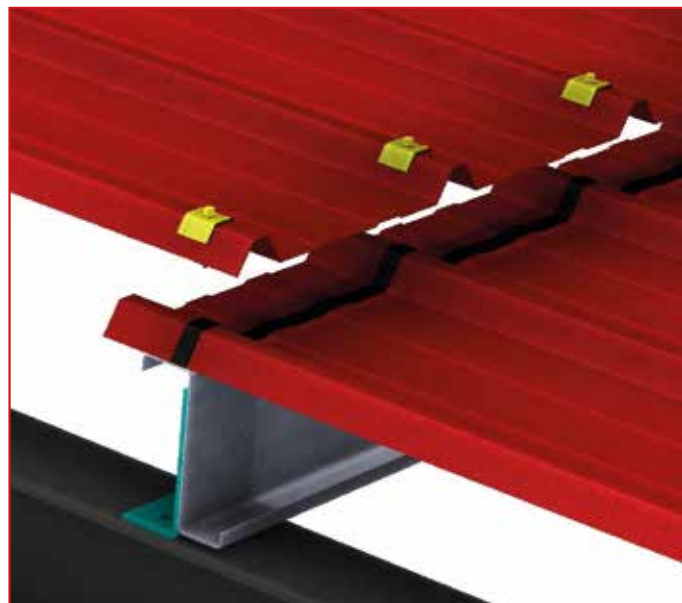
Minimum slope at the end laps of a curved roof profile with several plates.



| HEIGHT OF RIBS (h in mm) | CLIMATIC ZONES |         |          |
|--------------------------|----------------|---------|----------|
|                          | Zone I         | Zone II | Zone III |
| $h \geq 35$              | 7 %            | 7 %     | 7 %      |
| $h < 35$                 | 7 %            | 7 %     | 15 %     |

## CURVING - SPECIFIC FEATURES

### END LAPS



### MINIMUM LENGTHS TO ADOPT FOR END LAPS

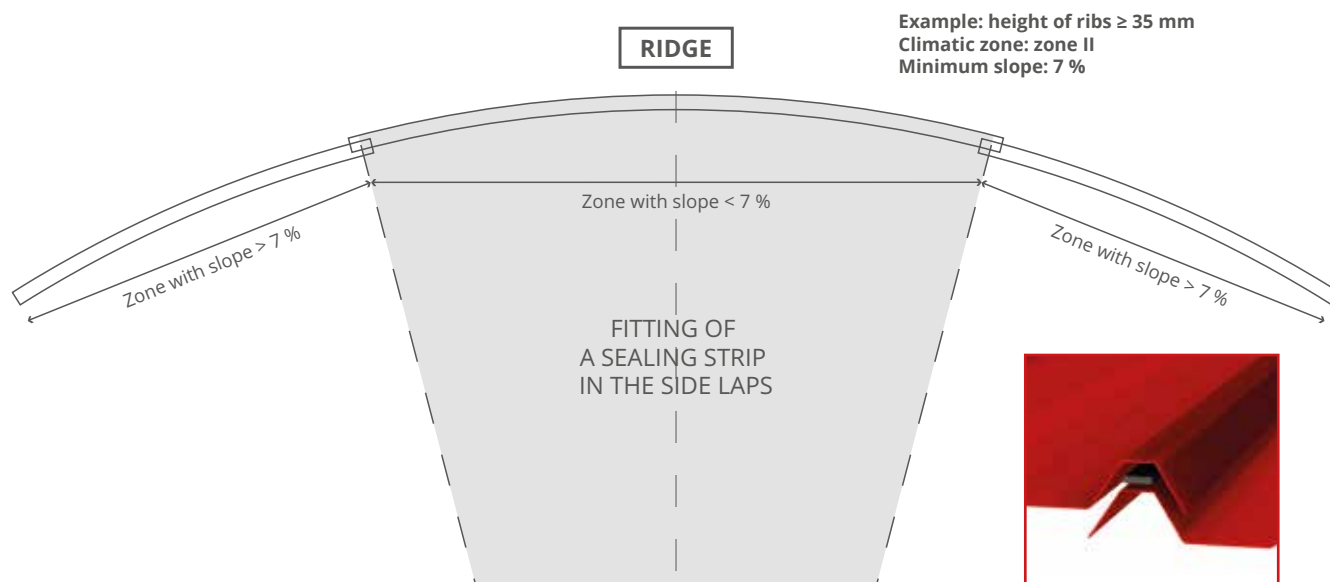
| SLOPE $s$ (%)   | VALUE $R$ (mm)        | NUMBER OF S.S. a) |
|-----------------|-----------------------|-------------------|
| $7 \leq s < 15$ | $150 \leq R \leq 200$ | 1                 |
| $s \geq 15$     | $150 \leq R < 200$    | 1                 |
|                 | $R \geq 200$          | 0                 |

a) S.S.: sealing strip

The sealing strip must comply with Standard NF P 30-305

### SIDE LAPS

For two-sided roofs, the sealing strips must be installed on the side laps from the ridge up to the roof level with a slope equal to the values indicated in the table of minimum slopes for profiles with a rib height less than or equal to 35 mm or curved notched profiles.

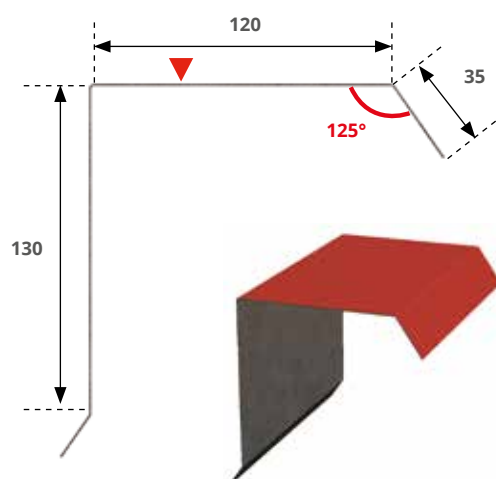


## ROOF FLASHINGS

Standard thickness 0.75 mm pre-painted 25 or 35  $\mu\text{m}$ ,  $\mu\text{m}$ , lengths 2100, 3000 or 4000 mm

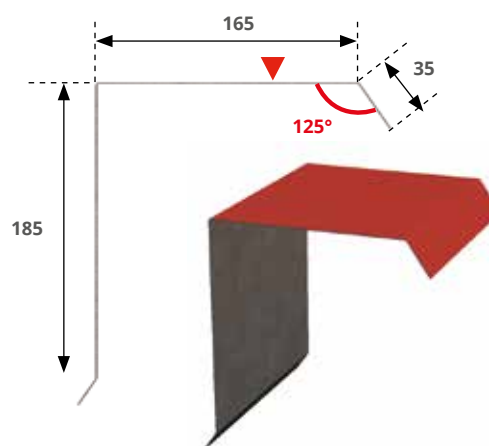
## Edge strip 1

Item code: PLIBR1



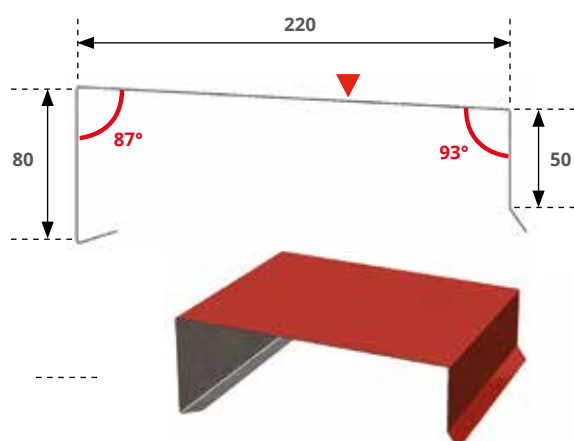
## Edge strip 2

Item code: PLIBR2



## Coping

Item code: PLIACRO



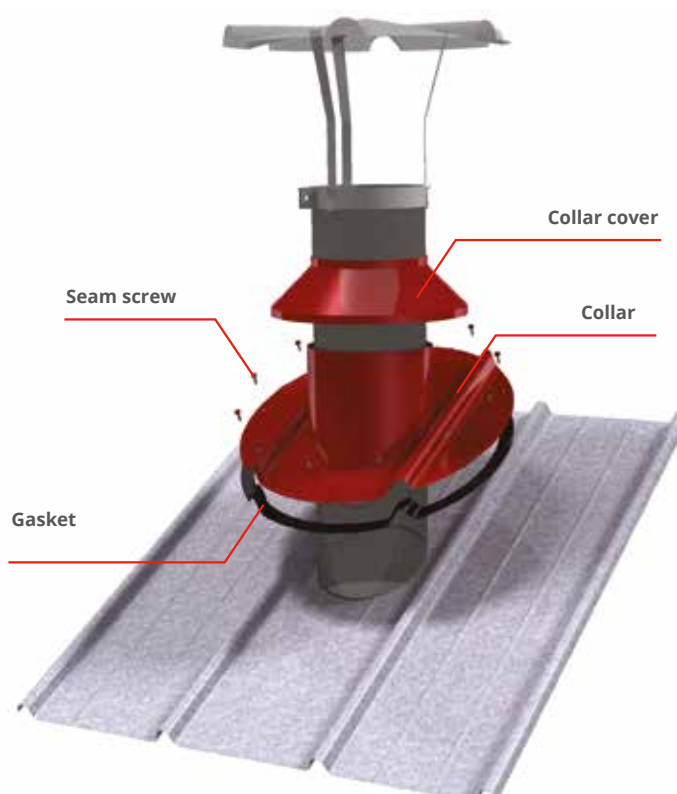
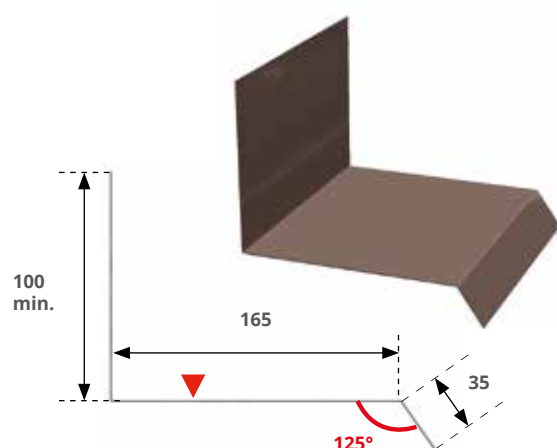
## Chinese hat mounting plate

Item code: CHAPEAUCHI

Item code: PD

## Headwall edge flashing

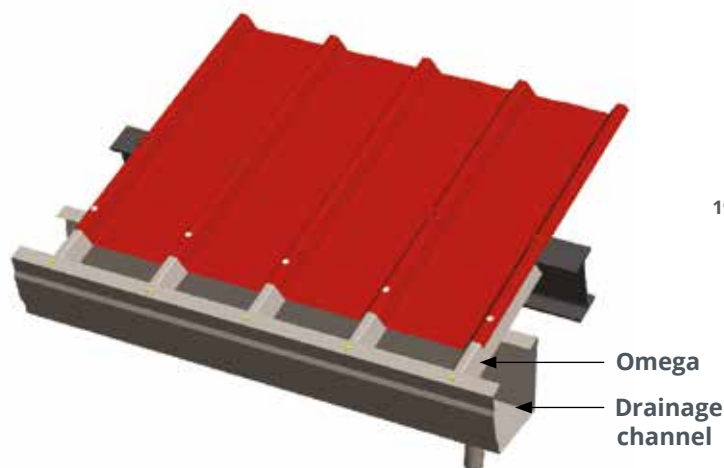
Item code: PLIRCM



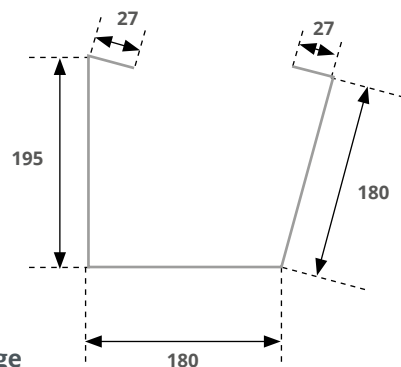
## ROOF FLASHINGS

### Prepainted gutter channel

Standard thickness 0.75 mm painted 25 µm



**Gutter** Item code: PLICLP



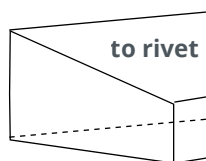
### Accessories:

Standard thickness 0.75 mm painted 25 µm

Thickness 1.5 mm galva

#### Bottom

Item code: PLICLPFOND



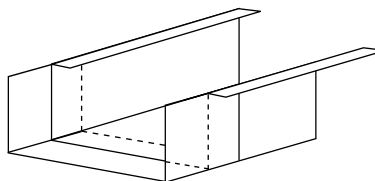
#### Omega

Item code: PLICLPOMEGA



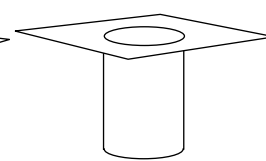
#### Butt strap

Item code: PLICLPECLIS



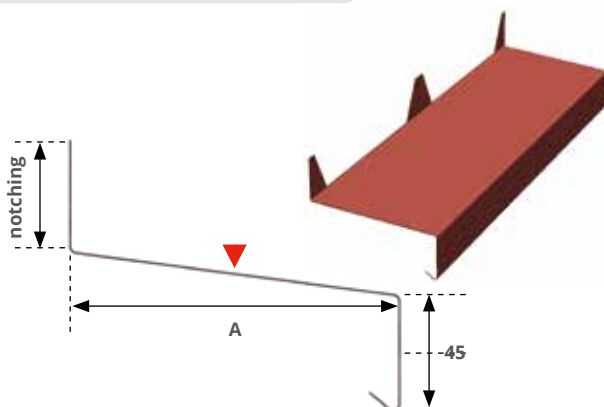
#### Gutter outlet Ø 120

Item code: PLICLPNAISS



### Toothed edge filler

Standard thickness 0.75 mm painted 25 µm, lengths 2100 mm

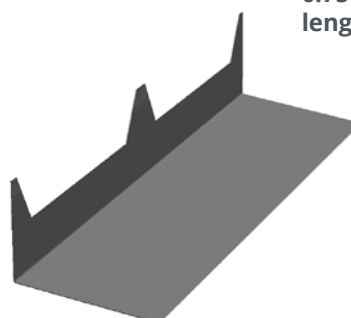
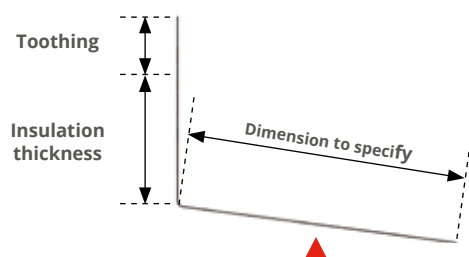


| Profile     | Lengths     |            | A (mm) | Item Code  |
|-------------|-------------|------------|--------|------------|
|             | Useful (mm) | Total (mm) |        |            |
| COVEO 3.45  | 2000        | 2100       | 139    | PLICBD345  |
| COVEO 3.35  |             |            | 149    | PLICBD335  |
| COVEO 3.39  |             |            | 145    | PLICBD339  |
| COVEO 4.40  |             |            | 144    | PLICBD440  |
| COVEO 850   |             |            | 155    | PLICBD850  |
| COVEO 1030  |             |            | 159    | PLICBD1030 |
| COVEO 3.45R |             |            | 139    | PLICBD345R |

### Toothed filler for sandwich panel

Item code: PLICBDPS

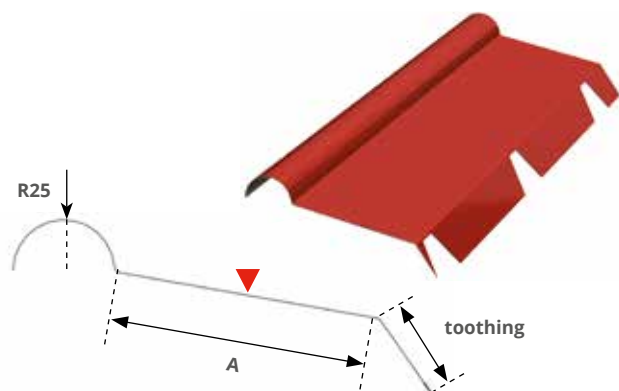
Standard thickness 0.75 mm painted 25 µm lengths 2100 mm



## ROOF FLASHINGS

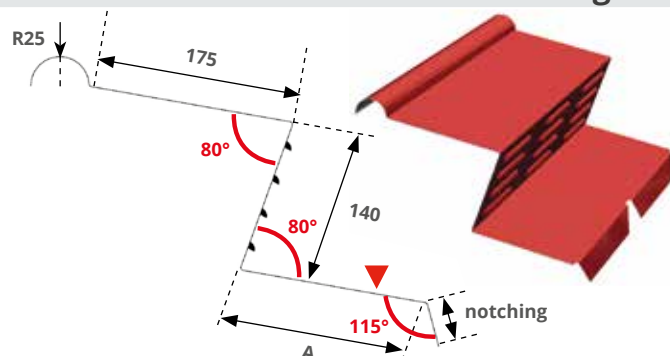
Standard thickness 0.75 mm  
pre-painted 25 or 35 µm, lengths 2100 mm

### 1/2 toothed ridge adaptable to the slope



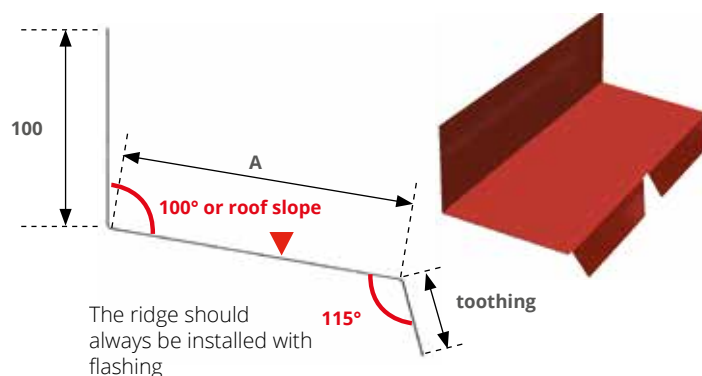
| Profile     | Lengths     |            | A (mm) | Item Code   |
|-------------|-------------|------------|--------|-------------|
|             | Useful (mm) | Total (mm) |        |             |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 180    | PLIFABC345  |
| COVEO 3.35  |             |            | 190    | PLIFABC335  |
| COVEO 3.39  |             |            | 186    | PLIFABC339  |
| COVEO 4.40  |             |            | 185    | PLIFABC440  |
| COVEO 850   |             |            | 196    | PLIFABC850  |
| COVEO 1030  |             |            | 200    | PLIFABC1030 |
| COVEO 3.45R |             |            | 180    | PLIFABC345R |
| VENTILEO    |             |            | 198    | PLIFABC827  |

### 1/2 toothed ridge adaptable to the slope with ventilated flange\*



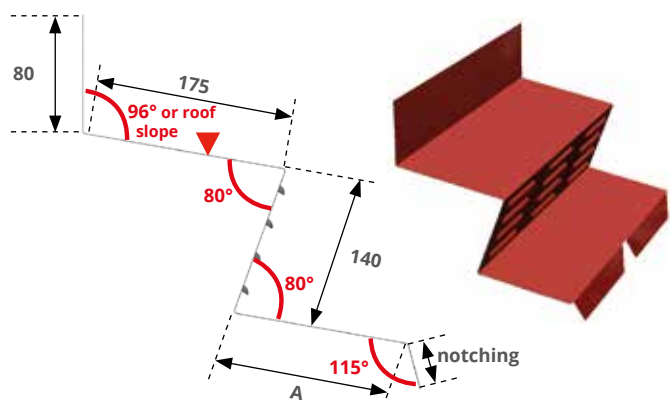
| Profile     | Lengths     |            | A (mm) | Item Code    |
|-------------|-------------|------------|--------|--------------|
|             | Useful (mm) | Total (mm) |        |              |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 150    | PLIFABCV345  |
| COVEO 3.35  |             |            | 160    | PLIFABCV335  |
| COVEO 3.39  |             |            | 156    | PLIFABCV339  |
| COVEO 4.40  |             |            | 155    | PLIFABCV440  |
| COVEO 850   |             |            | 166    | PLIFABCV850  |
| COVEO 1030  |             |            | 170    | PLIFABCV1030 |
| COVEO 3.45R |             |            | 150    | PLIFABCV345R |
| VENTILEO    |             |            | 168    | PLIFABCV827  |

### Toothed headwall ridge



| Profile     | Lengths     |            | A (mm) | Item Code   |
|-------------|-------------|------------|--------|-------------|
|             | Useful (mm) | Total (mm) |        |             |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 155    | PLIFCMC345  |
| COVEO 3.35  |             |            | 165    | PLIFCMC335  |
| COVEO 3.39  |             |            | 161    | PLIFCMC339  |
| COVEO 4.40  |             |            | 160    | PLIFCMC440  |
| COVEO 850   |             |            | 171    | PLIFCMC850  |
| COVEO 1030  |             |            | 175    | PLIFCMC1030 |
| COVEO 3.45R |             |            | 155    | PLIFCMC345R |
| VENTILEO    |             |            | 173    | PLIFCMC827  |

### Ventilated toothed headwall ridge\*



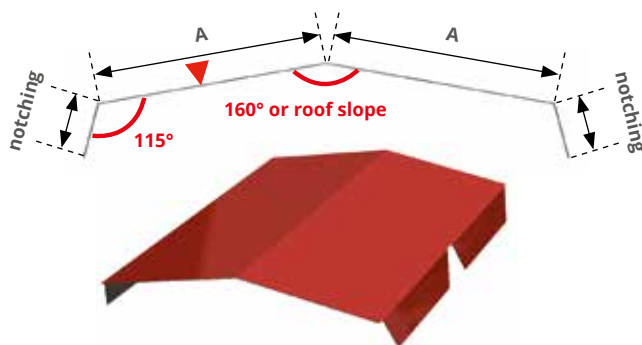
| Profile     | Lengths     |            | A (mm) | Item Code    |
|-------------|-------------|------------|--------|--------------|
|             | Useful (mm) | Total (mm) |        |              |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 150    | PLIFCMCV345  |
| COVEO 3.35  |             |            | 160    | PLIFCMCV335  |
| COVEO 3.39  |             |            | 156    | PLIFCMCV339  |
| COVEO 4.40  |             |            | 155    | PLIFCMCV440  |
| COVEO 850   |             |            | 166    | PLIFCMCV850  |
| COVEO 1030  |             |            | 170    | PLIFCMCV1030 |
| COVEO 3.45R |             |            | 150    | PLIFCMCV345R |
| VENTILEO    |             |            | 168    | PLIFCMCV827  |

\* Ventilation section: 194 cm<sup>2</sup>/linear metre



## ROOF FLASHINGS

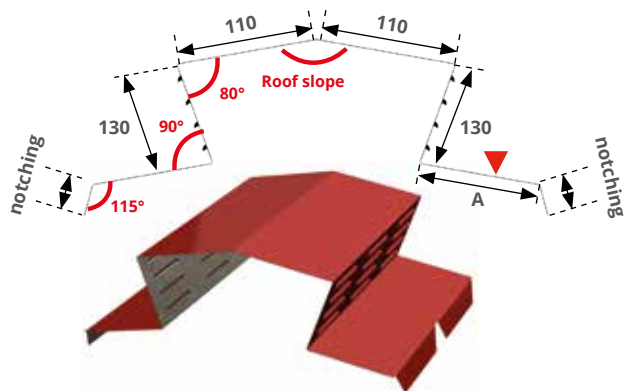
### Toothed double ridge cap



Standard thickness 0.75 mm  
pre-painted 25 or 35 µm, lengths 2100 mm

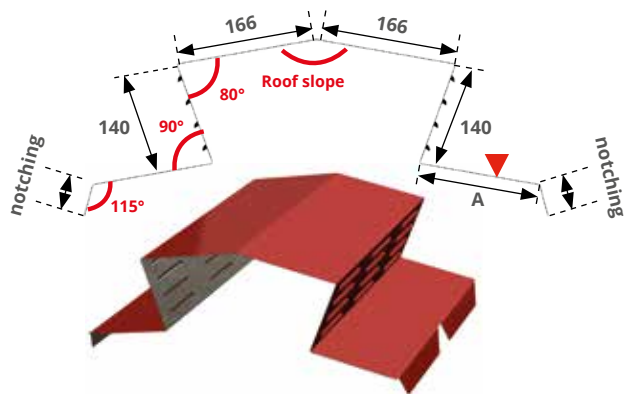
| Profile     | Lengths     |            | A (mm) | Item Code  |
|-------------|-------------|------------|--------|------------|
|             | Useful (mm) | Total (mm) |        |            |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 155    | PLIFDC345  |
| COVEO 3.35  |             |            | 165    | PLIFDC335  |
| COVEO 3.39  |             |            | 161    | PLIFDC339  |
| COVEO 4.40  |             |            | 160    | PLIFDC440  |
| COVEO 850   |             |            | 171    | PLIFDC850  |
| COVEO 1030  |             |            | 175    | PLIFDC1030 |
| COVEO 3.45R |             |            | 155    | PLIFDC345R |
| VENTILEO    |             |            | 173    | PLIFDCV827 |

### Eco ventilated toothed double ridge\*



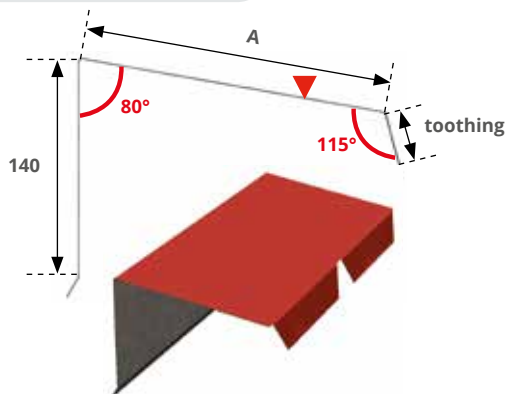
| Profile     | Lengths     |            | A (mm) | Item Code      |
|-------------|-------------|------------|--------|----------------|
|             | Useful (mm) | Total (mm) |        |                |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 120    | PLIFDCV345ECO  |
| COVEO 3.35  |             |            | 130    | PLIFDCV335ECO  |
| COVEO 3.39  |             |            | 126    | PLIFDCV339ECO  |
| COVEO 4.40  |             |            | 125    | PLIFDCV440ECO  |
| COVEO 850   |             |            | 136    | PLIFDCV850ECO  |
| COVEO 1030  |             |            | 140    | PLIFDCV1030ECO |
| COVEO 3.45R |             |            | 120    | PLIFDCV345RECO |
| VENTILEO    |             |            | 138    | PLIFDCV827ECO  |

### Ventilated toothed double ridge\*



| Profile     | Lengths     |            | A (mm) | Item code   |
|-------------|-------------|------------|--------|-------------|
|             | Useful (mm) | Total (mm) |        |             |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 149    | PLIFDCV345  |
| COVEO 3.35  |             |            | 159    | PLIFDCV335  |
| COVEO 3.39  |             |            | 155    | PLIFDCV339  |
| COVEO 4.40  |             |            | 154    | PLIFDCV440  |
| COVEO 850   |             |            | 165    | PLIFDCV850  |
| COVEO 1030  |             |            | 169    | PLIFDCV1030 |
| COVEO 3.45R |             |            | 149    | PLIFDCV345R |
| VENTILEO    |             |            | 167    | PLIFDCV827  |

### Single toothed ridge



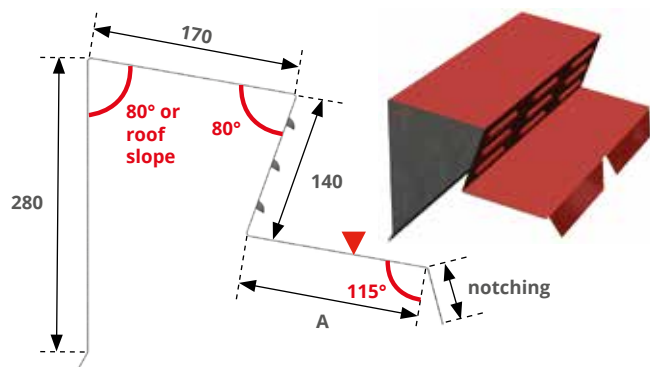
| Profile     | Lengths     |            | A (mm) | Item Code  |
|-------------|-------------|------------|--------|------------|
|             | Useful (mm) | Total (mm) |        |            |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 200    | PLIFSC345  |
| COVEO 3.35  |             |            | 210    | PLIFSC335  |
| COVEO 3.39  |             |            | 206    | PLIFSC339  |
| COVEO 4.40  |             |            | 205    | PLIFSC440  |
| COVEO 850   |             |            | 216    | PLIFSC850  |
| COVEO 1030  |             |            | 220    | PLIFSC1030 |
| COVEO 3.45R |             |            | 200    | PLIFSC345R |
| VENTILEO    |             |            | 218    | PLIFSCV827 |

\* Ventilation section: 194 cm<sup>2</sup>/linear metre

## ROOF FLASHINGS

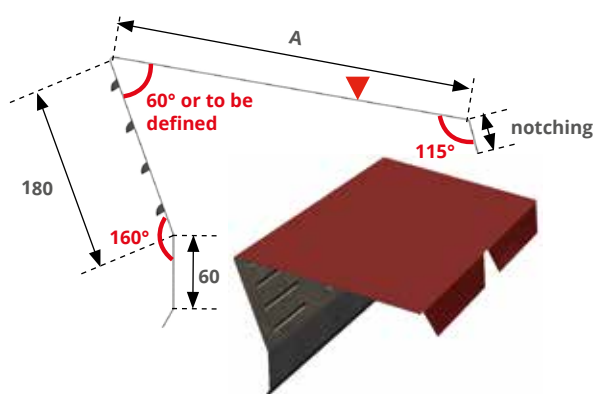
Standard thickness 0.75 mm pre-painted 25 or 35  $\mu$ m, lengths 2100 mm

### Single ventilated toothed ridge cap\*



| Profile     | Lengths     |            | A (mm) | Item Code   |
|-------------|-------------|------------|--------|-------------|
|             | Useful (mm) | Total (mm) |        |             |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 145    | PLIFSCV345  |
| COVEO 3.35  |             |            | 155    | PLIFSCV335  |
| COVEO 3.39  |             |            | 151    | PLIFSCV339  |
| COVEO 4.40  |             |            | 150    | PLIFSCV440  |
| COVEO 850   |             |            | 161    | PLIFSCV850  |
| COVEO 1030  |             |            | 165    | PLIFSCV1030 |
| COVEO 3.45R |             |            | 145    | PLIFSCV345R |
| VENTILEO    |             |            | 163    | PLIFSCV827  |

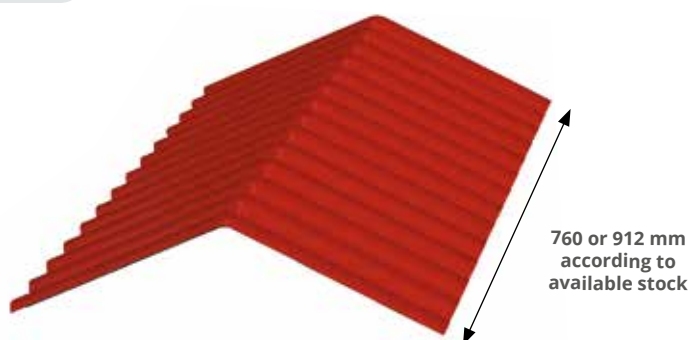
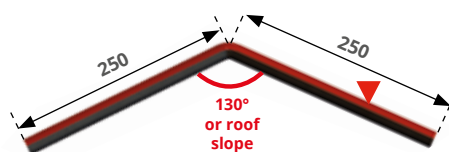
### Single toothed ridge cap with rear ventilation\*



| Profile     | Lengths     |            | A (mm) | Item Code    |
|-------------|-------------|------------|--------|--------------|
|             | Useful (mm) | Total (mm) |        |              |
| COVEO 3.45  | 2000 mm     | 2100 mm    | 298    | PLIFSCVA345  |
| COVEO 3.35  |             |            | 308    | PLIFSCVA335  |
| COVEO 3.39  |             |            | 304    | PLIFSCVA339  |
| COVEO 4.40  |             |            | 303    | PLIFSCVA440  |
| COVEO 850   |             |            | 314    | PLIFSCVA850  |
| COVEO 1030  |             |            | 318    | PLIFSCVA1030 |
| COVEO 3.45R |             |            | 298    | PLIFSCVA345R |
| VENTILEO    |             |            | 316    | PLIFSCVA827  |

### Corrugated double ridge for SINUS profile

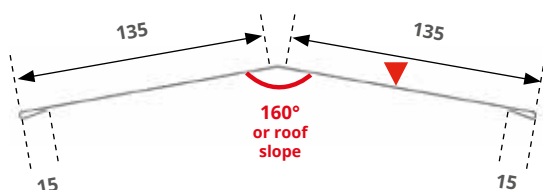
Item code: PLIFDSINUS18 / PLIFDSINUS25



### Flat ridge

Item code: PLIFF

Standard thickness 0.75 mm painted 25  $\mu$ m, lengths 2100, 3000 or 4000 mm



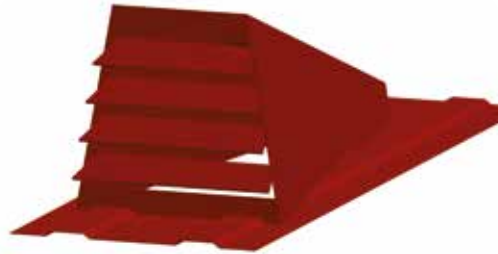
\* Ventilation section: 194 cm<sup>2</sup>/linear metre

## ROOF FLASHINGS

## Ventilation tile

**GALVA** - Item code: *PLICHATGAL*  
 Post painted - Item code: *PLICHATLAQ*

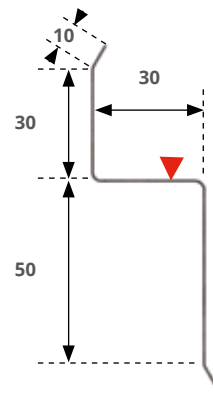
Ventilation capacity 230 cm<sup>2</sup> in stock,  
 400 to 800 cm<sup>2</sup> on consultation



## Headwall flashing

Item code: *PLISOLIN*

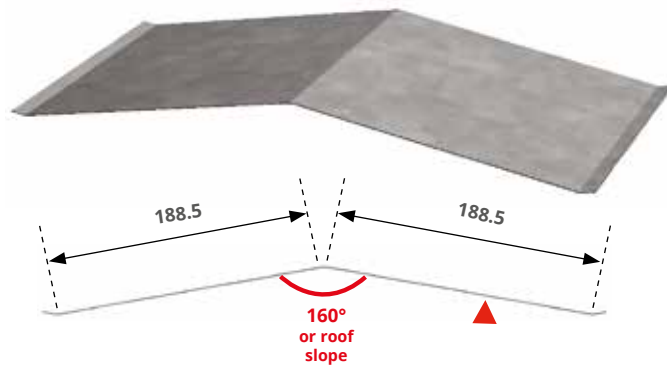
Standard thickness 0.75 mm painted 25 µm, lengths 2100, 3000 or 4000 mm



## Under-ridge

Item code: *PLISF*

Standard thickness 0.75 mm pre-painted 25 or 35 µm,  
 lengths 2100, 3000 or 4000 mm



## Velux outlet

Item code: *PLISV*

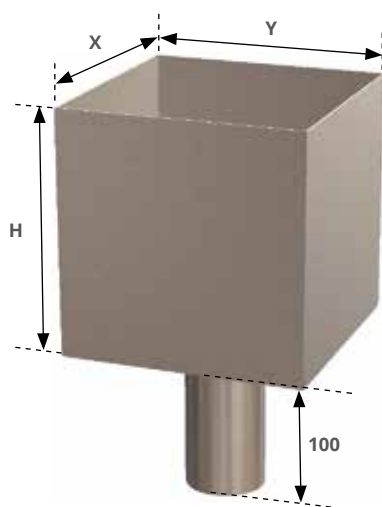


## WELDED ROOF ACCESSORIES

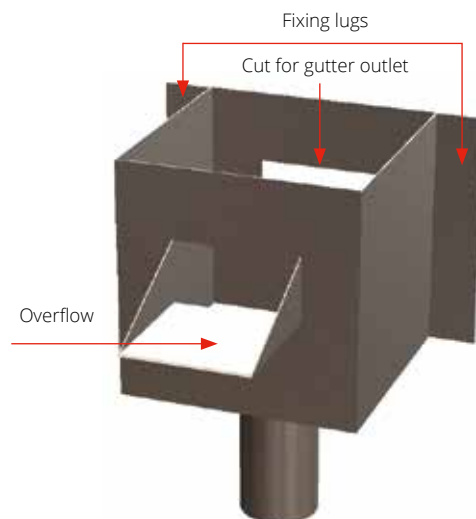
### Water box galva 1.5 or 2 mm

Item code: PLIBEG15

Item code: PLIBEG20



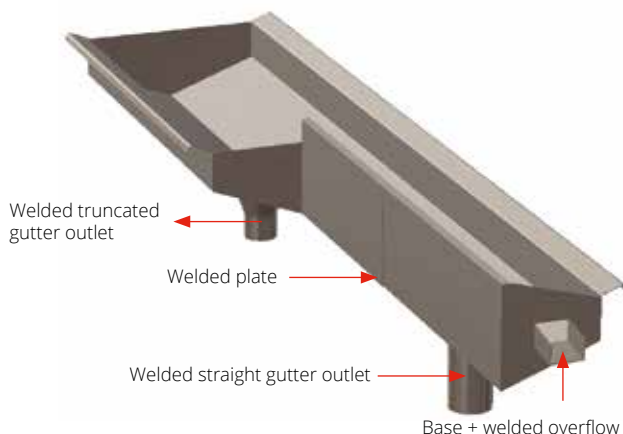
Post-painting available on request



### Complete galvanised drainage channel

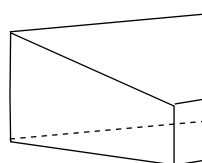
Options: Lifting rings

Item code: PLICGP



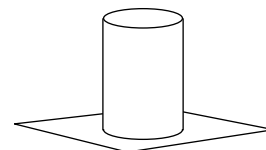
#### Bottom

Item code: PLICGPFOND



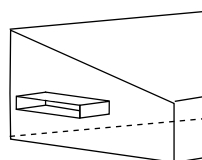
#### Gutter outlet diameter to be specified

Item code: PLICGPNAISS

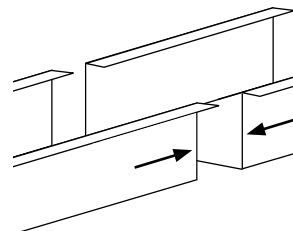


#### Base + overflow

Item code: PLICGPFONDTP

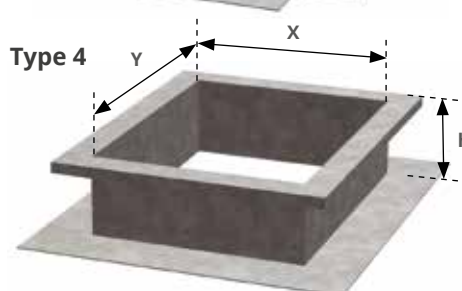
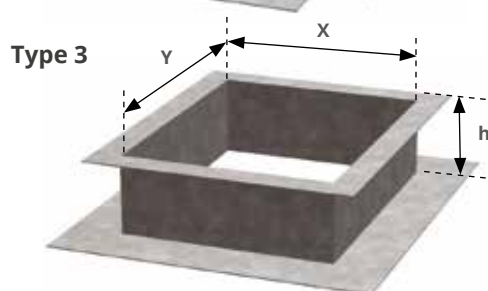
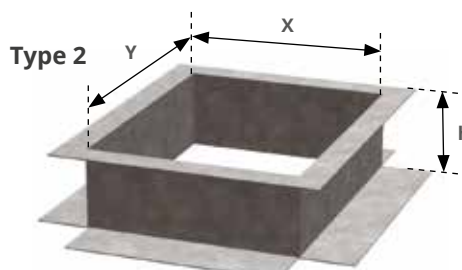
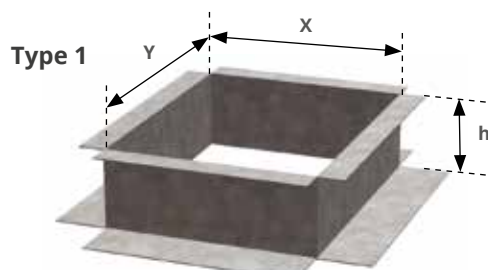


#### Welding



### Welded curbs in galvanised sheet metal

Item code: CSG



Galva  
1.5 mm PLICSG15  
2 mm PLICSG20  
3 mm PLICSG30

Please provide your dimensions when ordering.

Contact us for roof outlet on reconstituted profile

# **BACACIER®**

AT YOUR SERVICE



**www.bacacier.com**

*Discover all our products  
and services online*



**open@bacacier.com**

*Comitted to respond  
within 48 hours*