

INSTALLATION BP2.EU

MANUAL

COMPACT SERIES

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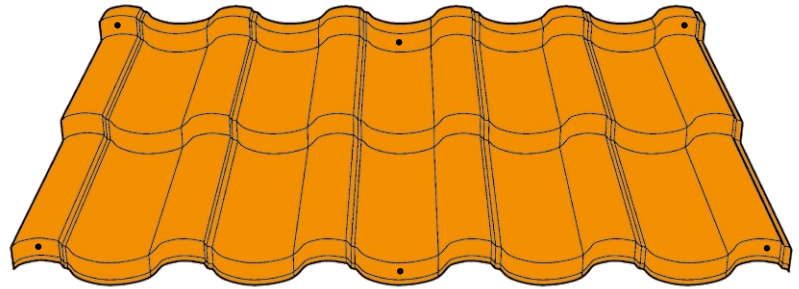
THIS MANUAL IS AN ILLUSTRATIVE MATERIAL AND DOES NOT RELEASE THE CONTRACTORS FROM THE OBLIGATION TO OBSERVE THE PRINCIPLES OF BEST ROOFING PRACTICES.

1. Technical specifications of COMPACT SERIES metal roofing tiles

Technical parameters [in mm]

Effective width	1100
Total width	1187
Thickness of steel sheet	0,5
Total profile height	57/67
Height of forming	30/40
Length of module	350
Weight	~ 4,5 kg/m ²
Effective area (cladding) of a single sheet	0,770 m ²

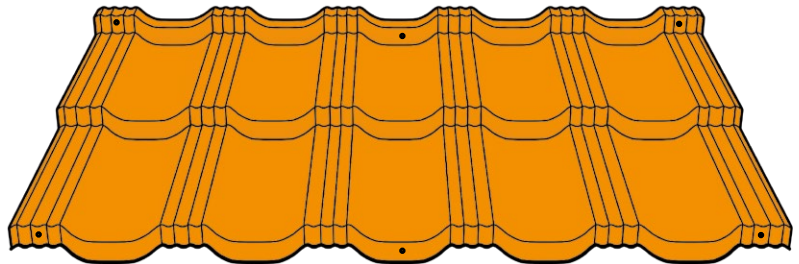
STIGMA 2.0



Technical parameters [in mm]

Effective width	1120
Total width	1206
Thickness of steel sheet	0,5
Total profile height	50/60
Height of forming	30/40
Length of module	350
Weight	~ 4,5 kg/m ²
Effective area (cladding) of a single sheet	0,784 m ²

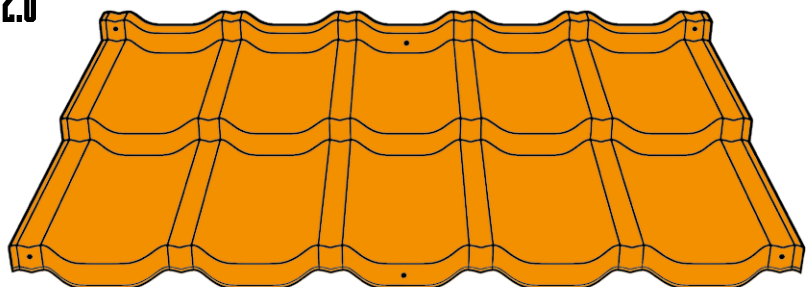
BAVARIA^{ROOF} 2.0



Technical parameters [in mm]

Effective width	1150
Total width	1212
Thickness of steel sheet	0,5
Total profile height	50/60
Height of forming	30/40
Length of module	350
Weight	~ 4,5 kg/m ²
Effective area (cladding) of a single sheet	0,805 m ²

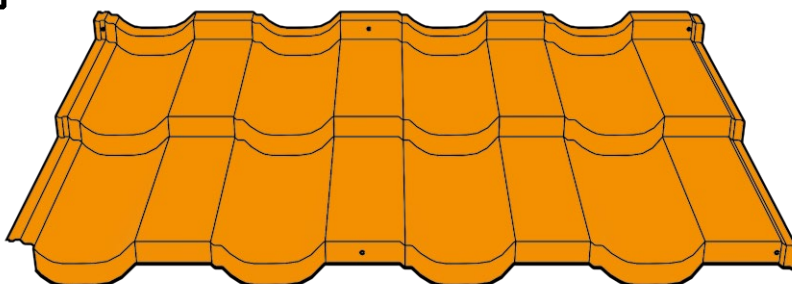
GAMMA 2.0



Technical parameters [in mm]

Effective width	1155
Total width	1200
Thickness of steel sheet	0,5
Total profile height	56/66
Height of forming	30/40
Length of module	350
Weight	~ 4,5 kg/m ²
Effective area (cladding) of a single sheet	0,809 m ²

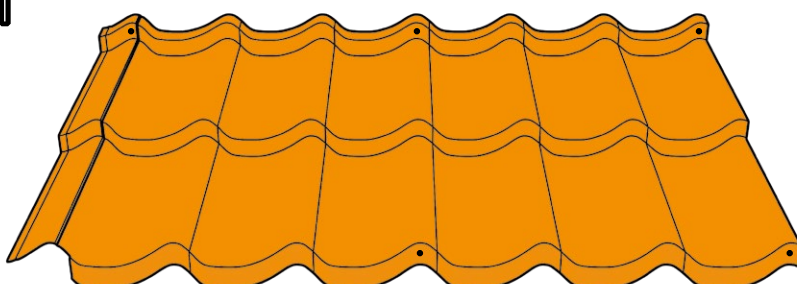
HETA 2.0



Technical parameters [in mm]

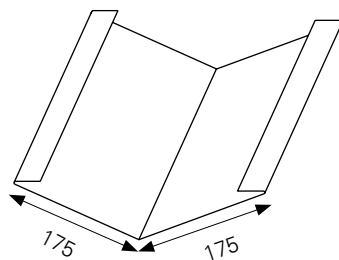
Effective width	1100
Total width	1183
Thickness of steel sheet	0,5
Total profile height	53/58
Height of forming	30/35
Length of module	350
Weight	~ 4,5 kg/m ²
Effective area (cladding) of a single sheet	0,770 m ²

ALFA 2.0

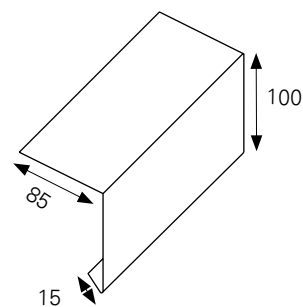


2. Flashing system

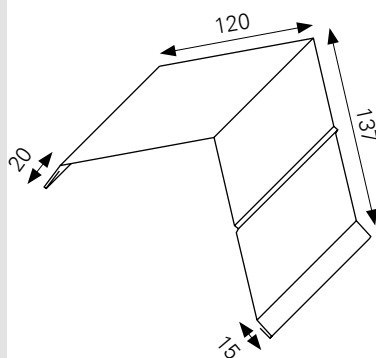
The flashings are made from sheets available in the same range of coatings and colours as the metal roofing tiles, trapezoidal sheets and roof panels we produce.



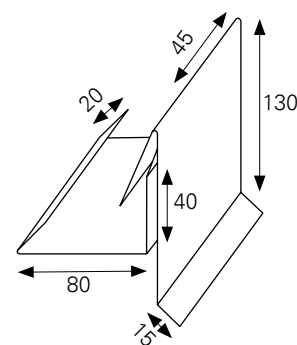
GUTTER BASKET



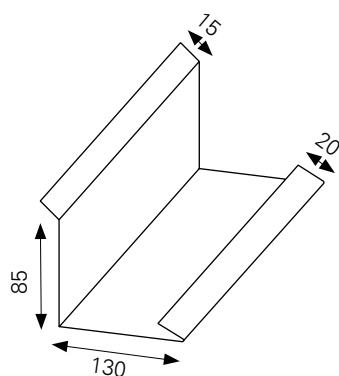
OVER-GUTTER STRIP



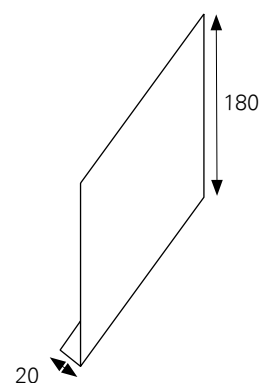
WIND BRACE I



WIND BRACE II



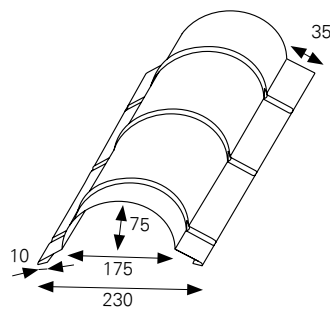
NEAR-WALL WORKING II



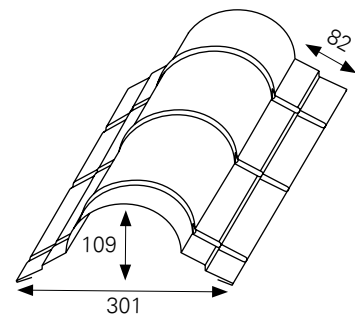
UNDER-GUTTER STRIP / WIND BRACE EXTENSION



Standard flashing of the following dimensions: 2 m long and 0.5 mm thick. Non-standard flashing of length up to 8 m and thickness 2 mm.

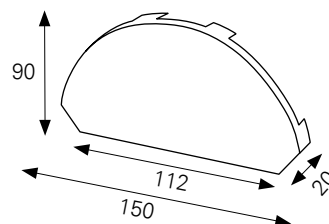


BARREL-SHAPED RIDGE TILE

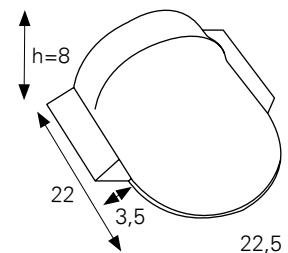


WIDE RIDGE TILE

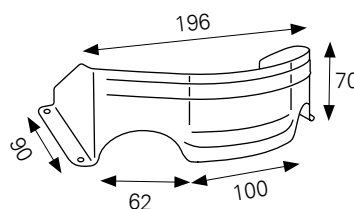
The flashings are made from sheets available in the same range of coatings and colours as the metal roofing tiles, trapezoidal sheets and roof panels we produce.



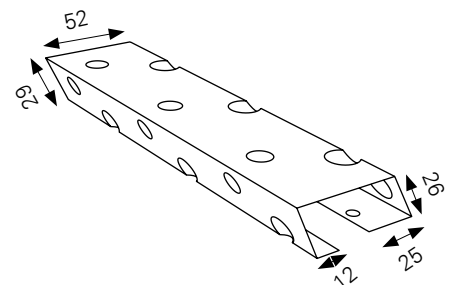
BOTTOM OF THE TRAPEZOID RIDGE TILE



HIP TILE ENDING



SNOW GUARDS



UNIVERSAL VENTILATION FLASHING / STARTING PROFILE



Standard flashing of the following dimensions: 2 m long and 0.5 mm thick. Standard flashing of the following dimensions: 2m long and 0.5mm thick. Non-standard flashing up to 8m long and 2mm thick adapted to all rib heights (30-40mm).

3. General recommendations

Transport

Compact metal roofing tiles are delivered on non-returnable pallets. No specialist transport is necessary to deliver the ordered material. However, during transport, it is necessary to fix the material so that it cannot move freely. Light, two-modular sheets allow the transport to the installation place (e.g. using a stairwell) by one person and without the need to use any specialist equipment.

Storage

Compact metal roofing tiles must be kept in a dry and ventilated warehouse. In case of long-term storage, the stacks must be placed on a sloped surface in order to enable moisture to evaporate or drain. Distance of a stored package from the ground should be at least 14cm. Maximum storage time is 6 months since the production date. However, after 2 weeks since the production date, remove the foil covering the pallet in order to provide air circulation between the sheets.



Important - damage on the surface of metal panels as a result of moisture dismisses any claims.

Cutting the metal sheet

Using cutting tools that cause thermal effect (sudden increase of temperature), e.g. angular grinder, is forbidden. It causes damage to the organic and zinc coatings and thus leads to corrosion accelerated by hot filings melting into the sheet surface. To cut the sheets, use a nibbler or manual scissors if the sections are short.



Warning - one of the conditions set out in the guarantee is to protect the open cut edges of the coated sheet with lacquer.

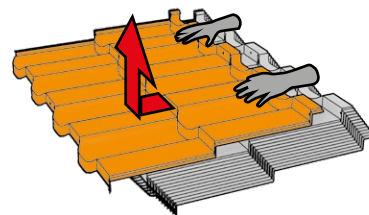
Maintenance

In case of coating damage caused during transport, installation and treatment, carefully clean the damaged surface of dirt and grease and coat the damaged area with lacquer. The edges of the roof which are not protected with lacquer may delaminate. This is a natural phenomenon and shall not constitute grounds for guarantee claims. It is recommended to control the roof every year in order to perform maintenance works.



Before starting the works, remember to write down the serial number of one of the sheets. It is necessary to fill out the guarantee form.

It is not allowed to take another sheet from the package by lifting them up directly as it may cause damage to the coating on the ribs. Before lifting the sheet, gently push it forward a few centimetres. Special caution must be taken.



Compact metal roofing tiles can be used on a roof inclination not less than 15°. In case of installation on a smaller roof inclination, call the manufacturer's technical support first.

4. Construction preparation

Compact metal roofing tiles must be installed on normally prepared base using battens and counter-battens. The installation and preparation of the base should be performed according to normal roofing procedures. It is necessary to remember about the eaves and ridge ventilation. During the installation of the compact steel roof tiles, it is necessary to apply universal ventilation flashing (**fig. 2**). It also functions as the starting profile. Before the installation, check the roof diagonals. The roof inclination slope cannot be less than 15 degrees.

The universal ventilation flashing must be installed using installation hole in the bottom flashing edge. Insert the bolts through the larger pilot hole in the top edge, as presented in the following cross-section.

FIG.1

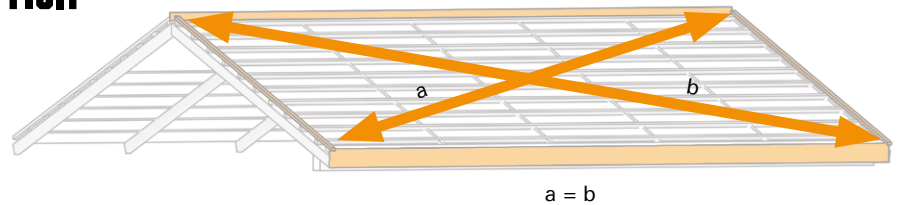
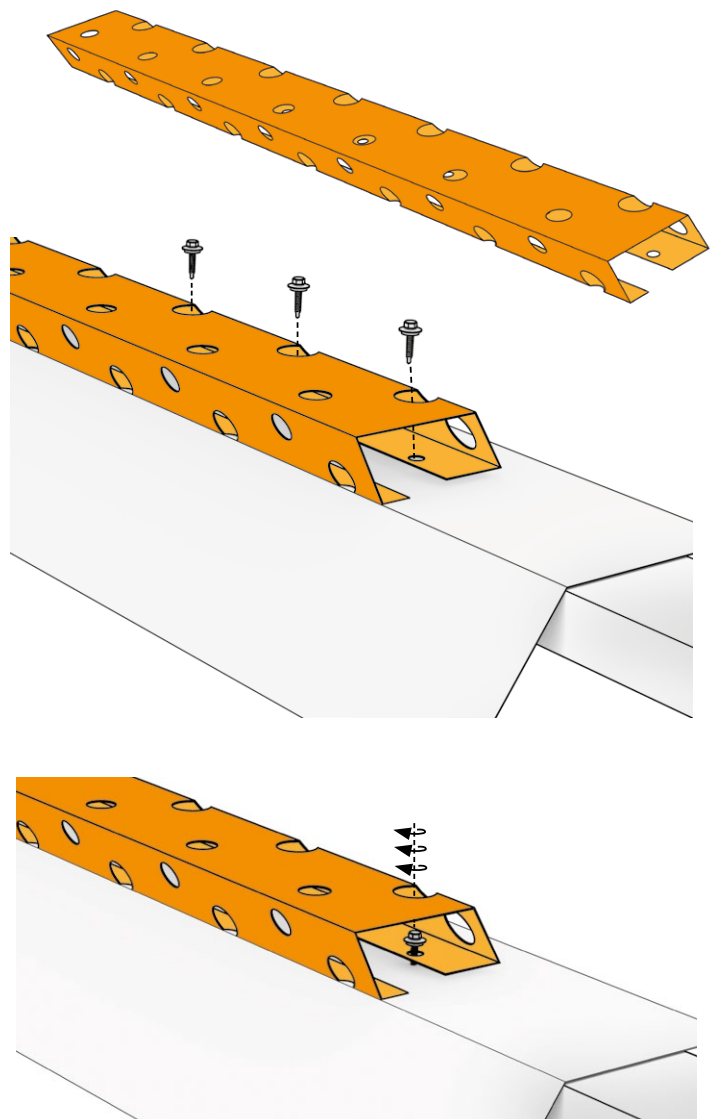


FIG.2

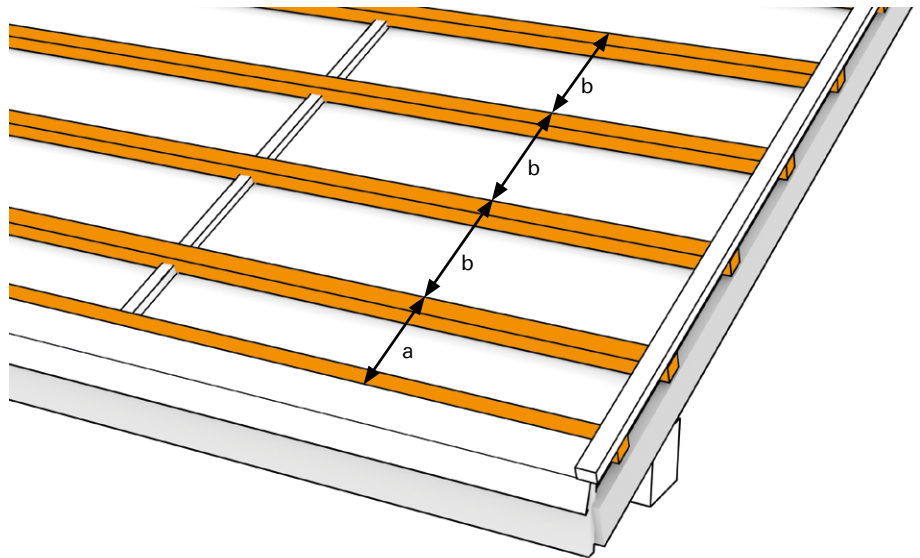


5. Battens spacing

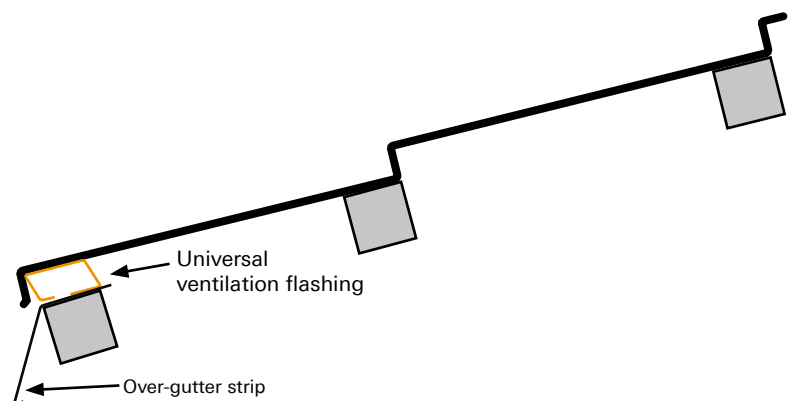
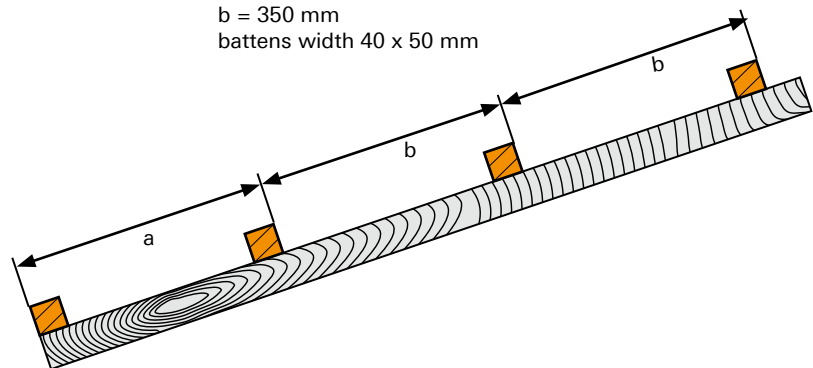
The contractor must use best efforts and be precise when installing the battens and preparing the roof for the installation of the compact metal roofing tiles. Accurate arrangement of the battens is critical and highly affects the final result. The spacing of the main battens is most important, i.e. 350mm.

Distance between the bottom edge of the first batten and the top edge of the second batten from the eaves' side should be 320mm (**see fig. 3**).

FIG.3

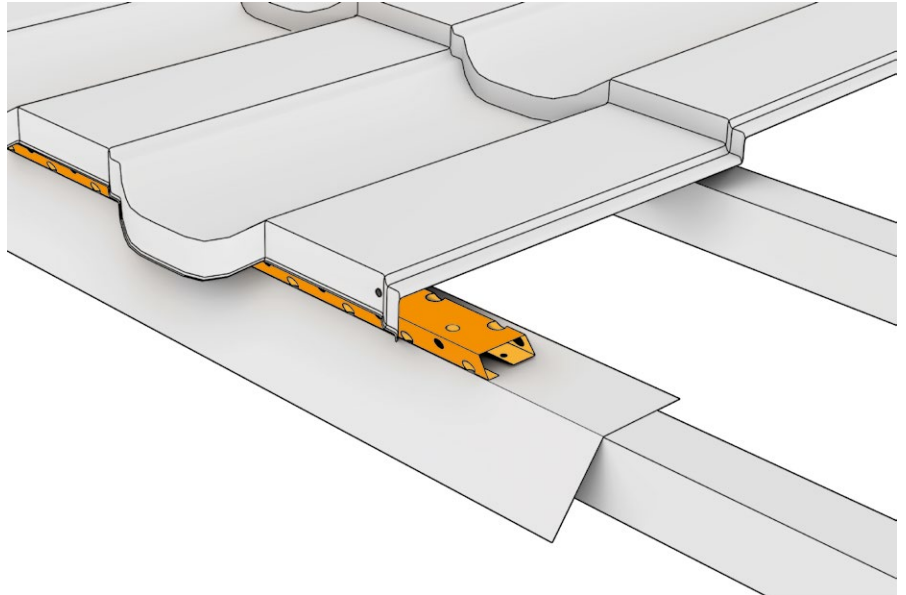


a = 320 mm
b = 350 mm
battens width 40 x 50 mm



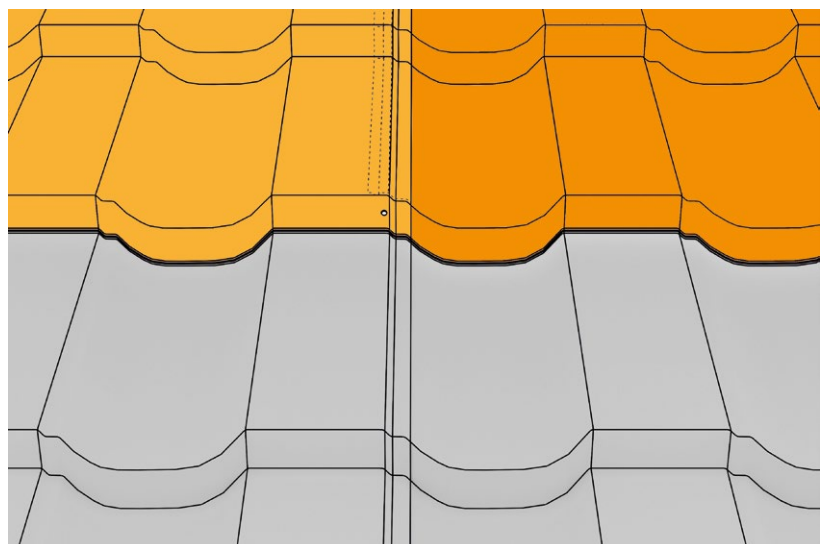
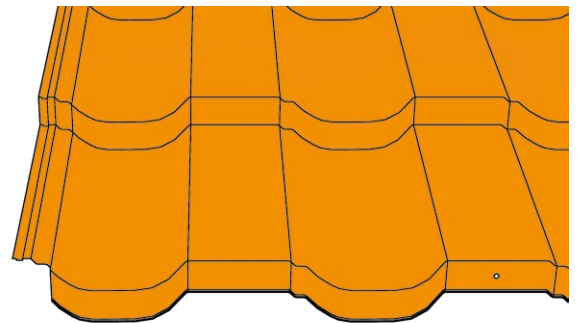
6. Installation of the first sheet in the row

Installation from the ridge. The first sheet in the row should be fixed by the universal ventilation flashing that functions as the starting profile, then screw the sheet to the battens using Torx screws. Each next sheet in the row is connected with the previous one (lower) using the middle and right installation holes and only then screwed to the battens.

FIG.4

7. EASY LINK corner cut-out

Special cut out and profile of the extreme rib that facilitates perfect match and levelling of the sheets without visible longitudinal joints.

FIG.5

8. Sheets installation sequence

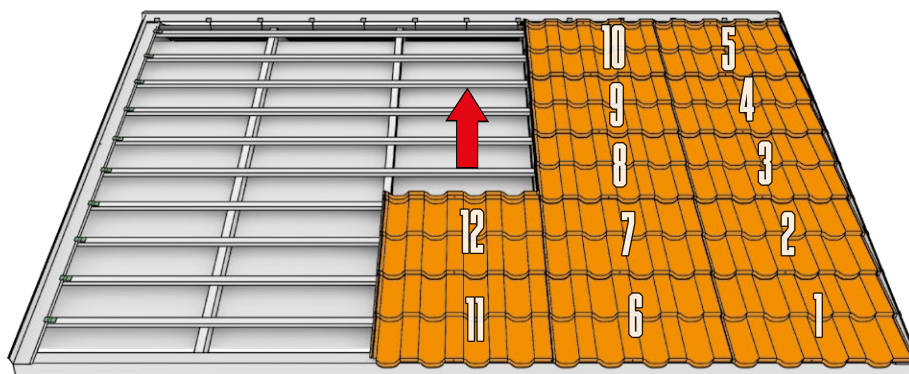
Installation of Compact metal roofing tiles should be performed from the eaves towards the ridge.

Correct sequence of Compact metal roofing tiles installation is in rows from the right side to the left.

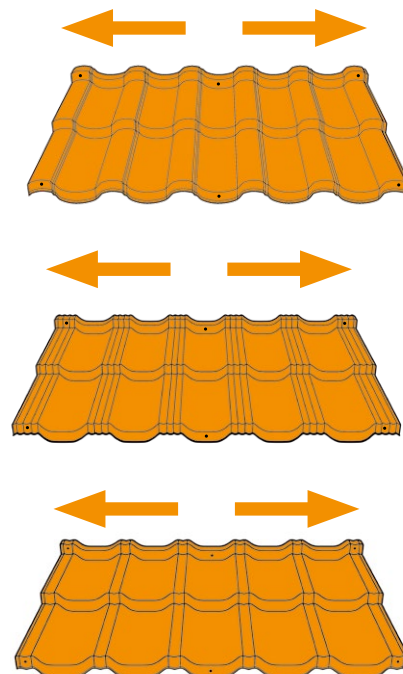
In case of Compact metal roofing tiles, such as STIGMA® 2.0, BAVARIA Roof® 2.0 and GAMMA® 2.0, it is also possible to install the tiles from the left side to the right.

The first sheet in the row must be fixed to the universal ventilation flashing that also functions as the starting profile and then screw the sheet to the battens using Torx screws. Each next sheet in the row is connected with the previous one (lower) using the middle and right installation holes and only then screwed to the battens.

FIG.6



STIGMA®, BAVARIA Roof® 2.0 and GAMMA® 2.0 Compact metal roofing tiles allow the overlaps both from the left and right side.

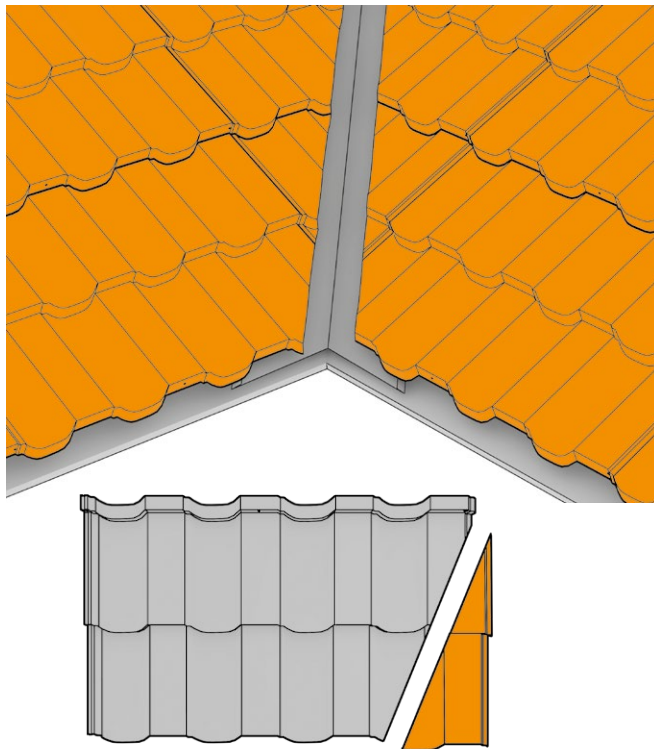


9. Cutting sheets to basket gutter

Cutting sheets to the basket gutter should be performed in line with the basket in order to ensure aesthetic finish.

We recommend to use using an expansion gasket as the basket gutter seal up to the sheet rib height.

FIG.7



10. Hip tiles installation

Install a ridge batten on supports in order to provide continuous roofing ventilation.

Hip tiles must be installed using short 4.8x20mm bolts „sheet to sheet“ every second ridge of the wave, using previously installed hip & ridge sealing tape or profiled gaskets.

FIG.8

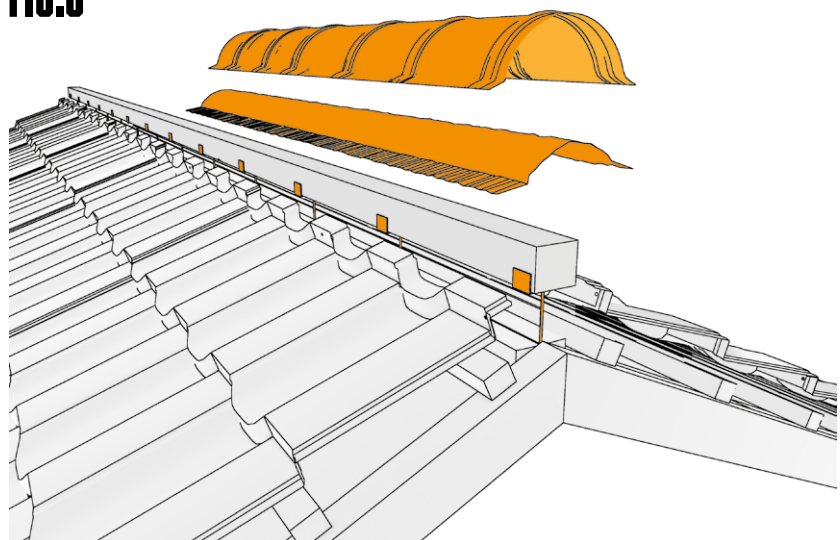
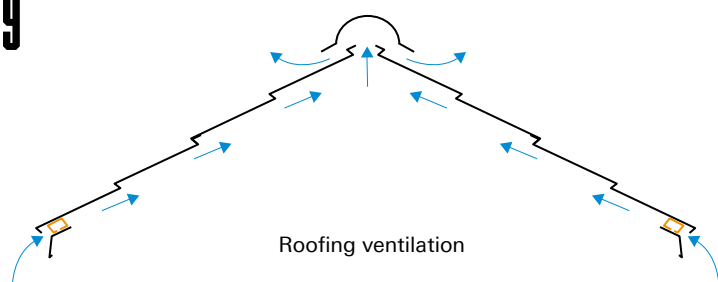


FIG.9



11. Wind brace installation

Because there are often strong winds at the edge of the roof area, remember to properly fix the wind brace flashing. In this case, we use the WIND BRACE II. First, install the wind brace tray (**fig. 10**). This element must be installed using installation clips both from the roof area side and the external side. Before covering the roof, glue an expanding tape of expansion range up to 3 cm (according to the sheet rib height) to the bottom area of the flashing.

For the external element of the wind brace, use farmer screws and when necessary apply 15-30 cm overlap when connecting the wind braces. In case of the extreme sheets covering the wind brace tray, plug the installation holes with bolts at the points the sheet overlaps the flashing.

Correct arrangement of the fasteners on the roof area should cover all extreme installation points and every second one inside the roof area.

FIG.10

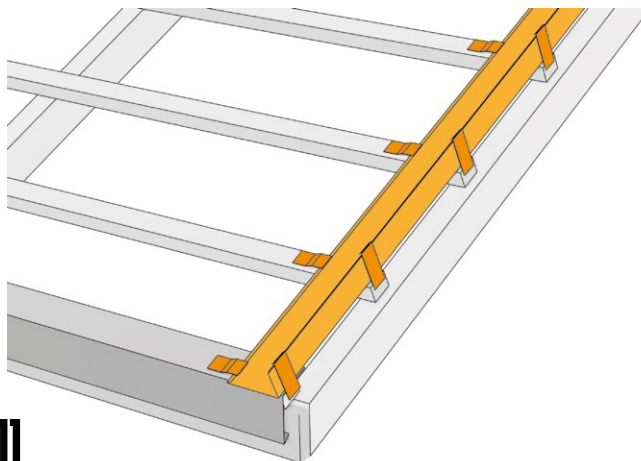


FIG.11

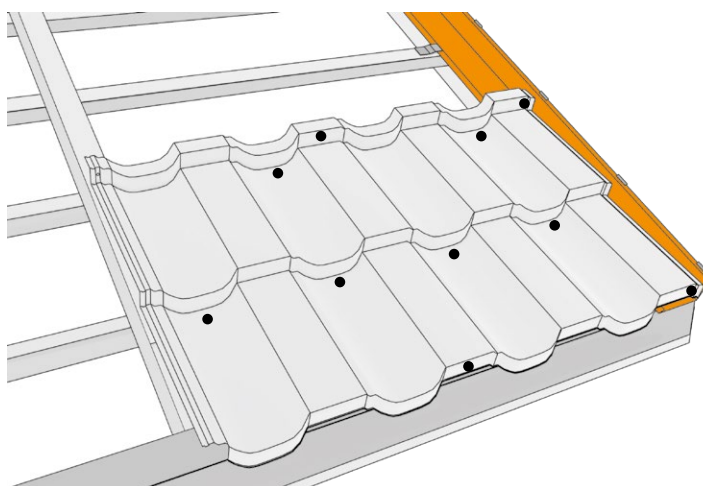
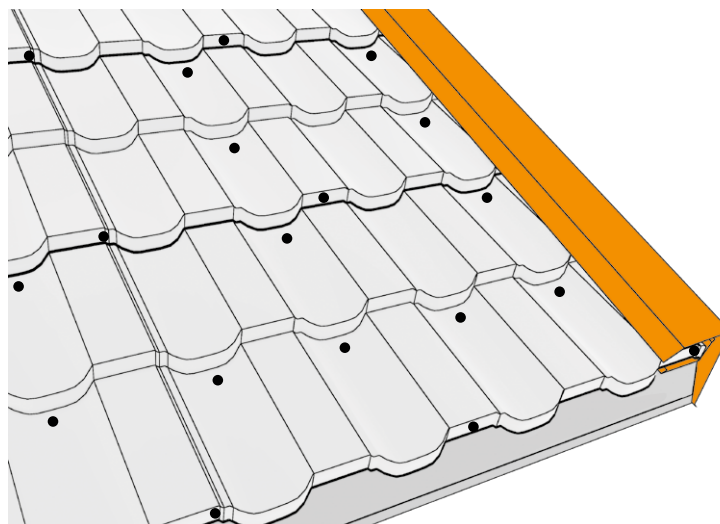


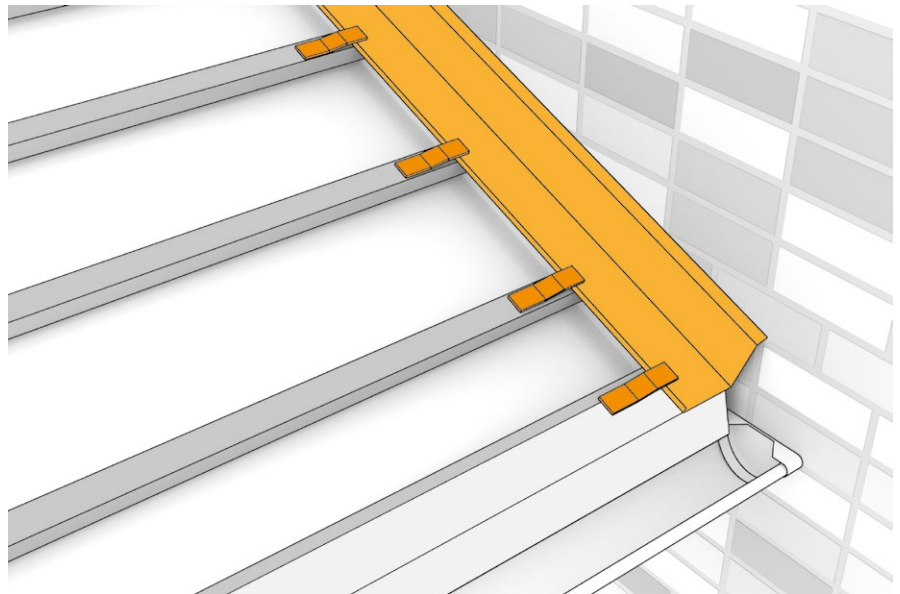
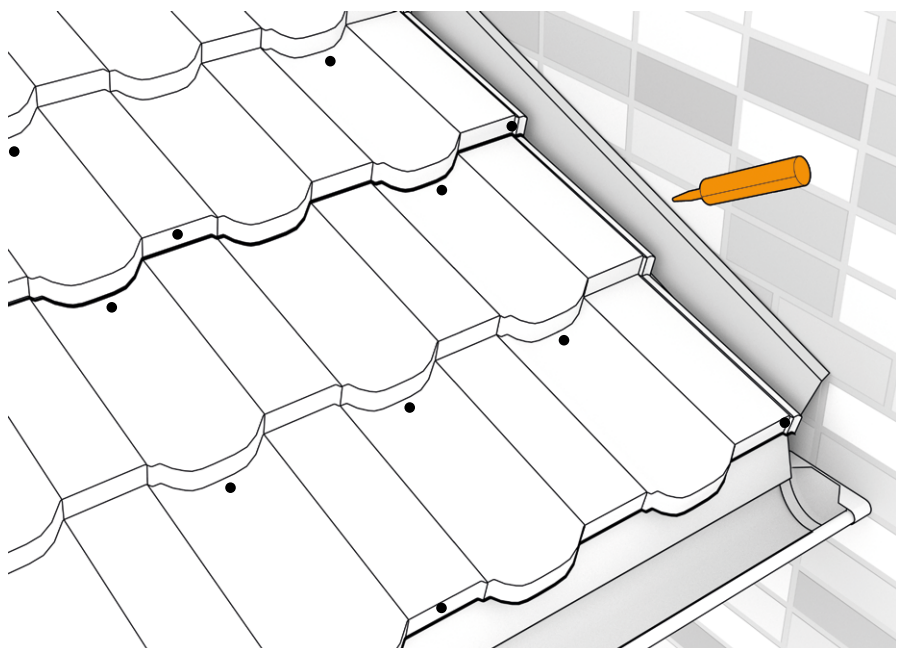
FIG.12



12. Wall flashing manual

Before installation, place the flashing against the edge of the roof in order to match it, taking into consideration the wall type and roofing inclination. In this case, use the WALL FLASHING II. Install the cut and bent flashing onto the battens using flat installation clips. Make sure that the flashing adheres to the wall along its entire length. If necessary to connect the wall flashing, use 50 mm overlap but the overlap should be increased in case of roof inclination below 25°.

Alike in case of the wind brace installation at the extreme sheets overlapping the flashing, plug the installation holes with bolts.

FIG.13**FIG.14**

Use roof cement to seal the joint at the wall.

