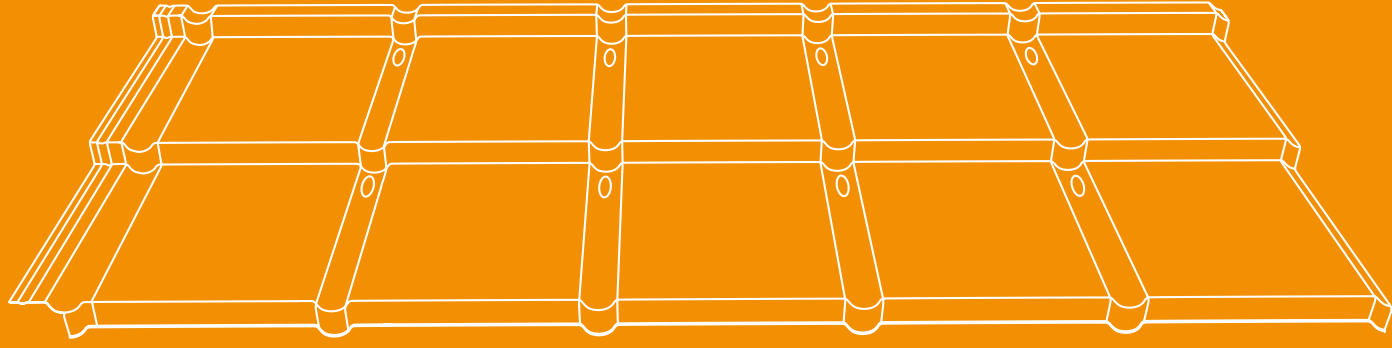




**BP2.EU**

# **INSTALLATION MANUAL**

**IZI<sup>®</sup>**



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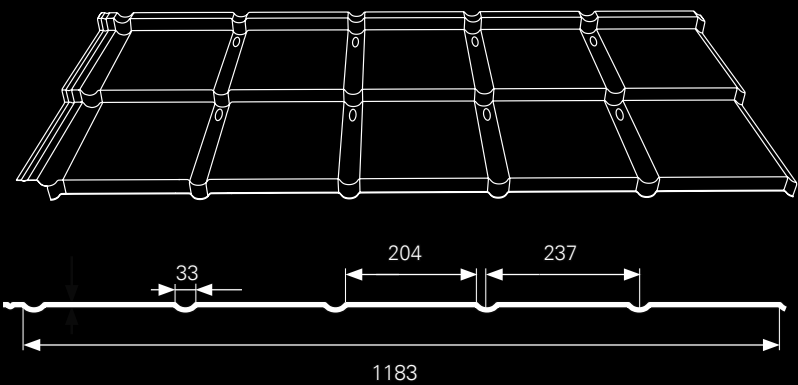
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**THIS MANUAL IS AN ILLUSTRATIVE MATERIAL AND DOES NOT RELEASE  
THE CONTRACTORS FROM THE OBLIGATION TO OBSERVE THE PRINCIPLES  
OF BEST ROOFING PRACTICES.**

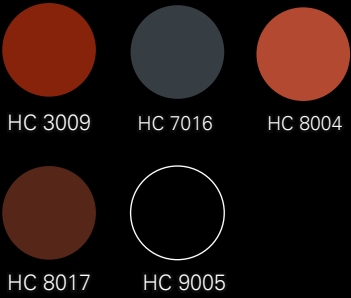
1. Specification of IZI® modular metal roofing tiles



Technical parameters [in mm]	
Effective width	1183
Total width	1233
Thickness of steel sheet	0,5
Height of forming	30
Module length	363 (batten spacing 350 mm)

Available coatings and colors

HERCULIT®



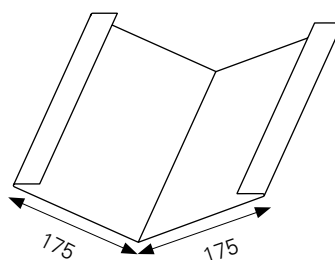
MAT 35 Standard



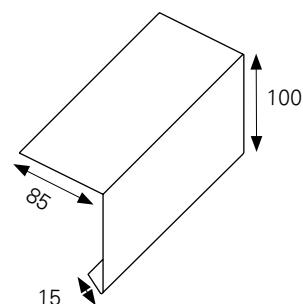
Printing technology does not have the capability of reproducing coating colours precisely. The colours shown here are intended for the orientation purposes only and may vary from those of the coatings themselves.

## 2. IZI® flashing system

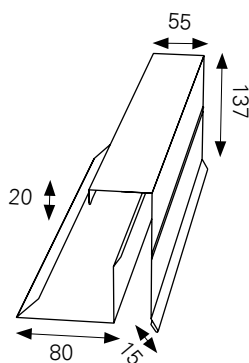
The flashings are made from sheets available in the same range of coatings and colours as the metal roofing tiles, trapezoidal sheets and roof panels we produce.



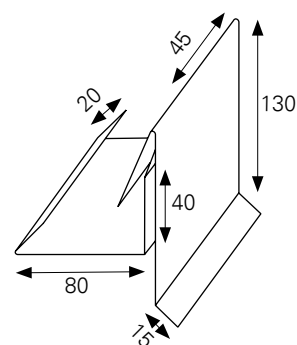
GUTTER BASKET



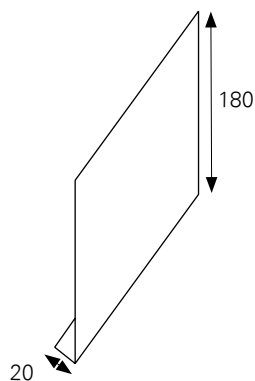
OVER-GUTTER STRIP



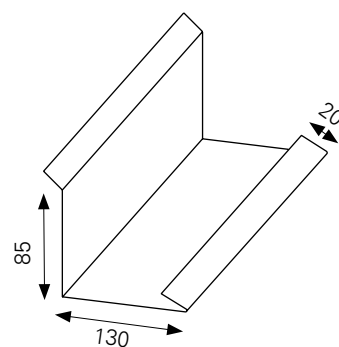
WIND BRACE I



WIND BRACE II



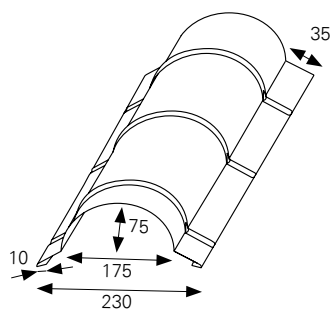
UNDER-GUTTER STRIP /  
WIND BRACE EXTENSION



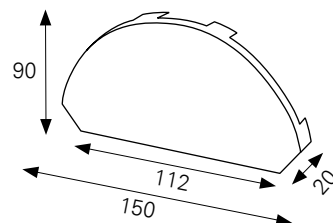
NEAR-WALL WORKING II



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.

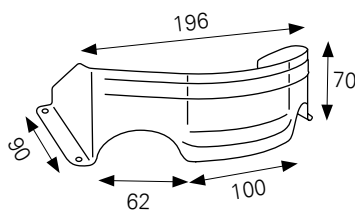


BARREL-SHAPED RIDGE TILE IZI®

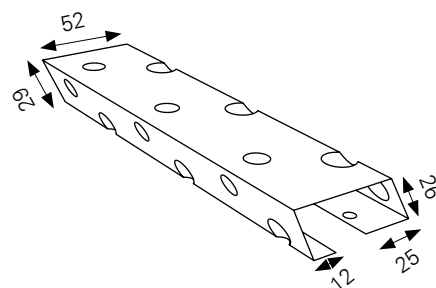


BOTTOM OF THE TRAPEZOID RIDGE TILE

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.



SNOW GUARDS



UNIVERSAL VENTILATION FLASHING /  
STARTING PROFILE FOR IZI®



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.

### 3. General recommendations

#### Transport

IZI® modular roofing tile is delivered on non-returnable Euro 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 modules allow transport to the installation site (e.g. using a stairwell) that can be performed by one person without the need to use specialist equipment.

#### Storage

IZI® modular roofing tile must be stored 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 14 cm. 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 coating 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 handling, 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.**



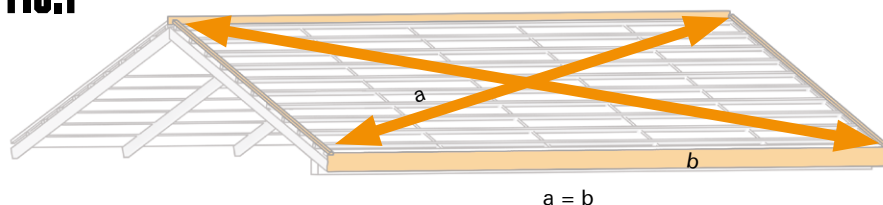
**IZI® modular roofing tiles can be used on a roof inclination not less than 15°. In case of installation on a smaller roof inclination, call the manufacturer's technical support first.**

## 4. Construction preparation

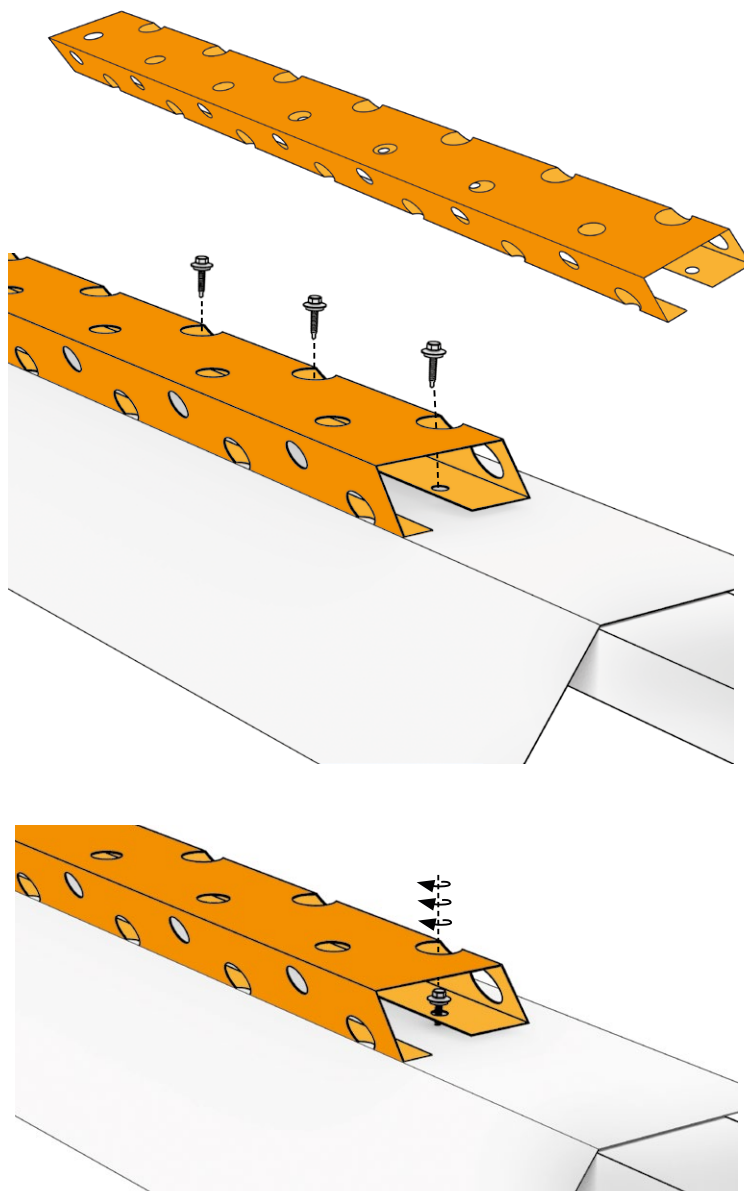
IZI® modular metal roofing tile should be installed on normally prepared base using battens and counterbattens. The installation and preparation of the base should be performed according to normal roofing procedures. It is necessary to remember about the eaves and ridge ventilation. During installation of **IZI® Roof** and **IZI® Look** it is necessary to use the Universal ventilation flashing (**fig. 2**). This is also a starting profile. Before installing the modular roofing tile IZI® first it is necessary to measure the roof diagonals. The roof inclination slope cannot be less than 15 degrees.

The universal ventilation flashing must be installed through the installation hole on the lower shelf of the flashing. The screws must be driven through the larger pilot hole in the upper shelf, as shown in the **fig 2**.

**FIG.1**



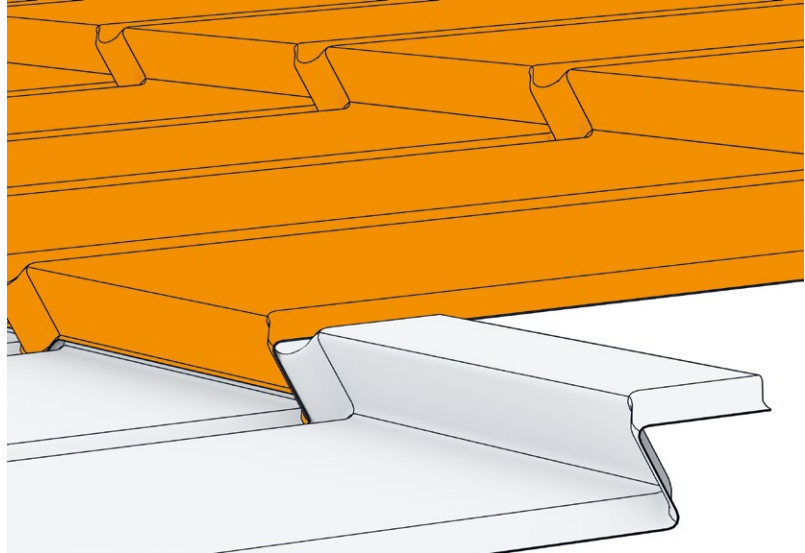
**FIG.2**



## 5. „Z” type lock

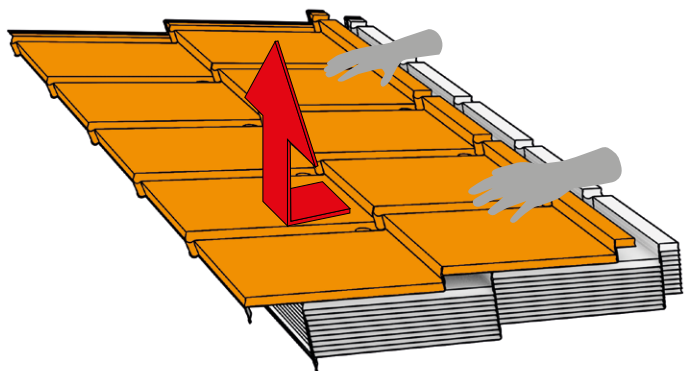
IZI® is an asymmetric modular metal roofing tile and has a module of perfectly flat surface. Moreover, it is fitted with the „Z” type lock that compensates stresses in the sheet and protects it against waving effect. It solves the problem of fastening the sheets using bolts as well as accelerates installation and reduces its costs.

**FIG.3**



**FIG.4**

Due to the construction of the sheets („Z” ribs), it is not allowed to take another sheet from the package by lifting them up directly. Before lifting the sheet, gently push it forward a few centimetres. Special caution must be taken so that installation dents do not scratch the lower sheet while sliding on the pallet.

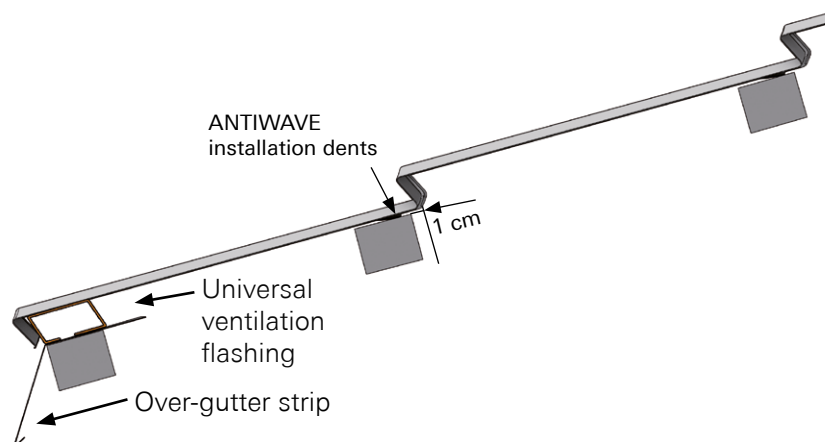




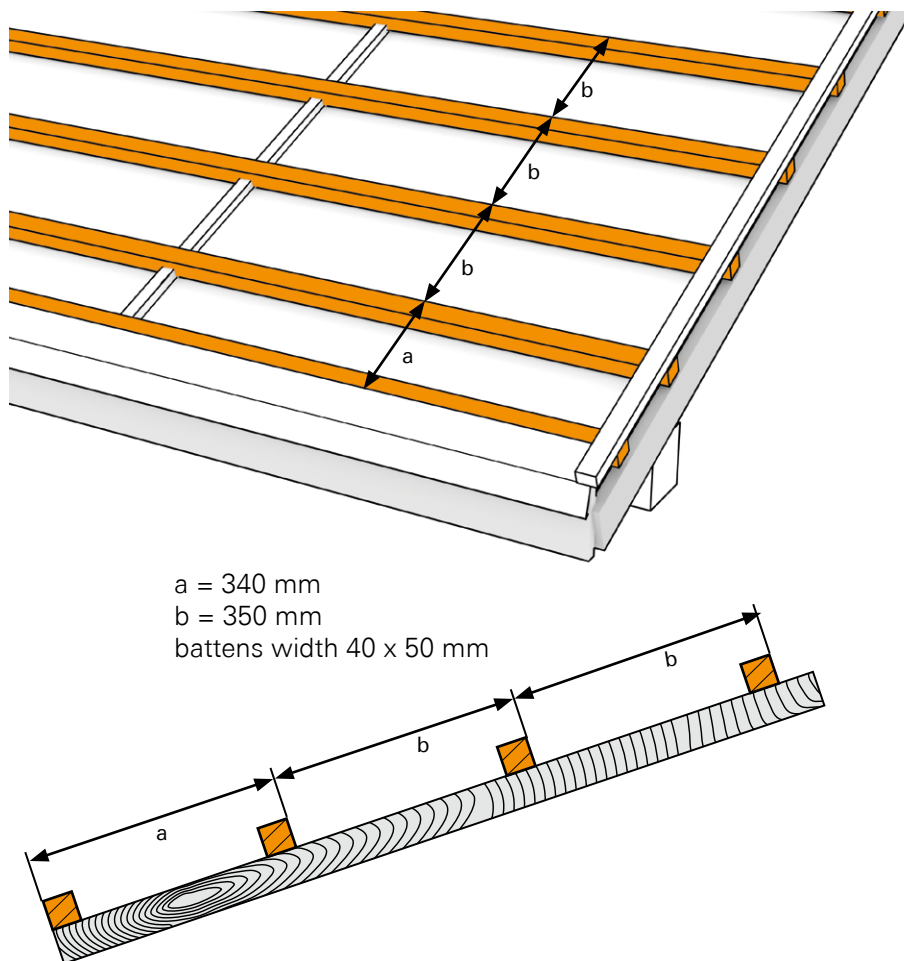
## 6. Battens spacing

A contractor must make every endeavour and be precise when fixing the battens and preparing the roof for installation of the metal sheet roofing tiles **IZI®Roof**. Accurate arrangement of the battens is critical and highly affects the final result. Spacing of the main battens is most important, i.e. 350 mm. Distance between the bottom edge of the first batten and the top edge of the second batten from the eaves side should be 340 mm (**acc. to fig. 6**).

**FIG.5**

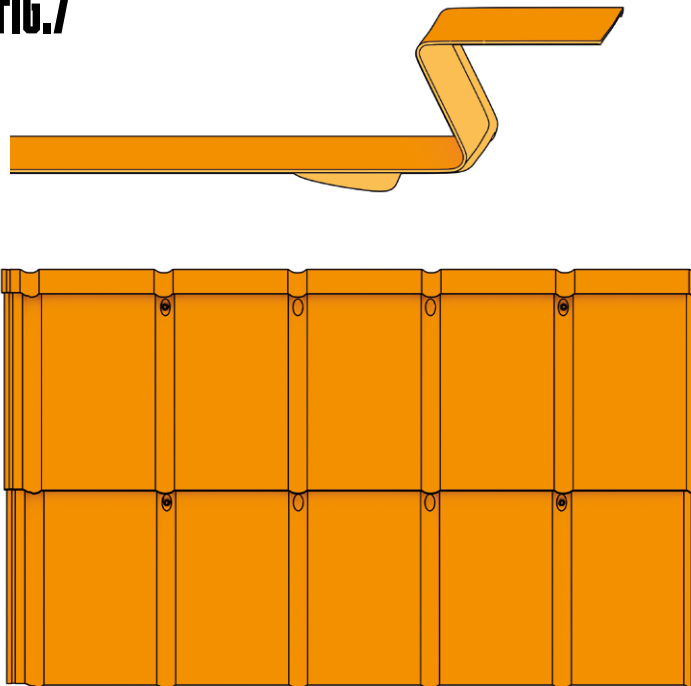


**FIG.6**



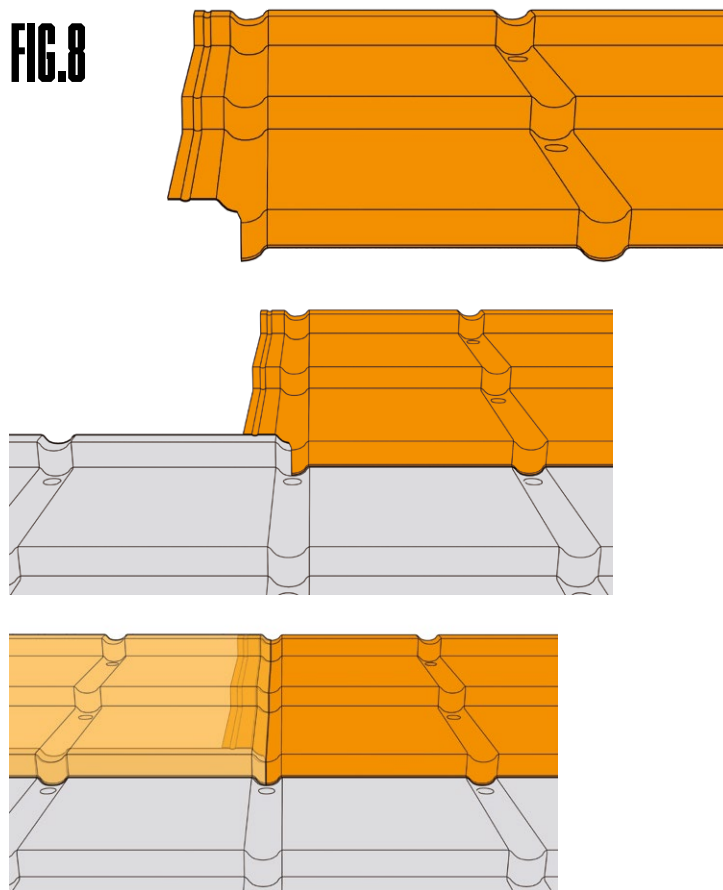
## 7. ANTI-WAVE

Sheets of **IZI®** modular metal roofing tile are equipped with a system of installation dents for bolts. They facilitate and accelerate precise location of the fastener, accurately at the spot where the sheet is best fastened and the bolt is hidden in the chiaroscuro of the lock. Moreover, the dents have a profile that facilitates water drainage during rainfall from the installation spot. This solution together with the „Z” rib reduces stresses and provides a perfectly flat surface

**FIG.7**

## 8. 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.8**

## 9. Sheets installation sequence

We recommend two types of installation.

1. Installation from the eaves towards the ridge (**fig. 9**)
2. Installation from the ridge towards the eaves (**fig. 10 and 11**)

The first variant includes installation from the eaves towards the ridge. In this case, it is recommended to install the sheets using the „alternating method“ in the sequence shown in **fig. 9**. The correct way to install the modular roofing tile **IZI®** is the so called „alternating method“ wherein the individual rows of sheets are shifted in relation to each other. The benefit of such panel arrangement is that there are no contact edges between four sheets. Moreover, longitudinal connection lines are not present in the same spots, which fact increases coating aesthetics.

According to the second variant, installation of the modular metal sheet roofing tiles **IZI®Roof** is performed from the ridge towards the eaves, from the right side to the left. Correct installation imposes placement in rows (**fig. 10**) which fact facilitates putting another row (lower) of sheets under the previously installed one. It is recommended to install the sheets using the „alternating method“ as in first variant.

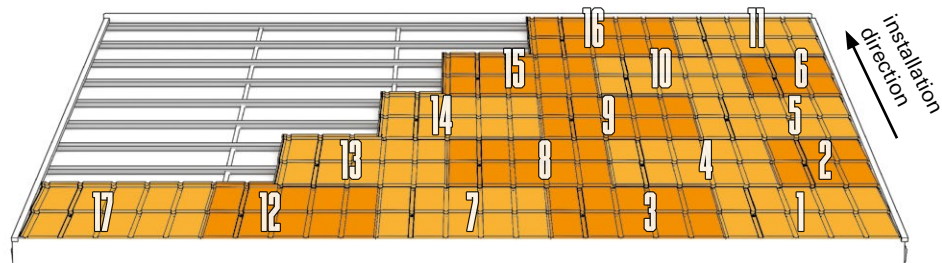
## 10. Placing sheets one below the other

According to the second variant, the following sheets must be installed under the previously installed (upper) row (**fig. 11**).

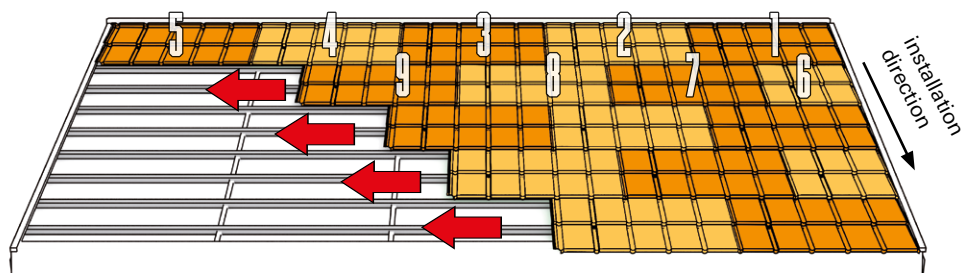


It is very important that during installation, the sheets are completely pushed against each other at the joint so that there is no play at the „Z“ lock.

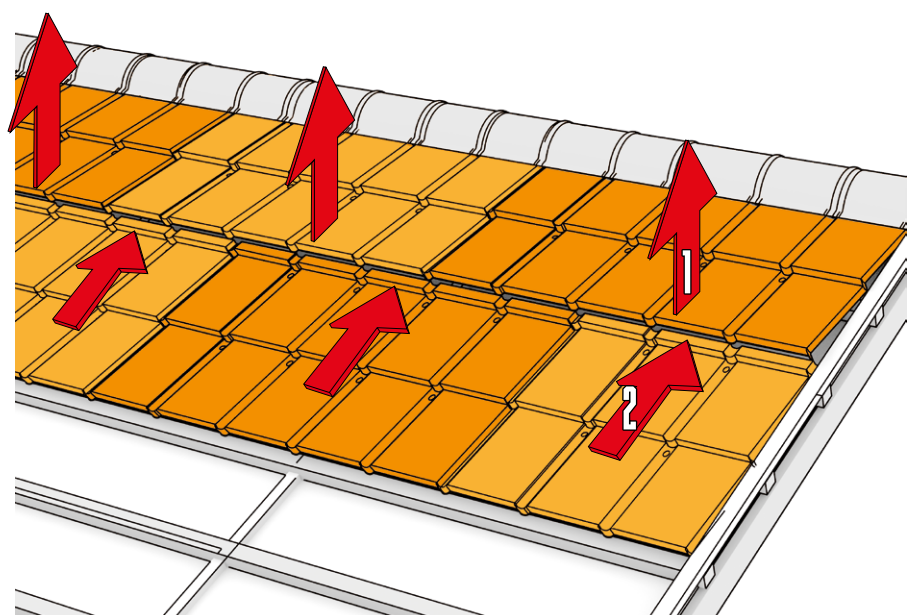
**FIG.9**



**FIG.10**



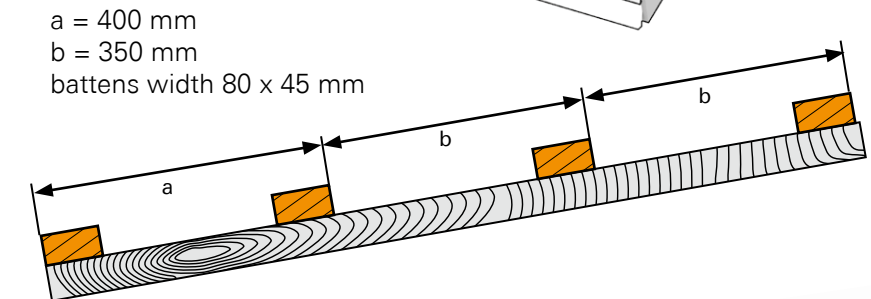
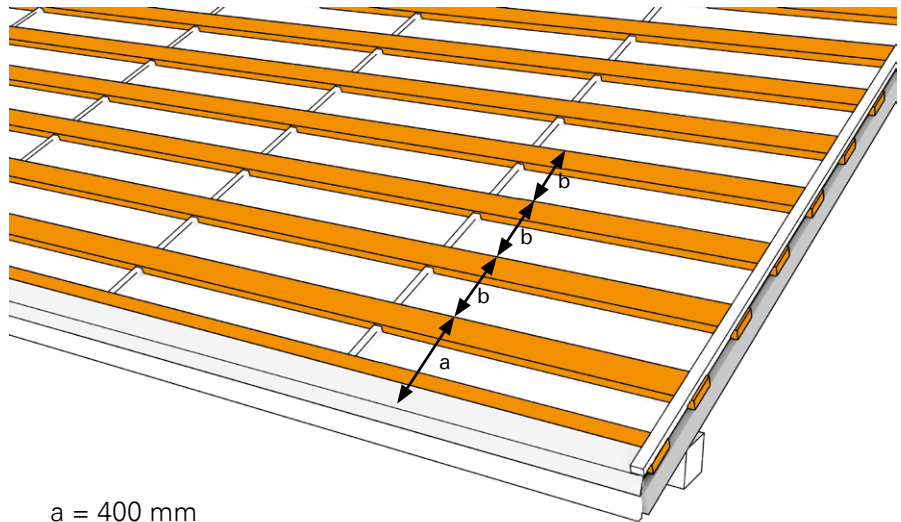
**FIG.11**



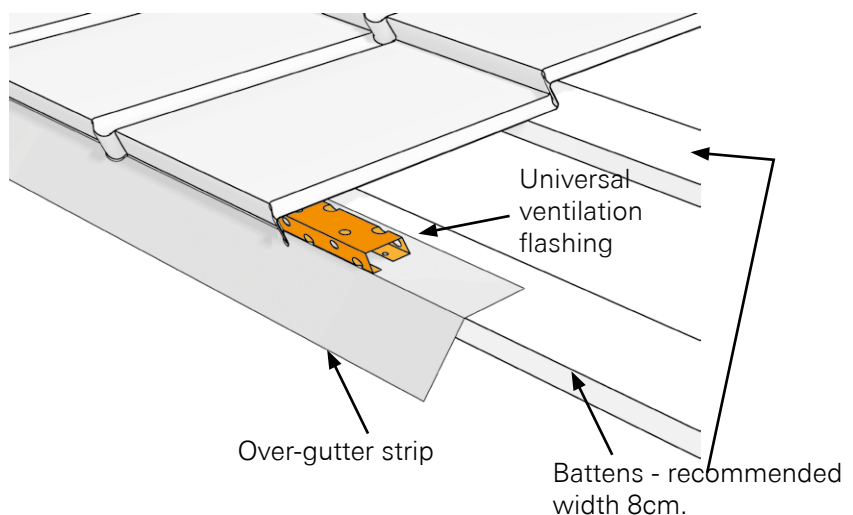
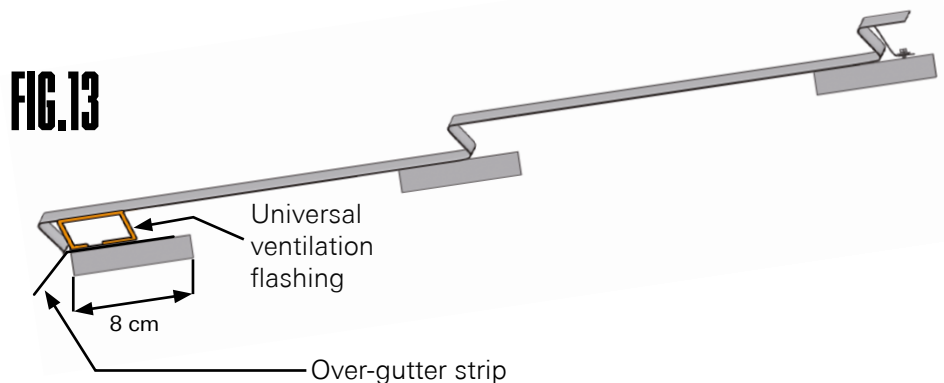
## 11. Installation of IZI®Look modular metal roofing tile

When installing modular metal roofing tile **IZI®Look**, it is recommended to use 8cm wide battens. In case of this profile, ventilation flashing serves as the starting profile.

**FIG.12**



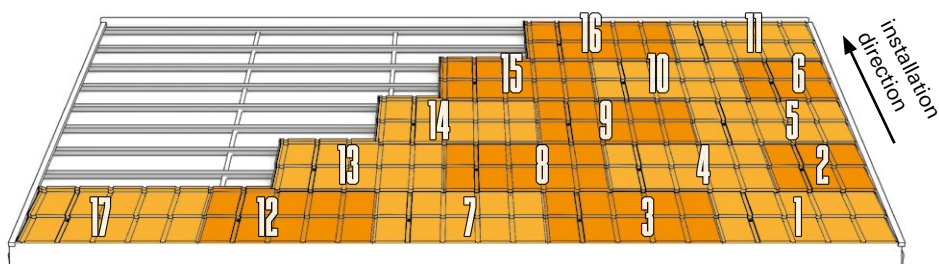
**FIG.13**



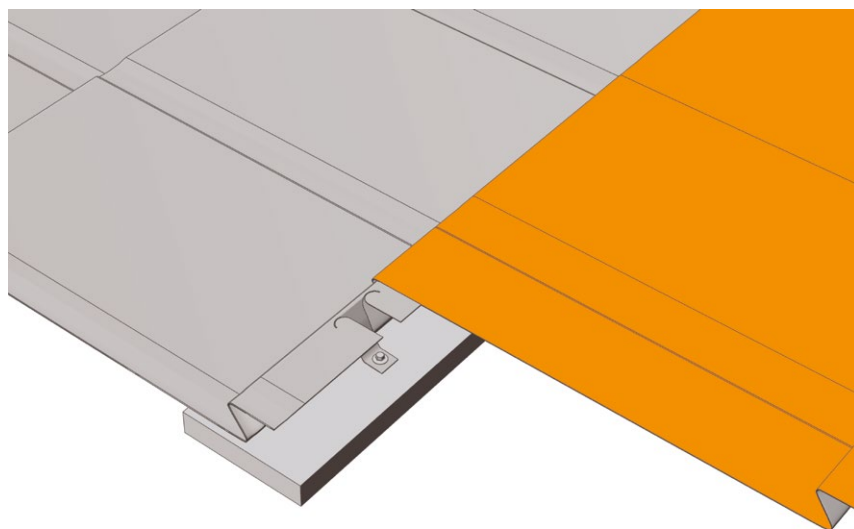
According to the diagram presented in **fig. 13**, the sheets are slid over the starting profile and screwed to the batten at the point of the prepared installation holes at the end of the sheet, using a magnetic bit of a cordless screw gun. Do not bend the tabs with the installation hole before inserting the bolt. While screwing in, the tab must be pressed tight so that both the tab and bolt adhere to the strip. **IZI®Look** sheets are fixed to the battens using  $4.8 \times 35 \text{ mm}$  bolts. It is necessary to use four bolts per one sheet.

In case of **IZI®Look** variant, the installation is made from the eaves towards the ridge.  
Avoid walking on already installed **IZI®Look** modular metal roofing tiles. Thus, before starting the installation, it is recommended to prepare and secure necessary quantity of sheets on the roof. In effect, there is no need to walk on already installed sheets to transport them to the installation spot.

**FIG.14**



**FIG.15**



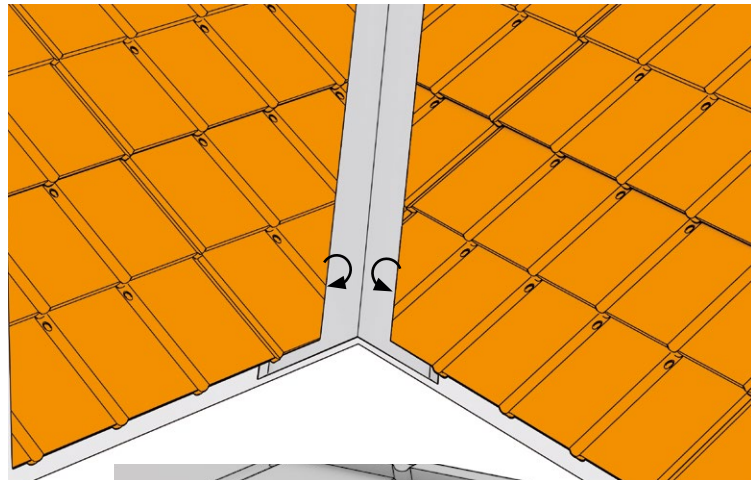
Remember not to bend the tabs with hole before inserting the bolt. During screwing in, the tab is pressed so that it contacts the strip together with the bolt.



## 12. Cutting sheets to basket gutter

When cutting the sheets to the basket gutter, provide 3 cm overlap. This allows bending the sheet in the line of the basket and improves aesthetic finish. We recommend to use expansion gasket as the basket gutter seal up to sheet rib height.

FIG.16



Cut the bent edge under the bevel from the base 0 to the rib - 3 cm.

## 13. Hip tiles installation

IZI® modular metal roofing tiles are offered together with hip tiles whose construction and ribs spacing accurately match the construction of the roofing tile sheet. It provides high aesthetics of the roofing.

The hip tiles must be installed using 4.8x20 mm bolts „sheet to sheet” every second ridge of the wave, using previously installed hip & ridge sealing tape or profiled gaskets,

FIG.17

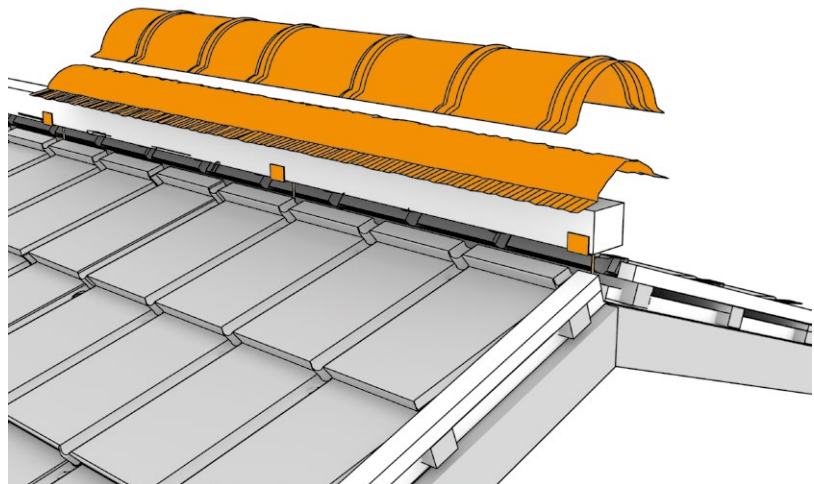
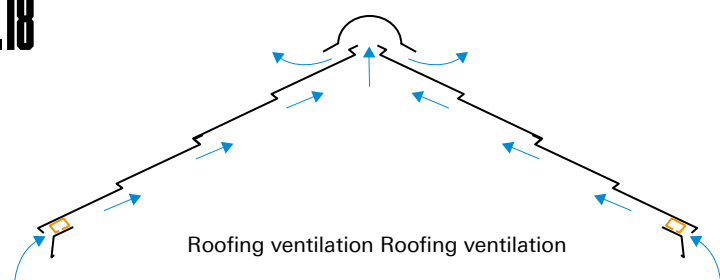


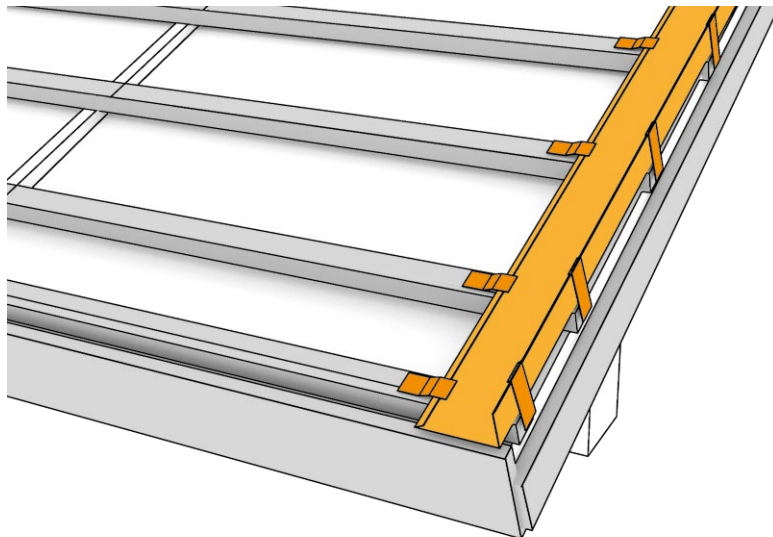
FIG.18



## 14. 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. 19**). This element must be installed using installation clips both from the roof area side and the external side. Before covering the roof, glue the expansion gasket of expansion range up to 3 cm (according to the sheet rib height) to the bottom area of the flashing.

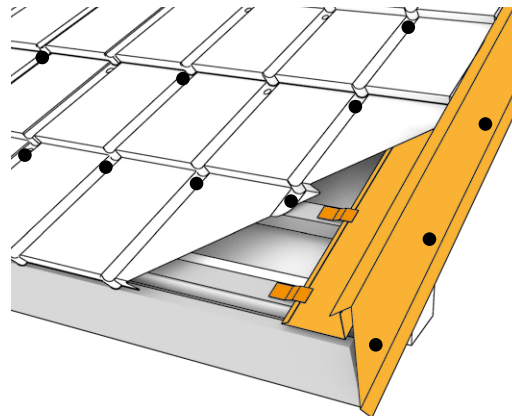
**FIG.19**



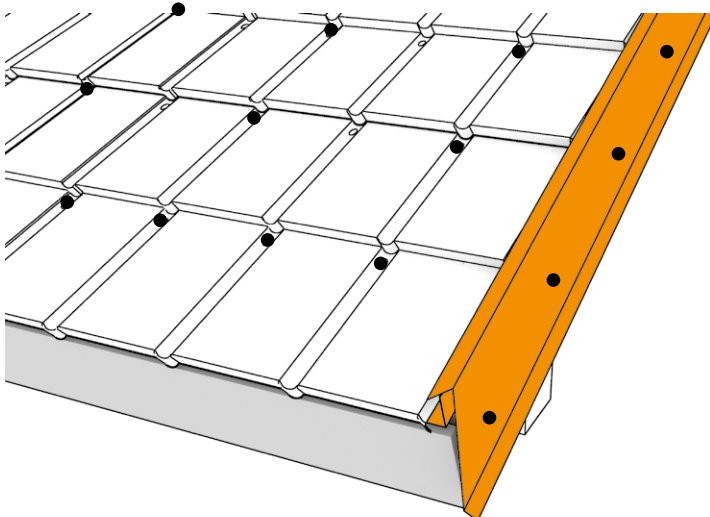
**FIG.20**

At the external element of the wind brace, use the farmer screw and when necessary apply 15 - 30 cm overlap when connecting the wind braces. The extreme sheets are fixed using the bolt in every valley of the sheets along the wind brace line.

Install the roofing tile sheets on the wind brace trace.

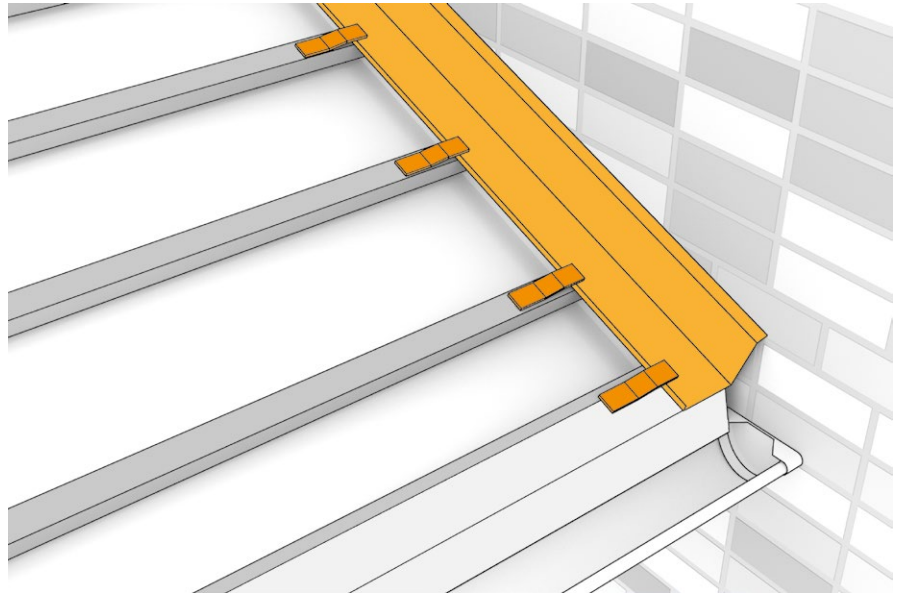


Correct arrangement of the fasteners on the roof area should cover all extreme installation points and every second ones inside the roof area.

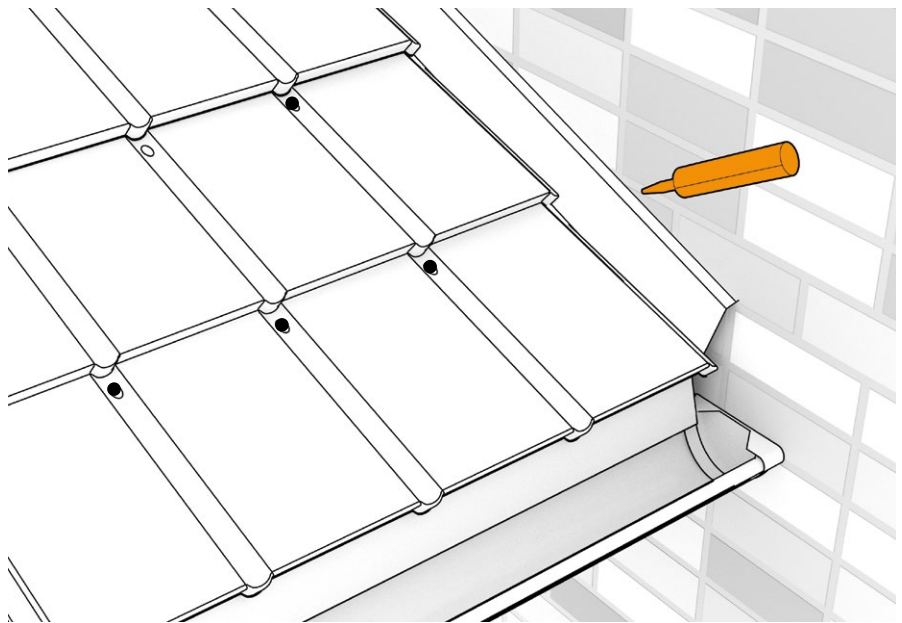


## 15. Wall flashing installation

Before installation, place the flashing against the edge of the roof in order to match it, considering the wall type and roofing inclination. In this case, we use the WALL FLASHING II. Install the cut and bent flashing to the battens using flat installation clips. Pay particular attention that the flashing abuts the wall along its whole length. Should it be necessary to connect the wall flashings, apply 50 mm overlap, however the overlap must be increased in case of roofing inclination below 25°.

**FIG.21**

Seal the joint using a roof cement.

**FIG.22**





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