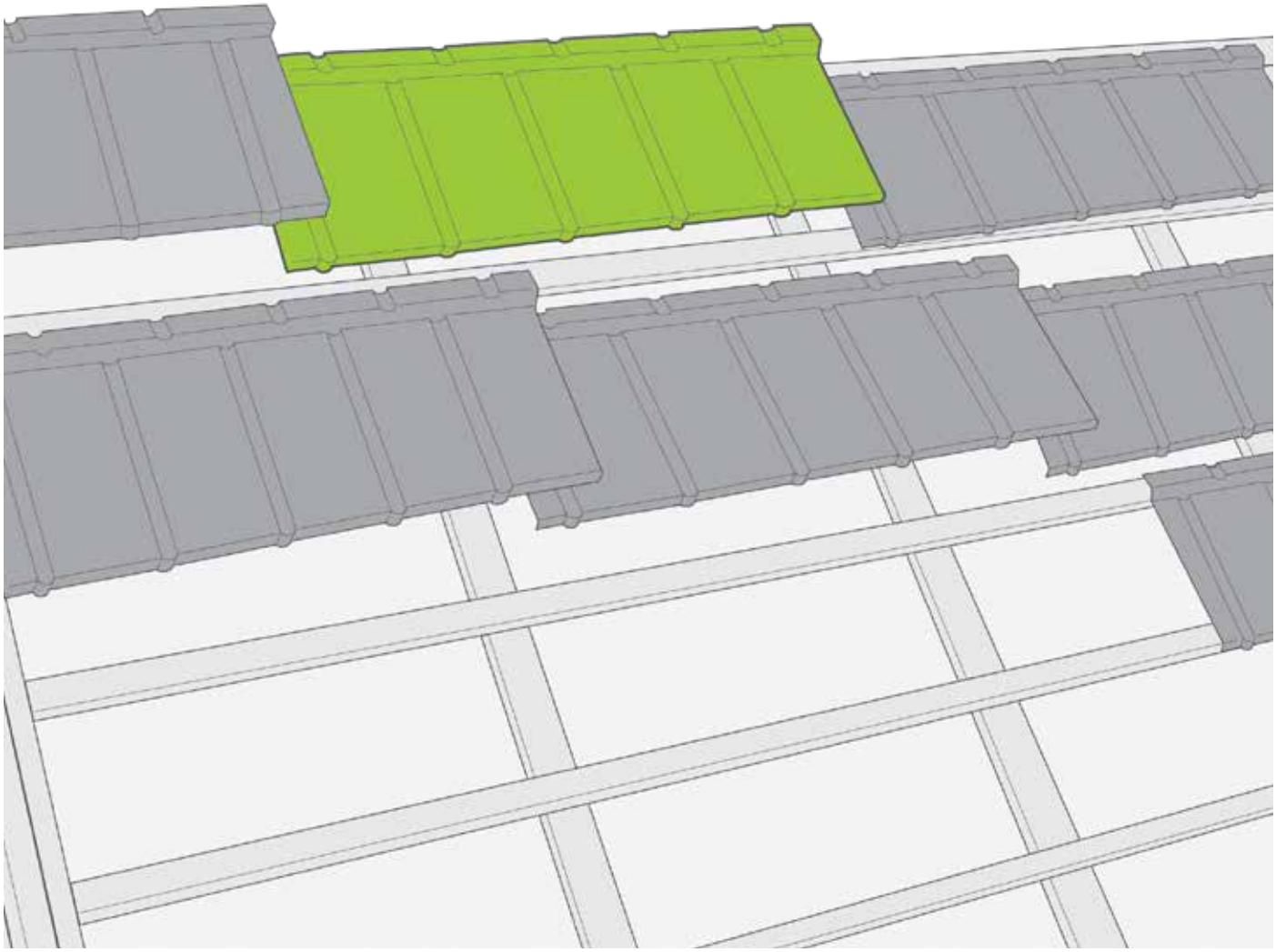
Novatik METAL CLASSIC

Novatik METAL SLATE

Novatik METAL WOOD

INSTALLATION GUIDE



Novatik®

"A ROOF FOR NINE LIVES,
GUARANTEED BY THE EXPERTS!"

NOVATIK.RO

IMPORTANT DATA

>STORAGE

If the product is stored outside, an impermeable sheet has to be laid over the tiles so as to keep them dry and prevent the underside damage. No more than 2 pallets high shall be stacked during transportation.

CLASSIC 12°-90°

SLATE/WOOD 16°-90°

>MINIMUM INSTALLATION PITCH

Novatik METAL CLASSIC tiles can be installed on roofs with an angle between 12 and 90 degrees, Novatik METAL SLATE tiles and Novatik METAL WOOD tiles can be installed on roofs with an angle between 16 and 90 degrees.

>NON COMPATIBLE ACCESSORIES

Upon fixing of other Novatik accessories or gutters above the roof level, it is recommended not to use materials that can cause corrosion damages through corrosion. (e.g. copper, stainless steel, etc.).

> ROOF TRAFFIC (fig.1)

People walking on the roofed area should wear soft rubber sole shoes. When walking on the roof, step on the pan in the front of the modules, which is supported by battens. You will thus avoid possible module deformation. Roof traffic should be maintained to a minimum in order to avoid tile damage. The modules have to be fixed progressively, from the ridge of the roof towards the (eaves), so the completed sections are not walked on more than necessary during installation.

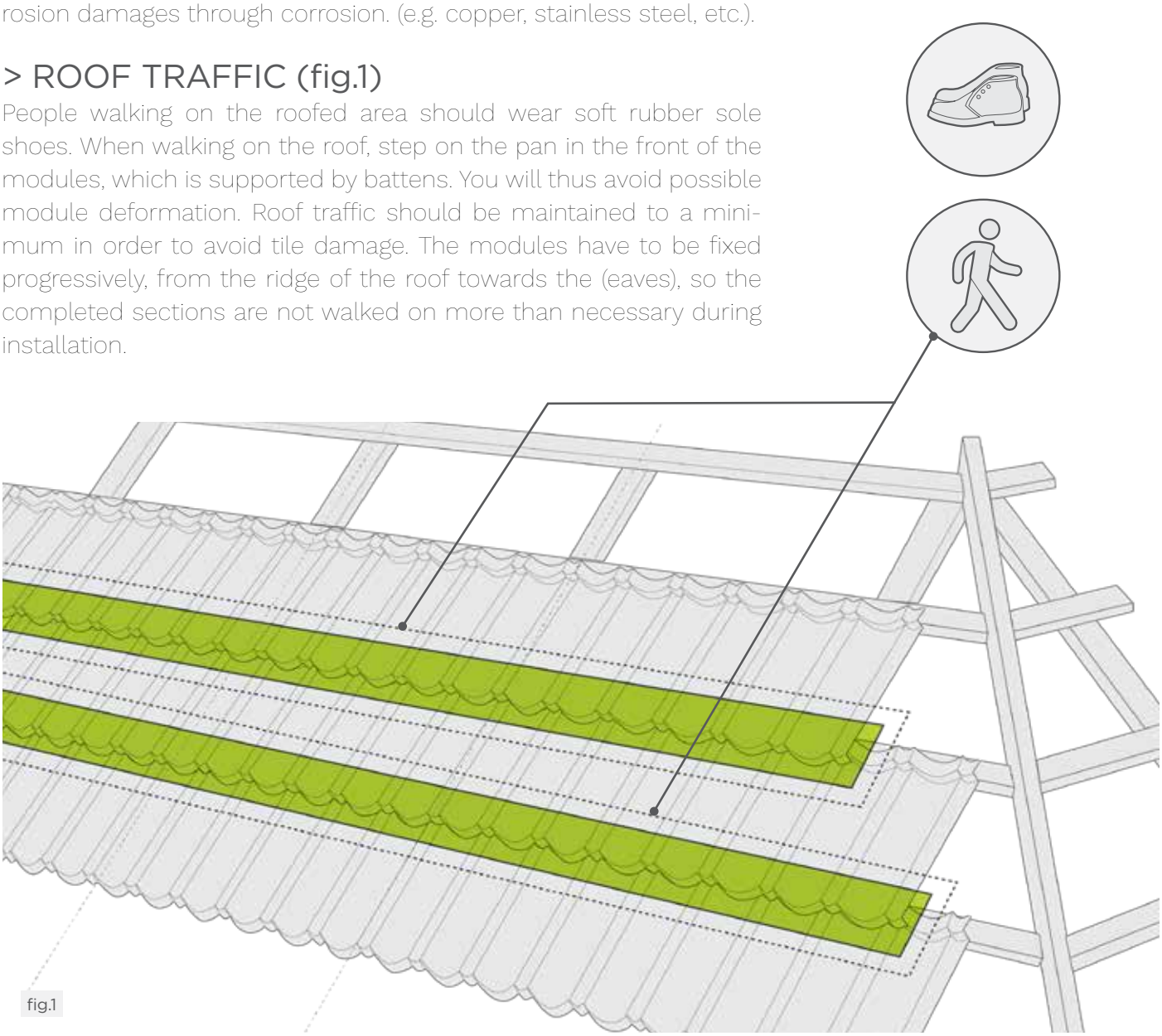
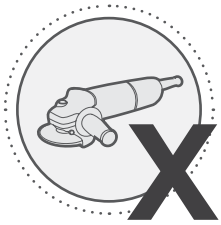


fig.1

>NON-COMPLIANT TOOLS

Novatik steel tiles should only be installed with tools recommended by Novatik. Tools generating heat upon cutting, as well as angle grinders should not be used, as they trigger the delamination of the coating layers, which will corrode, in time.



>LIABILITY

The architect, builders and roof installers are committed to ensuring that all roof elements (e.g. anti-condensation sheet, counter-battens heat insulation and vapors barrier) are adequately fixed.

>PACKAGING

The tiles are stacked on wooden pallets and wrapped in customized plastic sheeting, and the accessories are packaged in stretchwrap. One pallet contains 400 Novatik tiles which correspond to a roof area of approx. 186 sqm for Novatik METAL CLASSIC and approx. 184 sqm for Novatik SLATE and Novatik WOOD. A tile pallet base measures 1400 x 1080 mm, with 400 mm in height. The weight of a complete pallet is maximum 985 kg.

1 PALLET:

400 NOVATIK MODULES
WEIGHT 985 KG
LENGTH 1400 MM
WIDTH 1080 MM
HEIGHT 400 MM

1 PALLET COVERAGE:

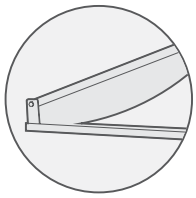
CLASSIC
186 SQM

SLATE/WOOD
184 SQM

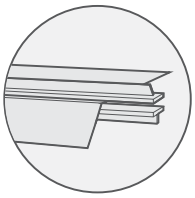
> HANDLING

Tiles have to be handled with care, so as to avoid surface coating damage. In the case of minor damage, it can be remedied with the touchup spray.

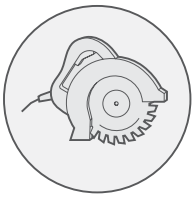
> RECOMMENDED TOOLS



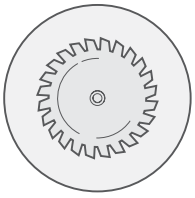
GUILLOTINE



BENDER



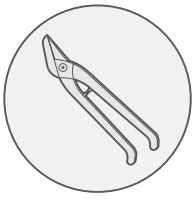
CIRCULAR METAL SAW BLADE



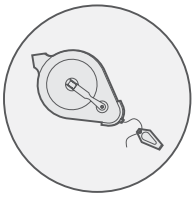
CIRCULAR METAL DISK

HAMMER

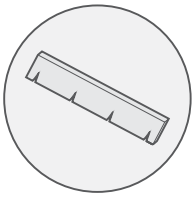
HAND BENDER



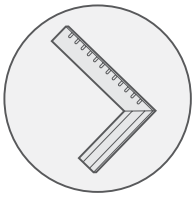
HAND SNIPS



PLOTTING WIRE DEVICE



HORIZONTAL CLEAVES FASTENING CALIBER



SQUARE

MEASURING TAPE

NAIL GUN

SOFT SOLE LEATHER FOOTWEAR

>DISTINCT PROFILE

Novatik metal roof tiles have been designed to give the aesthetic appearance of ceramic tiles, but with an original profile.
Advantages of tile's design and dimensions:
- Easy handling;
- Reduced storage space;
- Reduced transport costs due to low weight;
- Where access is difficult, smaller vehicles can be used;
- Easier installation and less breakages, especially on complex roofs.

Novatik METAL CLASSIC is available in two versions:
Novatik METAL CLASSIC Mat - 15 years warranty for aesthetics and 30 years technical warranty.
Novatik METAL CLASSIC High Coat - 25 years warranty for aesthetics and 40 years technical warranty.

>LOW WEIGHT

The optimal design of the tiles and their low weight, compared to traditional roofing materials, provide a great opportunity in the design stage to make substantial savings, by reducing the weight and dimensions of the roof substructure, without compromising the structural integrity of the roof.

>STRONG & SECURE FASTENING SYSTEM

The tiles are fastened with nails or screws to the roof battens requiring no further components. The tiles are overlapped to create a perfect interlocked system, which is completely secure and waterproof. Novatik roofing system is one of the most secure and durable systems available.

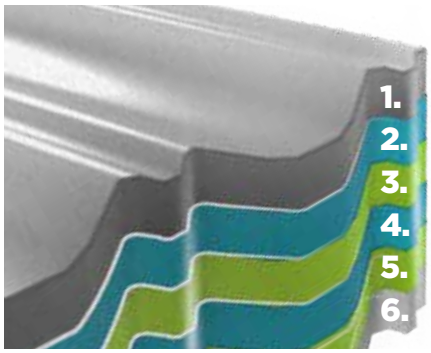
>EASY INSTALLATION

The tiles can be overlapped in both directions (from left to right or from right to left), thus reducing installation time and costs.

Novatik
METAL | CLASSIC

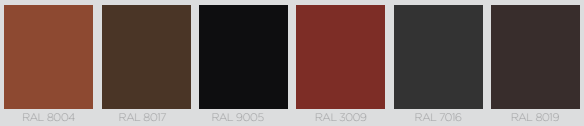
>LAYERS

1. Polyester Mat 35 µm / Polyurethan/ Polyamid 50 µm;
2. primer;
3. layer of ZnMg / Zn;
4. steel;
5. layer of ZnMg / Zn;
6. Polyester 10 µm / Epoxid 10 µm.



AUSTRIAN STEEL FROM:
voestalpine

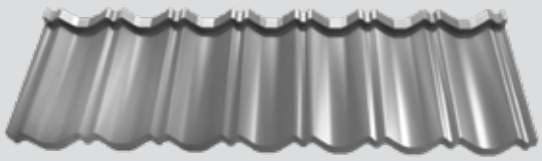
Novatik
METAL | CLASSIC MAT



15 YEARS AESTHETICS WARRANTY

30 YEARS TECHNICAL WARRANTY

Novatik
METAL | CLASSIC HIGH COAT



25 YEARS AESTHETICS WARRANTY

40 YEARS TECHNICAL WARRANTY

Novatik METAL | SLATE

>SPECIAL PROFILE

Novatik METAL SLATE profile was created to combine natural slate look with the advantages of modern materials. With Novatik METAL SLATE you will have a roof with a simple design, functional aesthetics, minimalist and without unnecessary architectural elements. Strong linear elements and bold horizontal lines make Novatik METAL SLATE roof the ideal choice for all types of constructions and renovations. Smooth surfaces and reduced height of the profile are very suitable for roofs with complex geometry and at least 16 degrees pitch.

>MODERN TECHNOLOGY

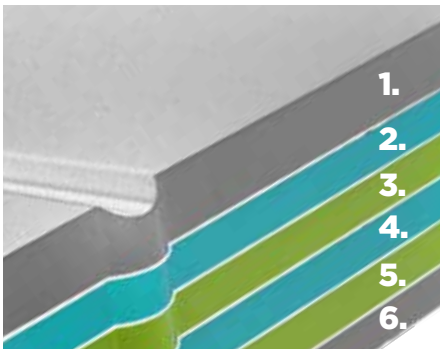
The modern technology for manufacturing the tiles offers Novatik METAL SLATE a great finish, achieving perfect interlocking of modules during installation, thus reducing the risk of leakage and making it one of the most secure roofing systems on the market. The tiles are fixed with nails or screws with a minimum density of 8 units / sqm.

>ADVANTAGES

- Reduced technological losses for roofs with a complex architecture;
- Flawless finish;
- Natural Slate look;
- Durable, lightweight system for easy, quick and safe installation;
- High resistance to fire, to extreme high winds and heavy snow loadings;
- The unique horizontal fixing system provides extra security against leakage and ensures that each tile remains in place in extreme high winds conditions;
- Low maintenance;
- 100% recyclable.

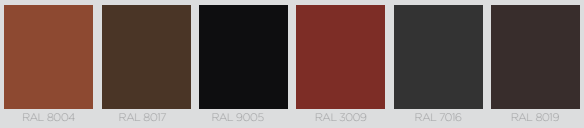
>LAYERS

1. Polyester Mat 35 µm;
2. primer;
3. layer of ZnMg / Zn;
4. steel;
5. layer of ZnMg / Zn;
6. Polyester 10 µm.



AUSTRIAN STEEL FROM: voestalpine

Novatik METAL | SLATE MAT



15 YEARS — AESTHETICS WARRANTY

30 YEARS — TECHNICAL WARRANTY

>TRADITIONAL BEAUTY

The natural beauty of a wood shingle roof is completely recreated with our newest profile - Novatik METAL WOOD - while keeping all the advantages of metal tiles (light weight, high corrosion protection, lasting strength and durability). Unlike traditional wooden shingles, which require maintenance or replacements, Novatik METAL WOOD shingles need very low maintenance.

Novatik METAL | WOOD

>MODERN TECHNOLOGY

The protection provided by the ZnMg coating ensures a high degree of resistance to corrosion and better performance in different extreme weather conditions, compared to galvanized steel. Providing installation according to our specifications, we offer 15 years aesthetic warranty and 30 years technical warranty.

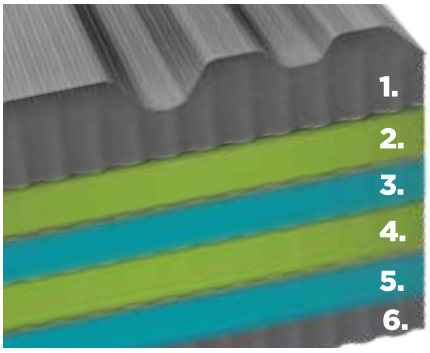
Each Novatik METAL WOOD tile is made using modern metal pressing technology resulting a deep wood grain impression, which makes the shingle look so unique. The tiles are fixed with nails or screws with a minimum density of 8 units/sqm.

>ADVANTAGES

- Aesthetic appearance of wooden shingles;
- Great finishing;
- Fast and secure installation;
- Durable and lightweight system;
- Low maintenance;
- 100% recyclable;
- The symmetry of the tiles allows installation from both directions (from left to right or right to left), providing invisible overlapping;
- High resistance to impact, to high speed winds or powerful storms and snow loadings.

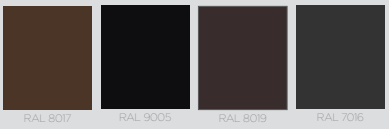
>LAYERS

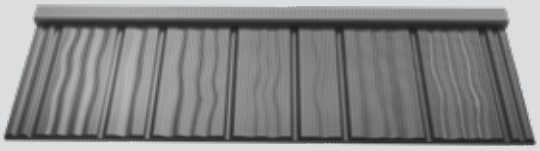
1. Polyester Mat 35 µm;
2. primer;
3. layer of ZnMg / Zn;
4. steel;
5. layer of ZnMg / Zn;
6. Polyester 10 µm.



AUSTRIAN STEEL FROM: voestalpine

Novatik METAL | WOOD MAT





15 YEARS — AESTHETICS WARRANTY

30 YEARS — TECHNICAL WARRANTY

TECHNICAL DATA

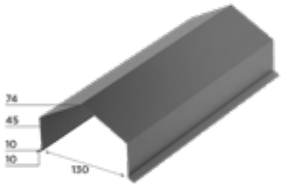
	Novatik CLASSIC MAT	Novatik CLASSIC HIGH COAT	Novatik WOOD MAT	Novatik SLATE MAT
TOTAL LENGTH	1 340 mm	1 340 mm	1 375 mm	1 320 mm
LENGTH OF COVER	1 260 mm	1 260 mm	1 295 mm	1 244 mm
WIDTH OF COVER	370 mm	370 mm	370 mm	370 mm
TILES/SQM	2,15 modules	2,15 modules	2,09 modules	2,17 modules
ROOF PITCH	Min 12°	Min 12°	Min 16°	Min 16°
THICKNESS (STEEL + ORGANIC COATINGS)	0,50 mm	0,51 mm	0,50 mm	0,50 mm
WEIGHT / SQM	4,74 kg/sqm	4,96 kg/sqm	4,76 kg/sqm	4,61 kg/sqm
LOOK	MAT	LUCIOS	MAT	MAT
SURFACE COATING	Polyester Mat **35 microns**	Polyurethan/Polyamid **50 microns**	Polyester Mat **35 microns**	Polyester Mat **35 microns**
PROTECTION LAYER	Lack polyester of **10 microns** on the back side of the tile	Lack epoxid of **10 microns** on the back side of the tile	Lack polyester of **10 microns** on the back side of the tile	Lack polyester of **10 microns** on the back side of the tile
RAW MATERIAL	Steel with protective coating of **ZnMg 120g/sqm /Zn 275 g/sqm**	Steel with protective coating of **Zn 275 g/sqm /ZnMg 120 g/sqm**	Steel with protective coating of **ZnMg 120g/sqm /Zn 275 g/sqm**	Steel with protective coating of **ZnMg 120g/sqm /Zn 275 g/sqm**
AESTHETIC WARRANTY	15 years	25 years	15 years	15 years
TECHNICAL WARRANTY	30 years	40 years	30 years	30 years

>NOTES

ACCESSORIES

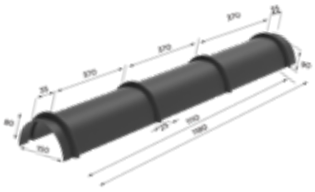
Novatik METAL CLASSIC | Novatik METAL SLATE | Novatik METAL WOOD

1
CLASSIC SLATE WOOD



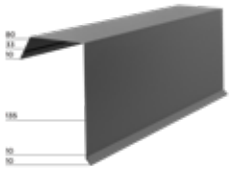
RECTANGULAR RIDGE

2
CLASSIC SLATE WOOD



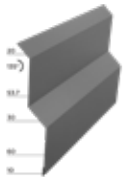
BARREL TRIM

3
CLASSIC SLATE WOOD



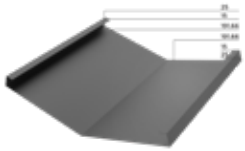
BOX BARGE

4
CLASSIC SLATE WOOD



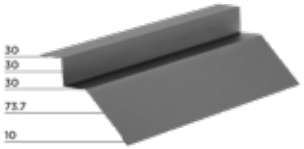
SIDE FLASHING

5
CLASSIC SLATE WOOD



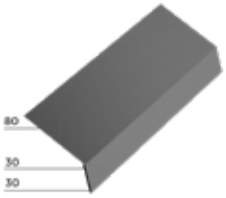
VALLEY

6
CLASSIC SLATE WOOD



EAVES FLASHING

7
CLASSIC SLATE WOOD



ANTI-CODENSATION FLASHING

8
ALL PROFILES

VENTILATION CHIMNEY

9
CLASSIC/SLATE/WOOD

SNOW GUARDS

10
ALL PROFILES

SNOW STOPPERS SIGMA PROFILE

11
ALL PROFILES

NAIL SEALING TAPE

12
ALL PROFILES

ROOFING MEMBRANE 115, 140, 160

13
ALL PROFILES

RIDGE VENTILATION ROLL

14
ALL PROFILES

PODEST

15
ALL PROFILES

STEP

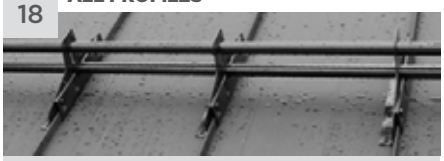
16
ALL PROFILES

EAVES CLOSING COMB

17
ALL PROFILES

LADDER

18
ALL PROFILES



SNOW STOPPERS

19
ALL PROFILES

PERFORATED MESH TO PREVENT THE ENTRY OF BIRDS AND INSECTS

20
CLASSIC/SLATE/WOOD

VENT / SANITARY VENT

Novatik offers a complete roof accessories program. The correct use of the accessories ensures a perfect ventilation and sealing of the roof and completes its aesthetic appearance.

AUSTRIAN STEEL FROM: voestalpine

INSTALLING NOVATIK TILES

>PREPARING SITE DOCUMENTATION

STEP 1

Prior to the completion of the site handover documentation the senior installer shall make sure that all his team members are trained according to the labour safety standards and are equipped with the specified operating and protection equipment (overalls, leather protection footwear with soft rubber sole, safety harnesses, protective goggles, safety helmet and ear protectors).

Documentation will state all height variations compared to the initial drawings or designs, any possible roof truss mounting, problems and/or configuration faults, as well as the way in which these non-compliances will be resolved. This documentation shall be signed by both parties.

>INSTALLING ANTI-CONDENSATION MEMBRANES

STEP 2

The first sheet layer shall be laid by unrolling in parallel with the eaves, leaving approximately 10 cm of sheet overlapping the eaves fascia board. The 3 cm of membrane are necessary for the event in which the anticondensation flashing is displaced to the exterior in order to allow the mounting of the wooden box barge to the eaves.

The next rows, up to the ridge, shall be laid overlapping onto the width of the marking printed on the membrane. In the absence of the marking, the overlapping shall not be of less than 10 cm. In the valley area, for higher safety and in order to avoid overlapping mistakes, a continuous sheet strip 75 cm wide shall be mounted (½ of the sheet roll width) on the entire length.

The side sheet rows shall overlap on this sheet up to no more than 10 cm of the valley axis. The sheet shall be fastened using the staple hammer. The staples shall be fastened in the roof timbers area so as to allow for vertical battens. In the case of valleys, the fastening shall be performed in the area to be protected by the steel valley bordering batten.

WARNING!

The fastening of the membrane in other areas than the indicated ones may lead to condensation problems. In the case of cold roofs (with ventilation layer above the thermal insulation) a ventilation space shall be allowed in the ridge area.

>VERTICAL BATTENS INSTALLING

STEP 3

The function of the vertical batten is to ensure a ventilation space underneath the roofing. The height of the vertical batten can range between 25 and 50 mm. Thicker battens increase the ventilation space, ensuring more efficient outlet of vapours crossing the anti-condensation sheet. The minimum recommended section is of 25 mm x 50 mm. For adequate air circulation, it has to enter at the eaves level and exit at the ridge level, through free spaces or through special ventilation accessories.

WARNING!

Before installing the vertical batten you should install the gutter brackets, first under the anti-condensation membrane, directly on the hard boarding. Then, the gutters and the respective accessories (gutter joints, miters, funnel pipes) have to be installed and after that the anticondensation flashing).
The vertical batten shall be installed over the anti-condensation sheet, in the area of each roof timber oriented towards the eaves towards the ridge– fig. 2. Before being installed, Novatik sealing tape shall be fixed to the vertical battens. The sealing tape is used to hydroisolate holes made by nails or screws in the anti-condensation membrane, preventingthus accidental infiltration. In case you use gutters of 125 mm it is recommended to install the vertical batten with 40 mm higher than the front eaves edge of the hard boarding. The first horizontal batten shall be installed as well 40 mm higher. Such procedure becomes optional in the case of the 150 mm gutters.These represent preventive measures which are designed to prevent the overflow of the rainwater over the gutter in case of substantial rainfalls.
The absence of these battens leads to ventilation obstructions and, at the same time, to the retention of condensation by the horizontal battens.
The same batten size shall also be used for the valleys boarding. The battens bordering the valley shall be mounted with a distance of 165 mm on each side of the valley.

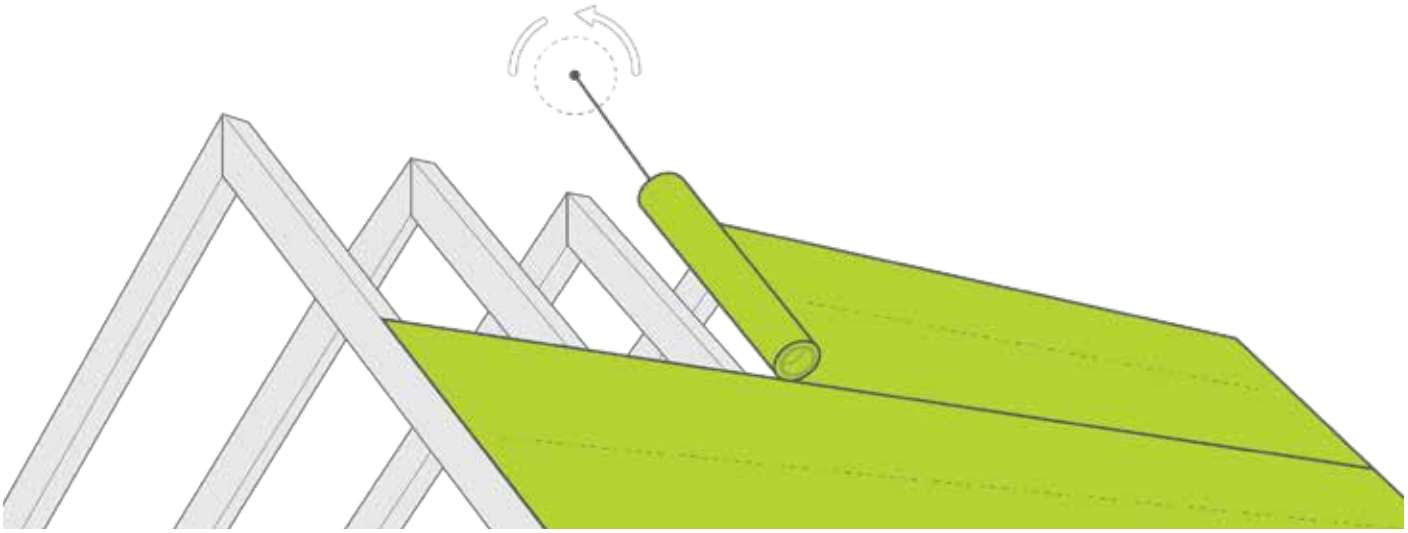


fig.1 ROOFING MEMBRANE INSTALLATION

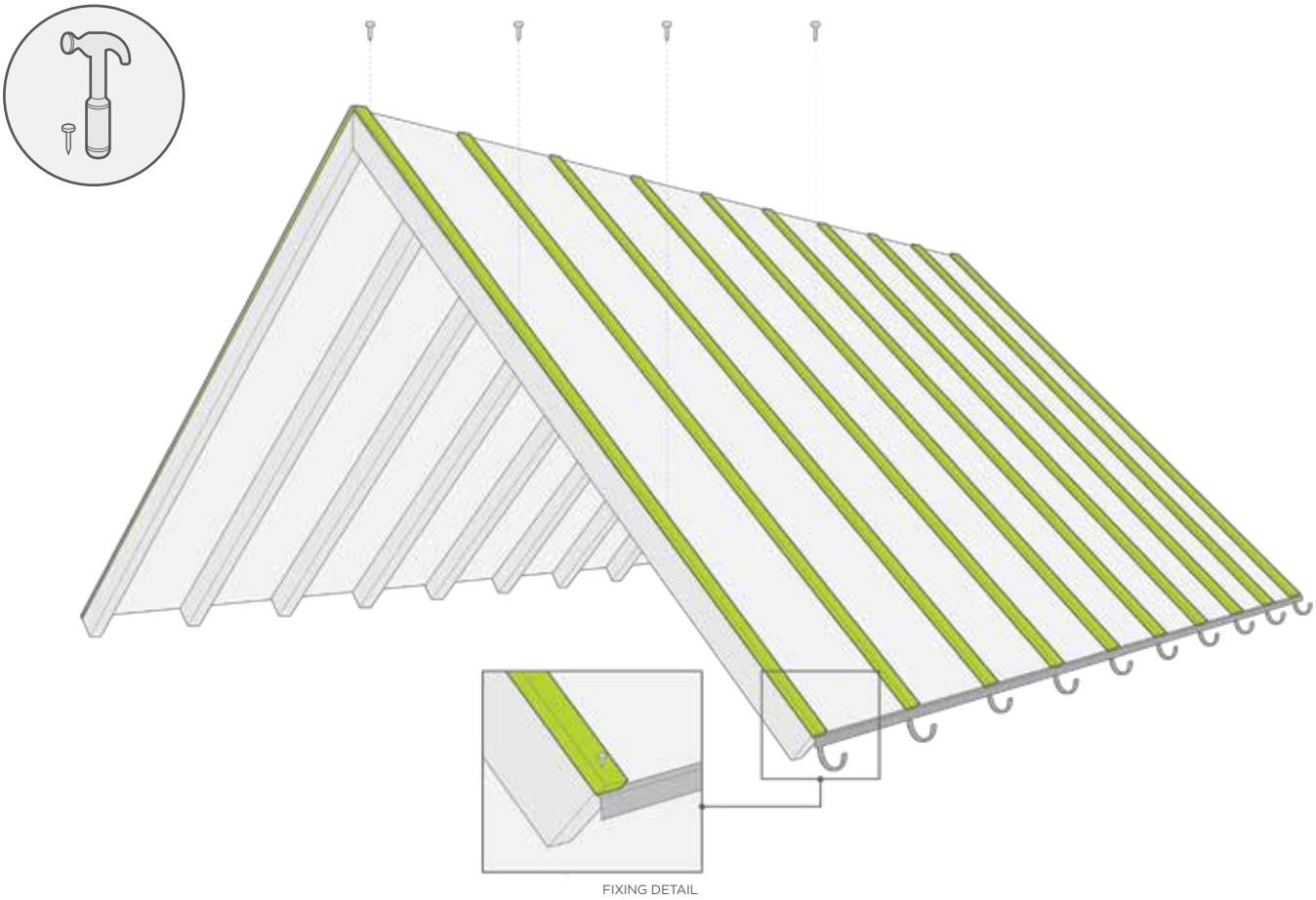


fig.2 INSTALLING OF THE VERTICAL BATTENS

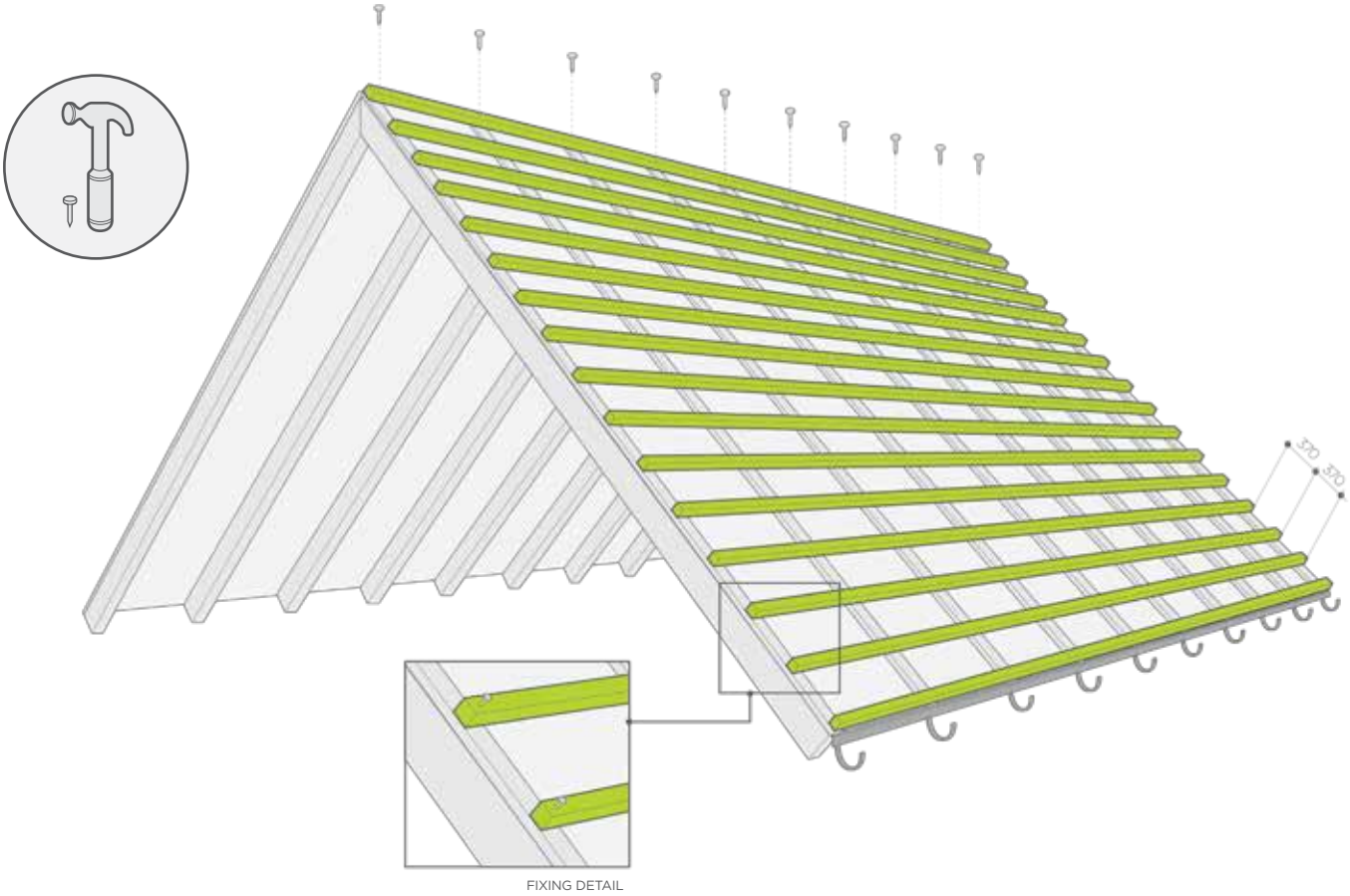


fig.3 INSTALLING OF THE HORIZONTAL BATTENS

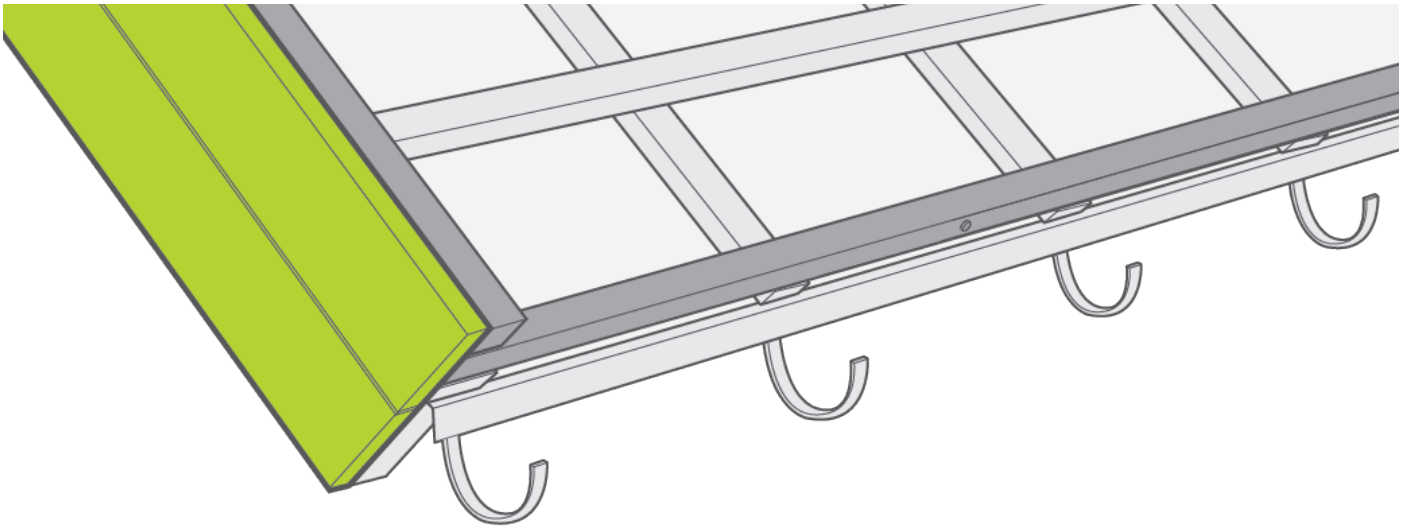


fig.4 INSTALLING BATTENS FOR EAVES APRON AND FASCIA BOARD

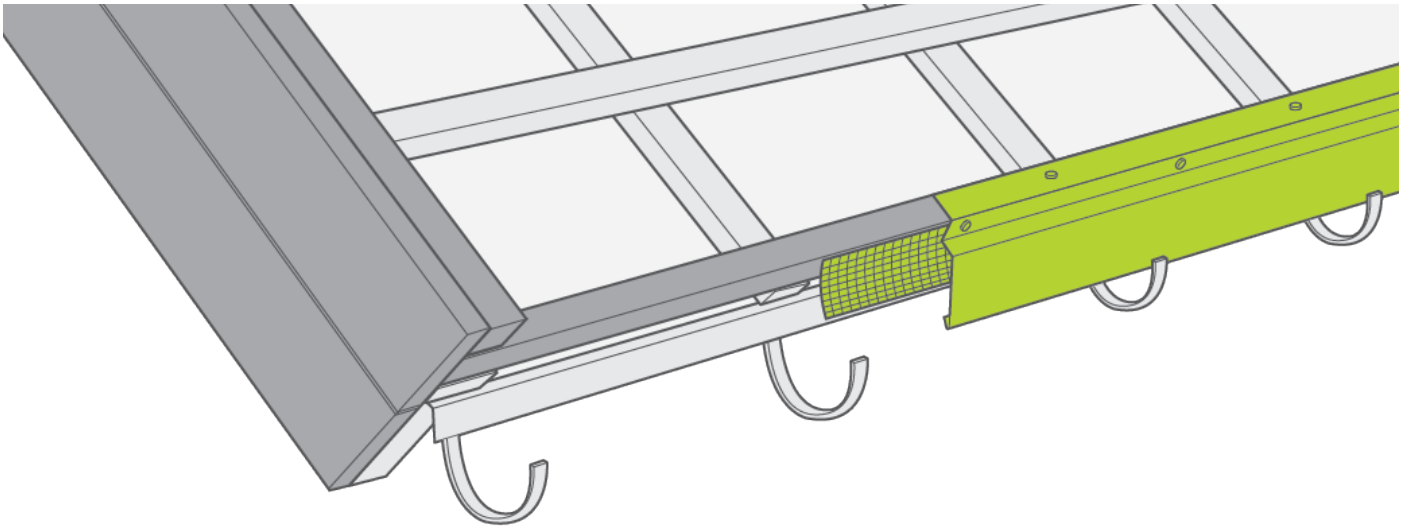


fig.5 5 INSTALLING BIRD PROTECTION GRID AND EAVES FLASHING

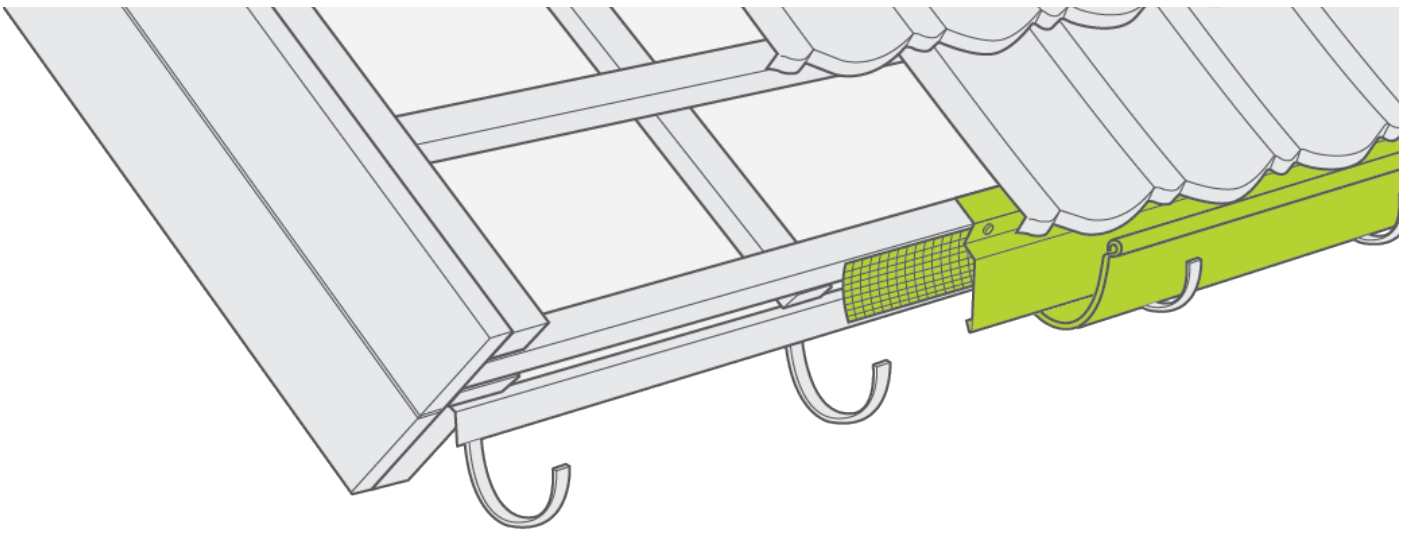


fig.6 EAVES DETAIL WITH ANTICODENSATION FLASHING, BIRD PROTECTION GRID AND EAVES FLASHING

>INSTALLATION WITHOUT EAVES FLASHING

In the absence of the eaves flashing the vertical strips and the first horizontal batten/strip will be pulled back 40 mm towards the ridge. This way, the first horizontal batten will be protected by the direct action of humidity.

The first horizontal batten will have a height of 35 mm (5 mm smaller than the other vertical strips to maintain the same pitch). The next horizontal batten/strip will be installed at 330 mm from the first strip (measuring from the bottom of the first batten to the bottom of the second strip).

Fixing the first module in the eaves area will be done at the first strip perpendicular/at right angles strip/batten to the surface module, about 40- 50 mm from the center of the concave area.

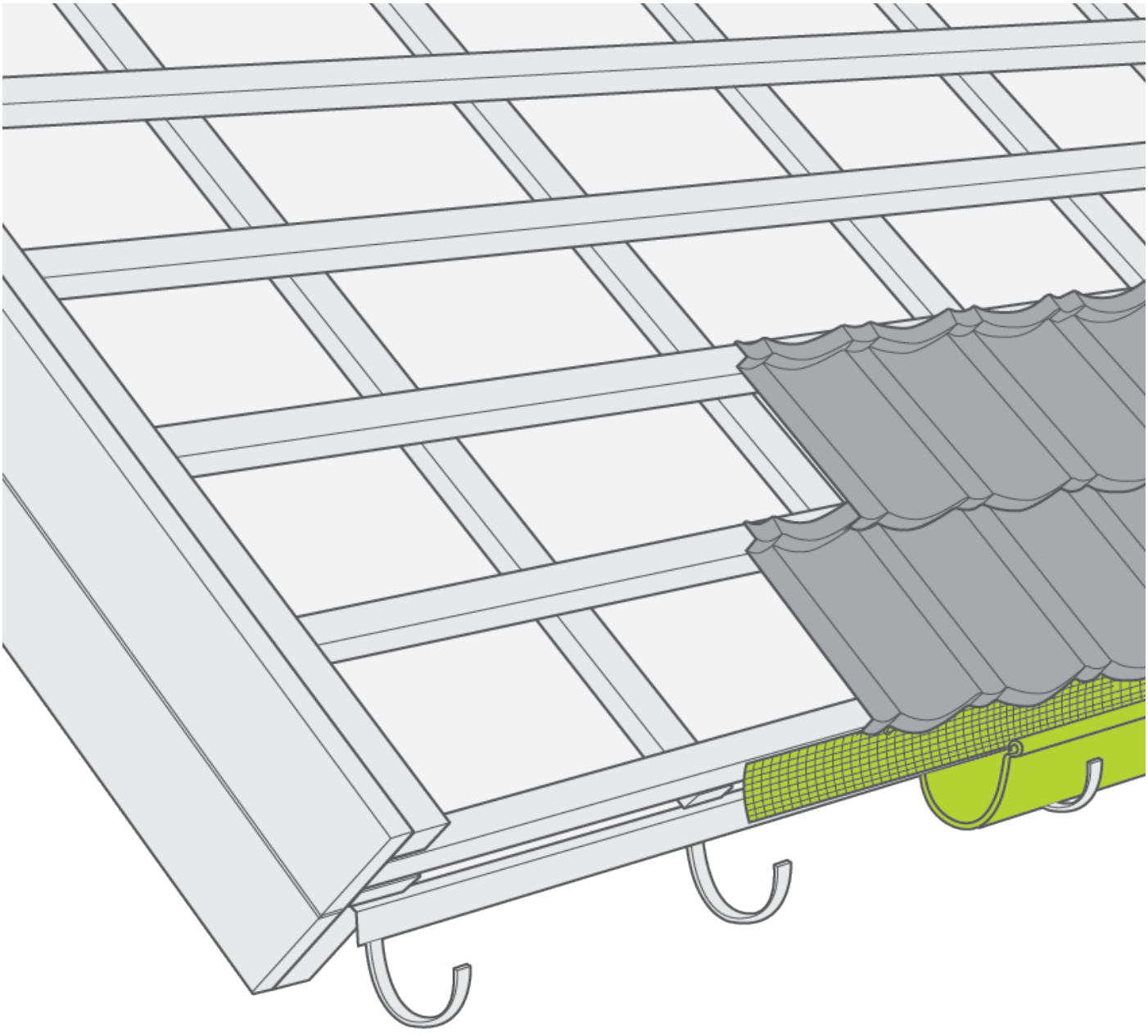


fig.7a INSTALLING OF HORIZONTAL BATTENS/STRIPS

>INSTALLATION OF VERTICAL BATTENS - ALTERNATIVE

STEP 3.1

Succesion of the installing steps

1. **Anti-codensation flashing**
2. **Roofing membrane**
3. **Vertical batten**
4. **Bird protection grid**
5. **Brackets**
6. **Horizontal batten**
7. **Gutter**
8. **Eaves flashing**
9. **Modules**

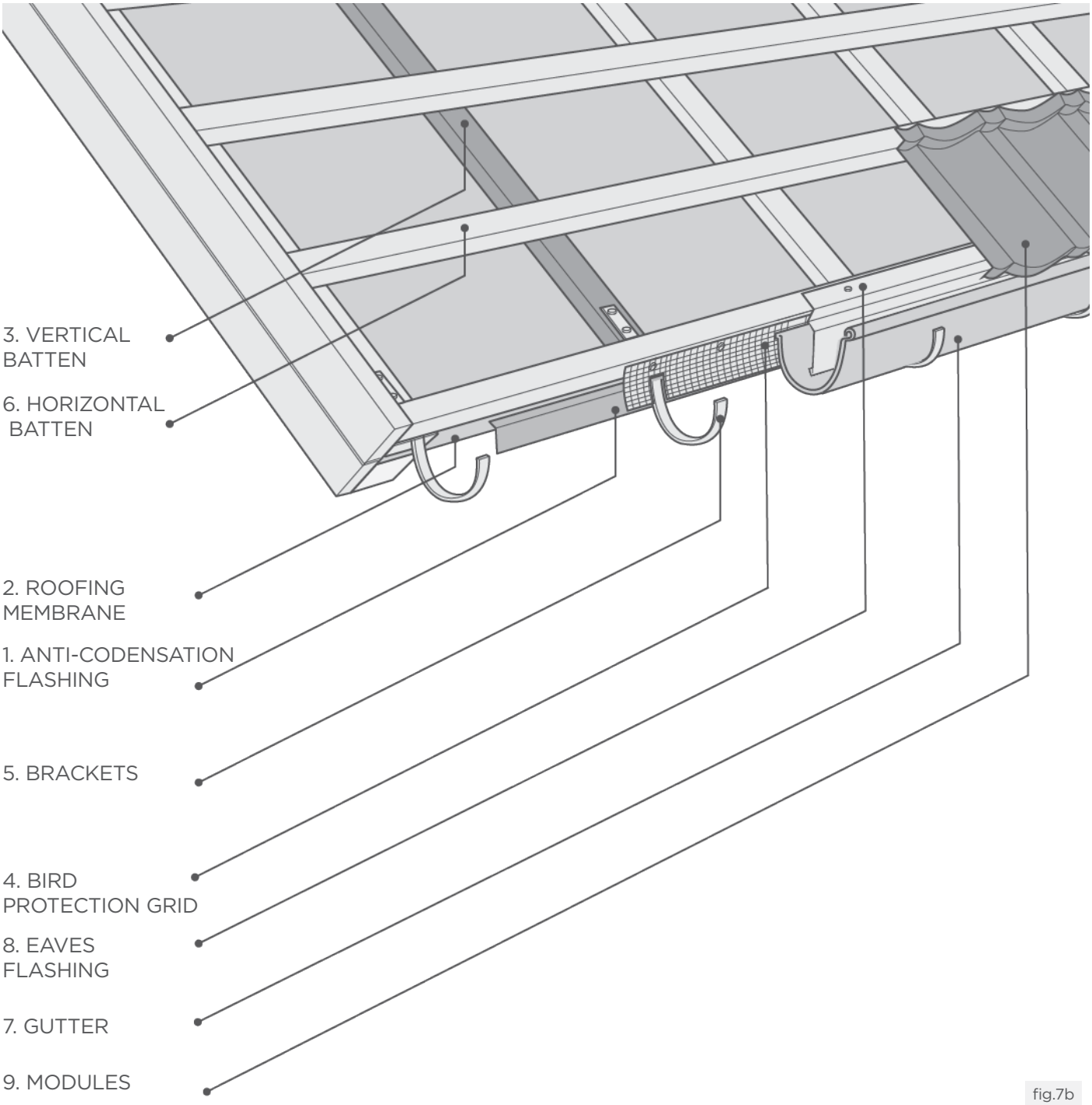


fig.7b

>FIXING VALLEYS

The valleys shall be installed from the downwards towards the ridge with an overlap of min. 100 mm on each valley section. They shall be fastened onto the boarding battens, using sheet clips.

STEP 4

fig.8 FIXING VALLEY AND HORIZONTAL BATTENS

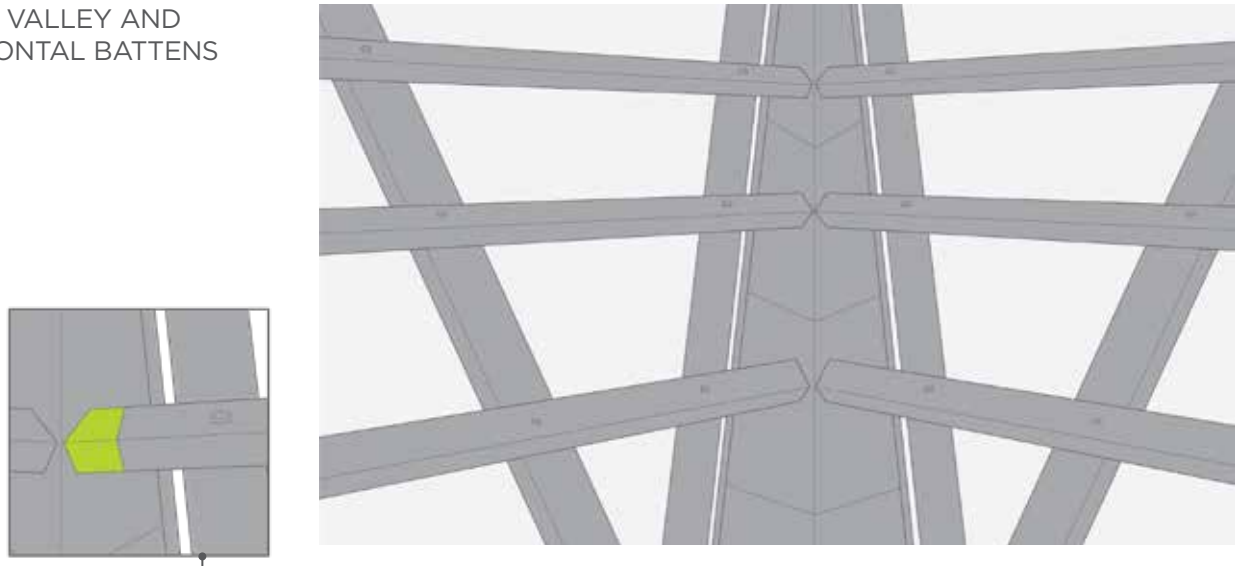


fig.9 LAYOUT OF HORIZONTAL BATTENS

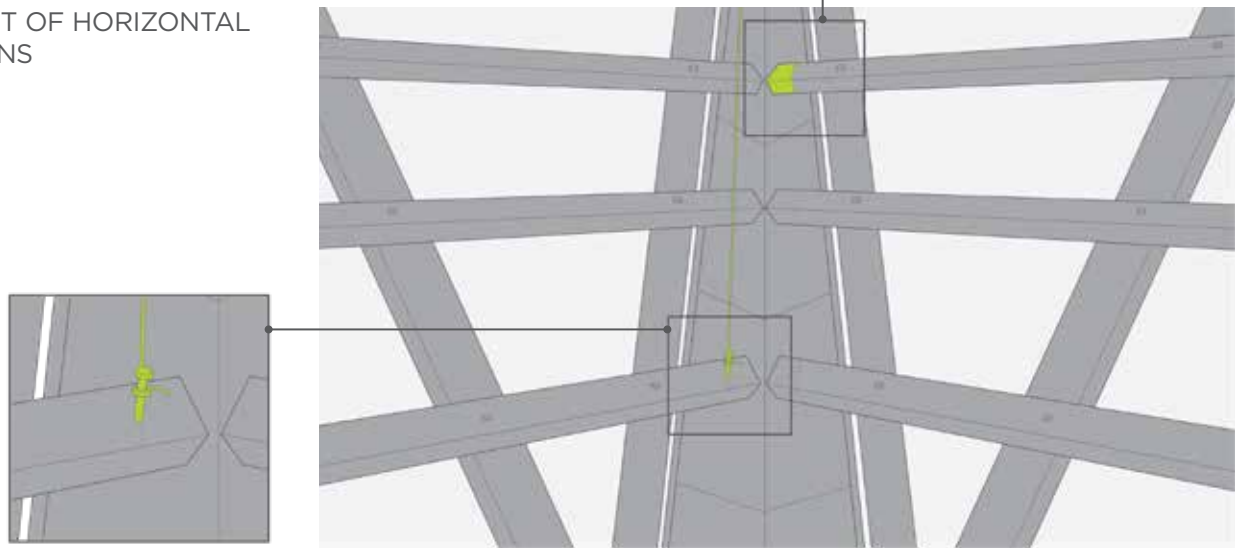
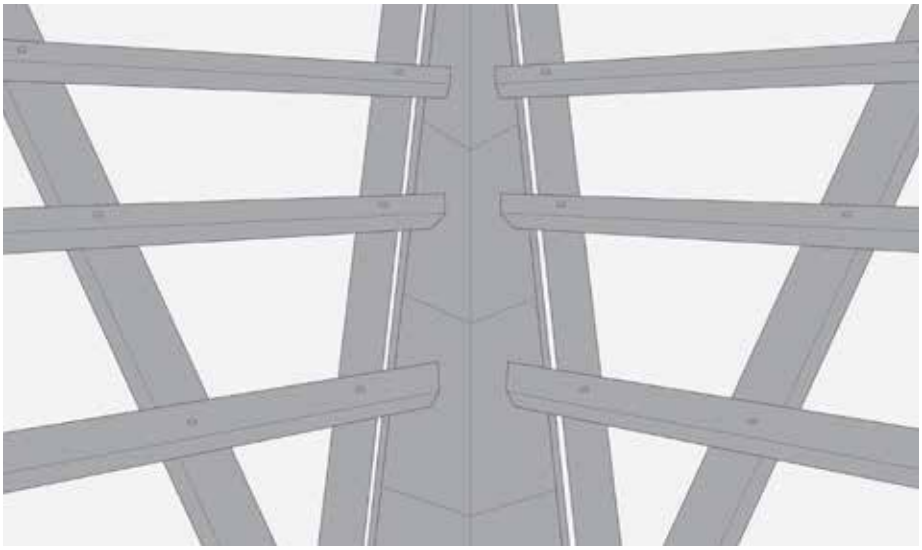


fig.10 HORIZONTAL BATTEN CUTTING



> INSTALLING HORIZONTAL BATTENS

STEP 5

The purpose of horizontal battens is to support the tiles and to allow for the fastening .They can have a section of 40 mm x 50 mm or of 50 mm x 50 mm and they are mounted from the eaves towards the ridge maintaining the distance of 370 mm (measured from the lower area of the battens). If the area to be covered is framed by valleys or by one valley and one box barge, the horizontal batten shall be installed from the upwards towards the downwards direction, reducing technological losses (which can sometimes be substantial). The same rule will apply for surfaces requiring water collection in the large funnel.

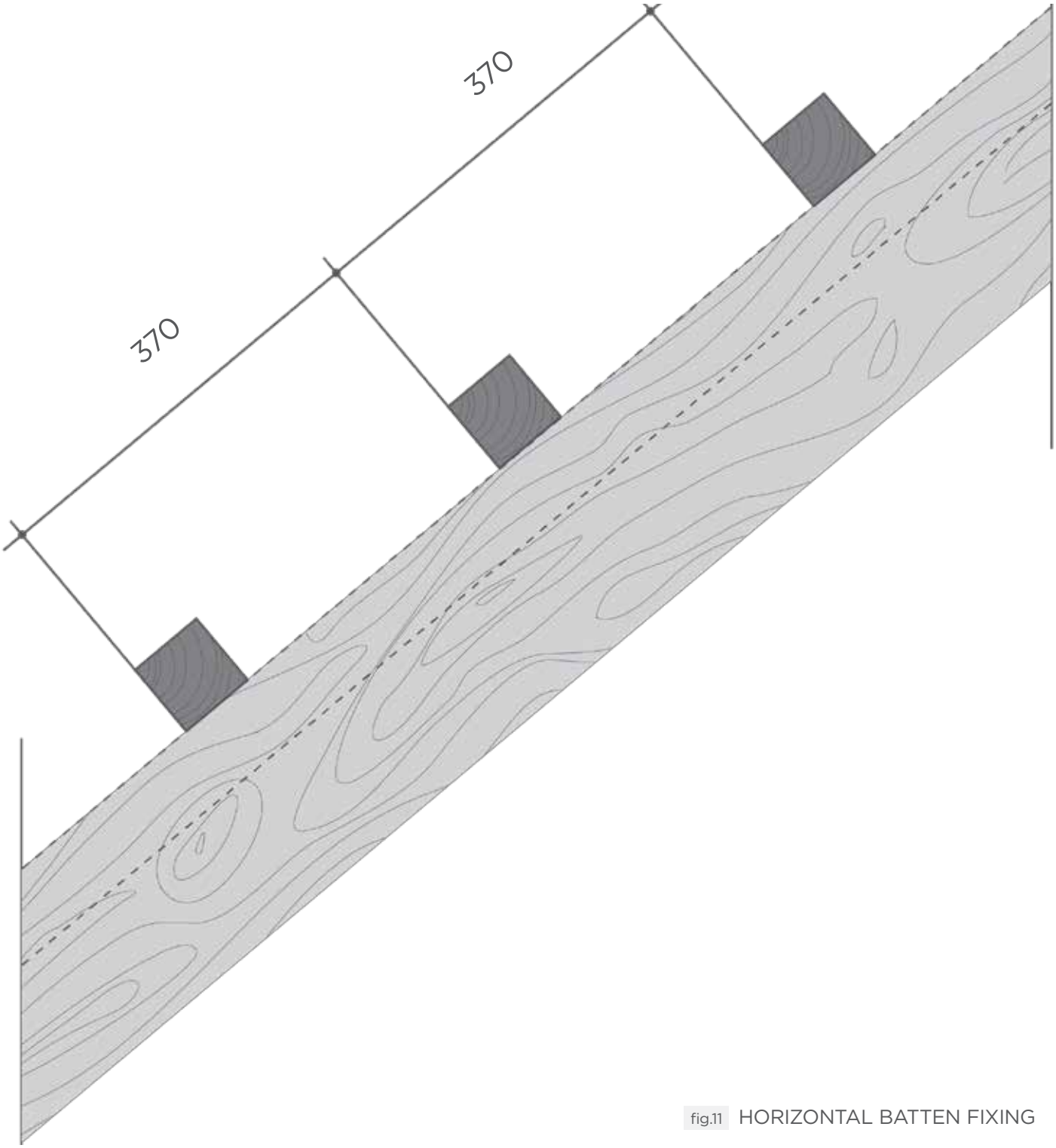


fig.11 HORIZONTAL BATTEN FIXING

> INSTALLING ADDITIONAL BATTENS

These can have a section of 40 mm x 50 mm or 50 mm x 50 mm.

STEP 6

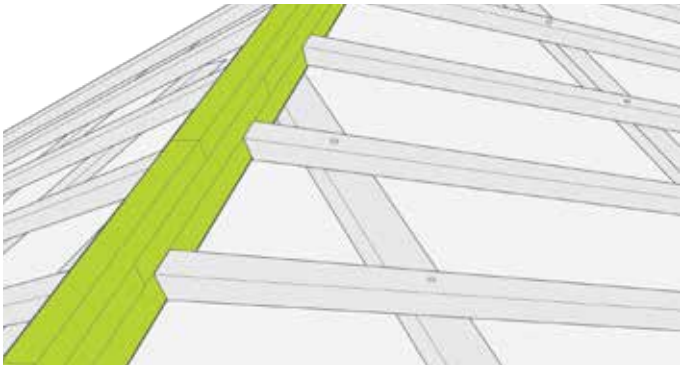


fig.12 FIXING BATTENS FOR A BEVELED RIDGE

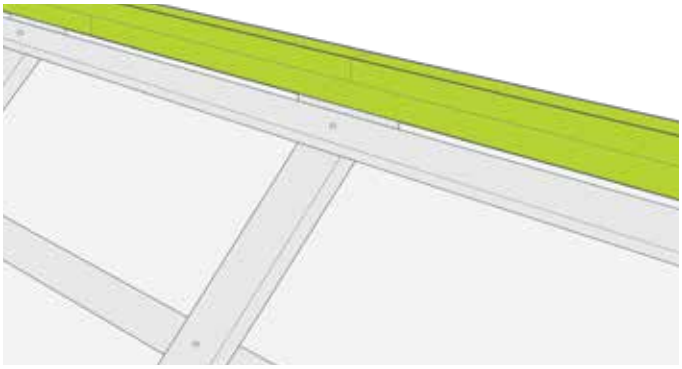


fig.13 FIXING BATTENS FOR A HORIZONTAL RIDGE

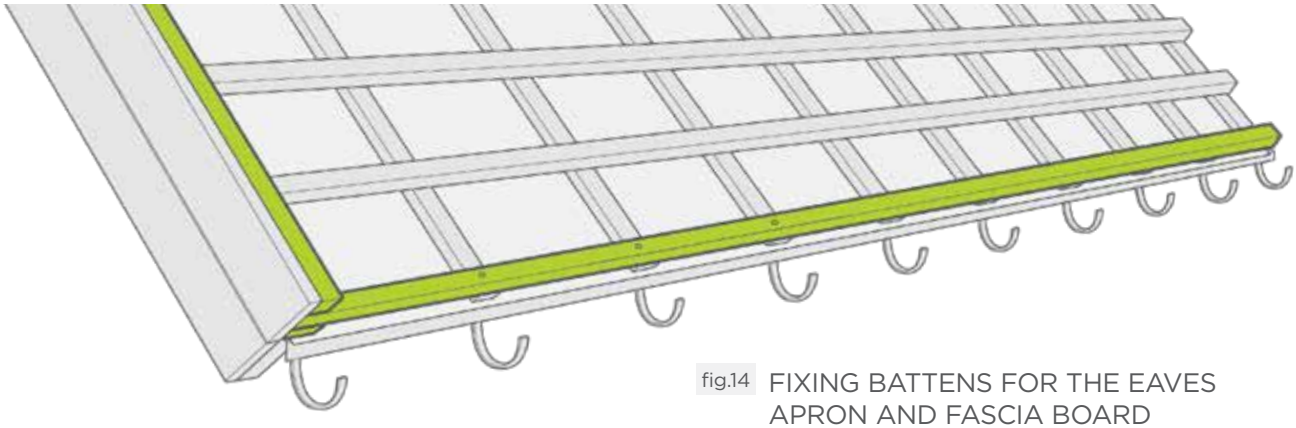


fig.14 FIXING BATTENS FOR THE EAVES APRON AND FASCIA BOARD

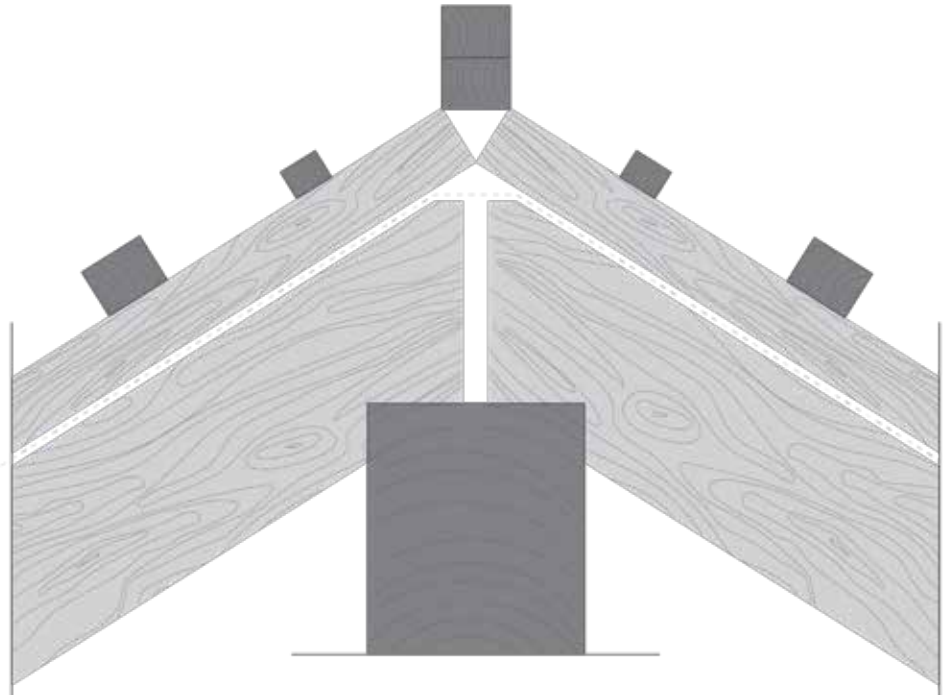


fig.15 FIXING BATTENS FOR A HORIZONTAL RIGDE – SECTION

> INSTALLING TILES

STEP 7

Place the tiles on the second row in the ridge area (see pict. 16a and 16b) and fasten as shown on fig. 17a and fig. 17b. The following rows will be fastened according to fig. 21a- 24b and can be performed for Novatik METAL CLASSIC using a 500 g hammer or nail gun. For Novatik METAL SLATE or Novatik METAL WOOD the fastening will be done with screws with rubber/gasket, using an electric power drill. The modules shall be placed interlaced (see fig. 18a and fig.18b). For Novatik METAL CLASSIC and Novatik METAL WOOD, the overlapping can be done both to the left (fig. 19), and also to the right (fig. 20), but it shall be made in a single direction for each individual surface. For Novatik METAL SLATE, the overlapping can be done only to the right (fig. 18a and fig. 19a). To ensure additional safety for installers, it is recommended not to step or work on the roof when wet.

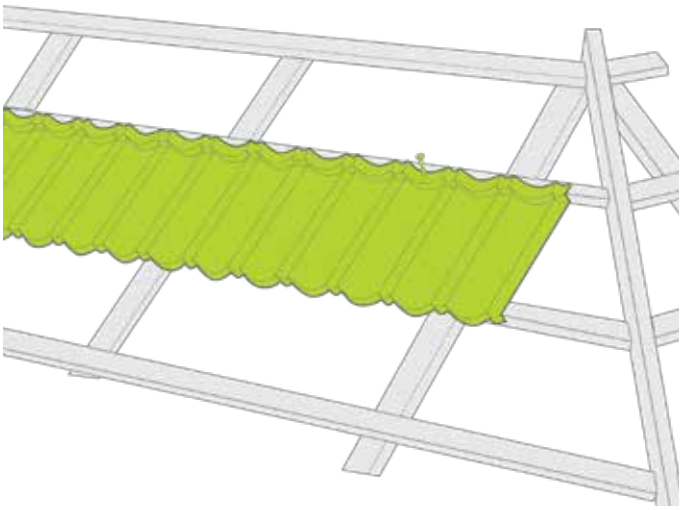


fig.16a INSTALLING OF ROW 2 IN THE RIDGE AREA

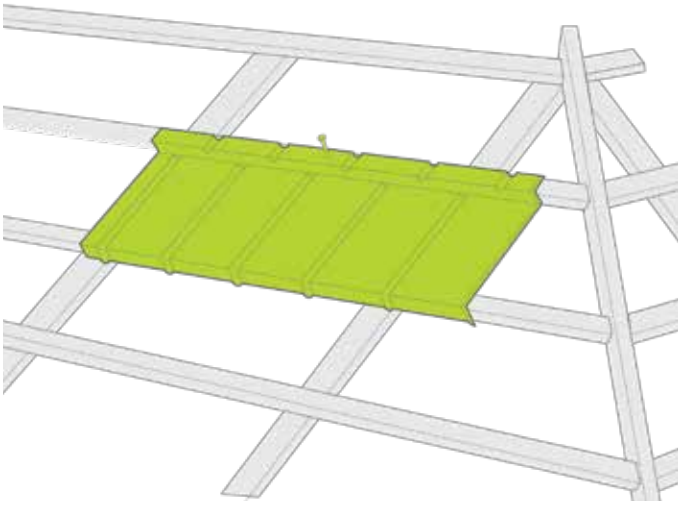


fig.16b INSTALLING OF ROW 2 IN THE RIDGE AREA

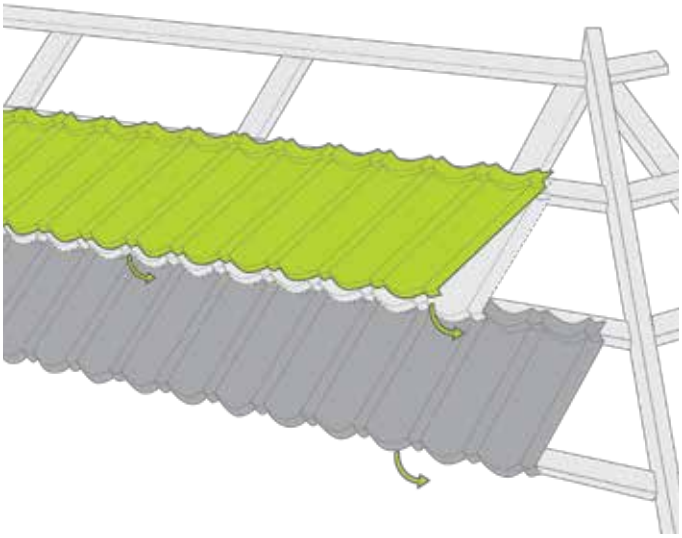


fig.17a ROWS OVERLAPPING

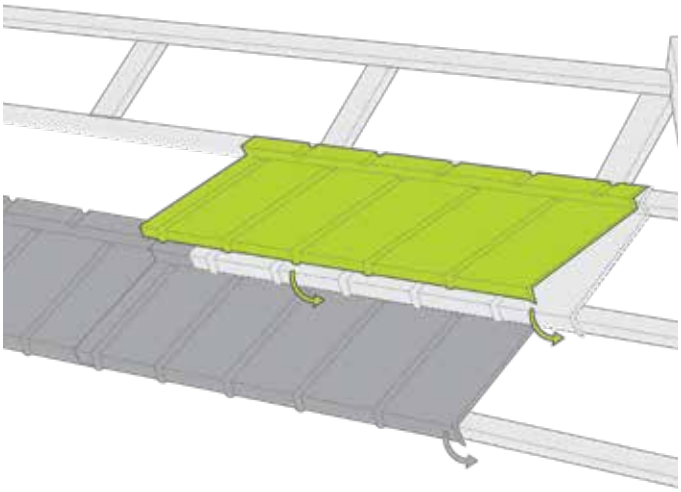


fig.17b ROWS OVERLAPPING

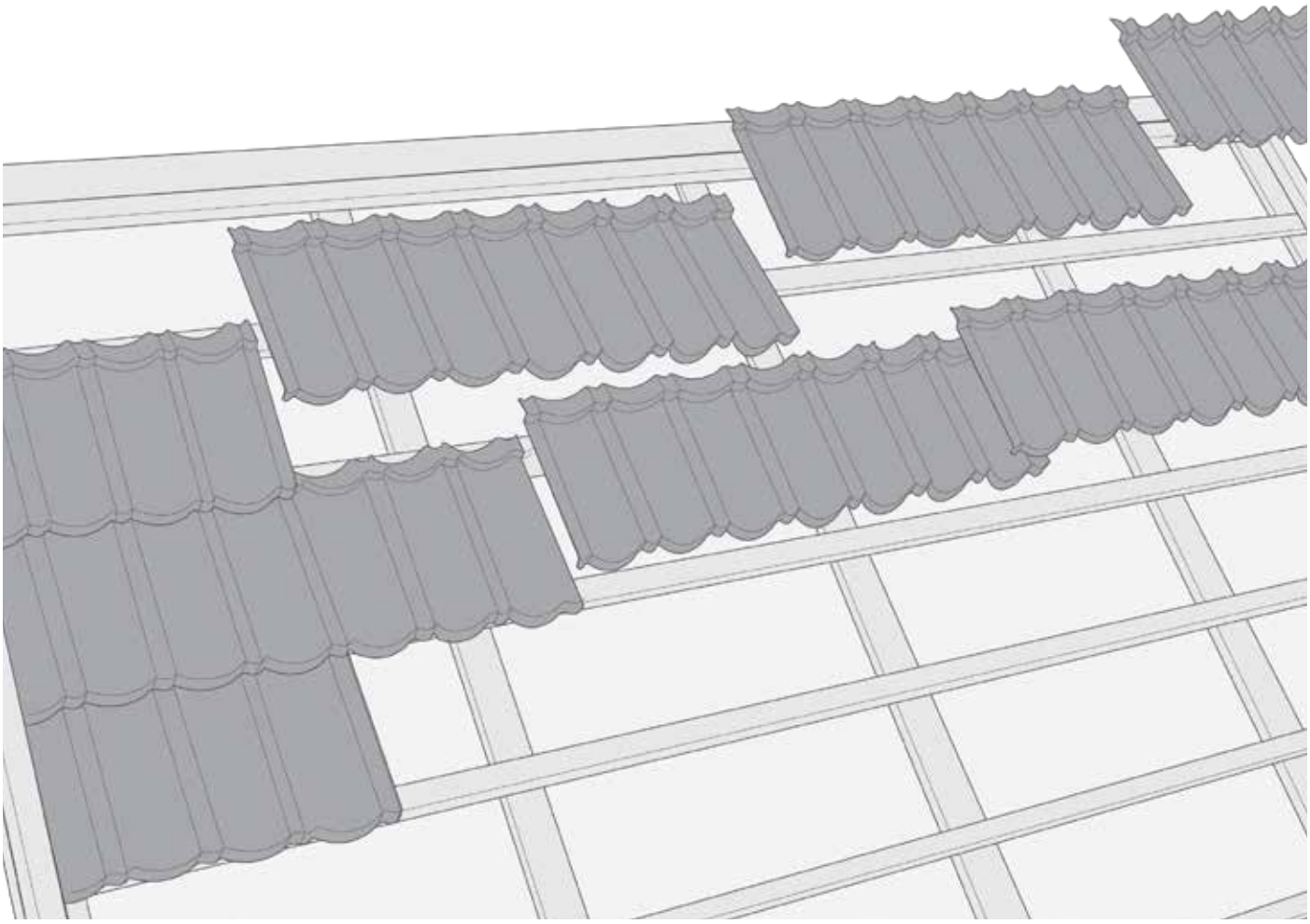


fig.18a INTERLACED INSTALLATION OF THE MODULES

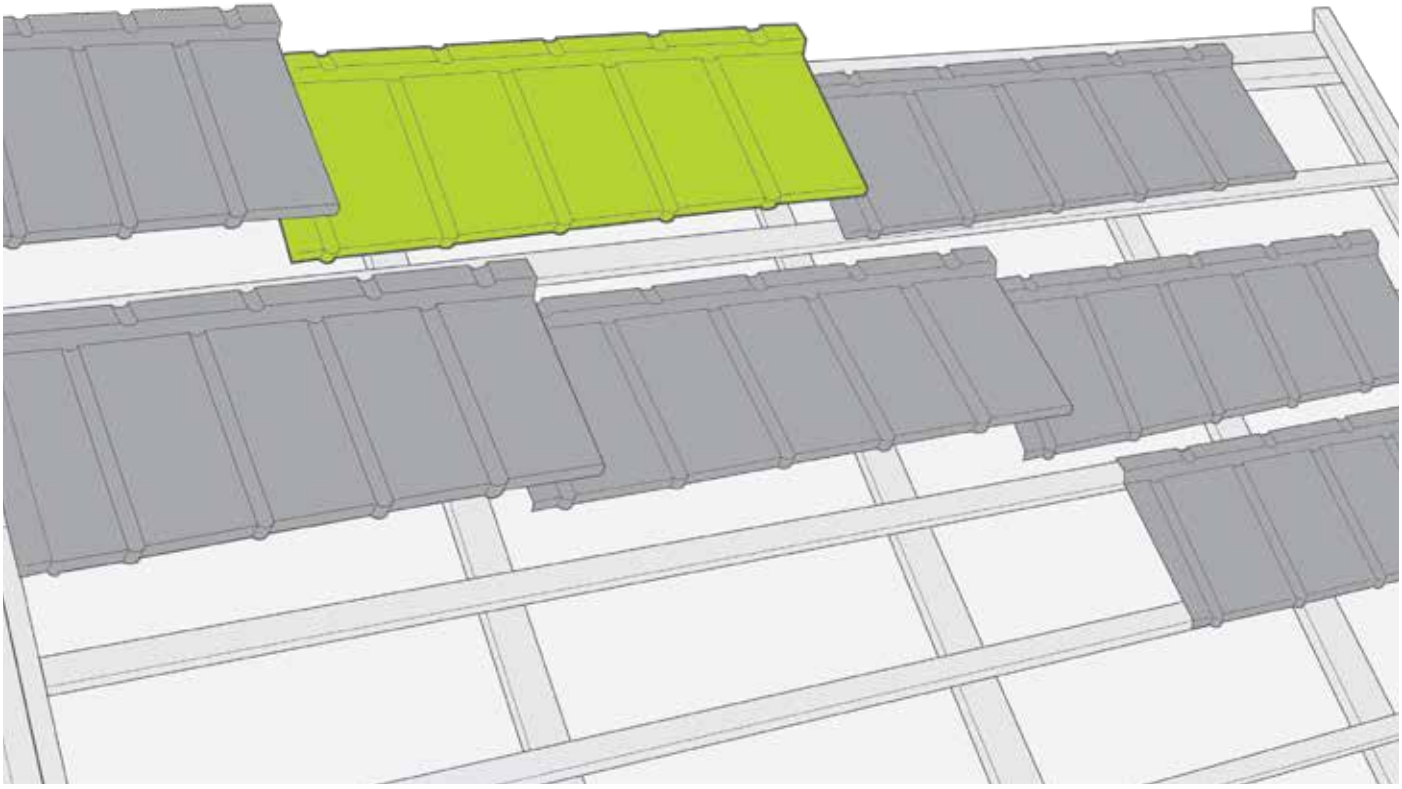


fig.18b INTERLACED INSTALLATION OF THE MODULES

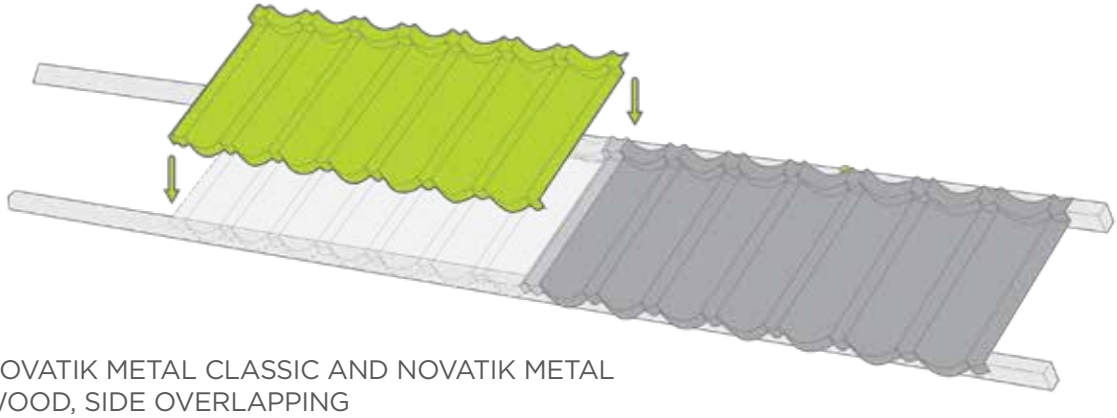


fig.19a NOVATIK METAL CLASSIC AND NOVATIK METAL WOOD, SIDE OVERLAPPING

MANUAL FIXING

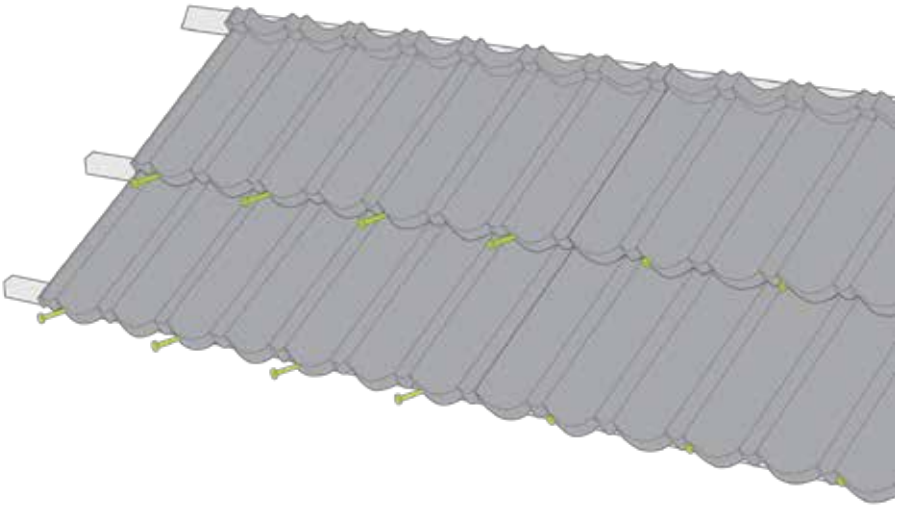


fig.20a NOVATIK METAL CLASSIC, NAILS FASTENING POINTS

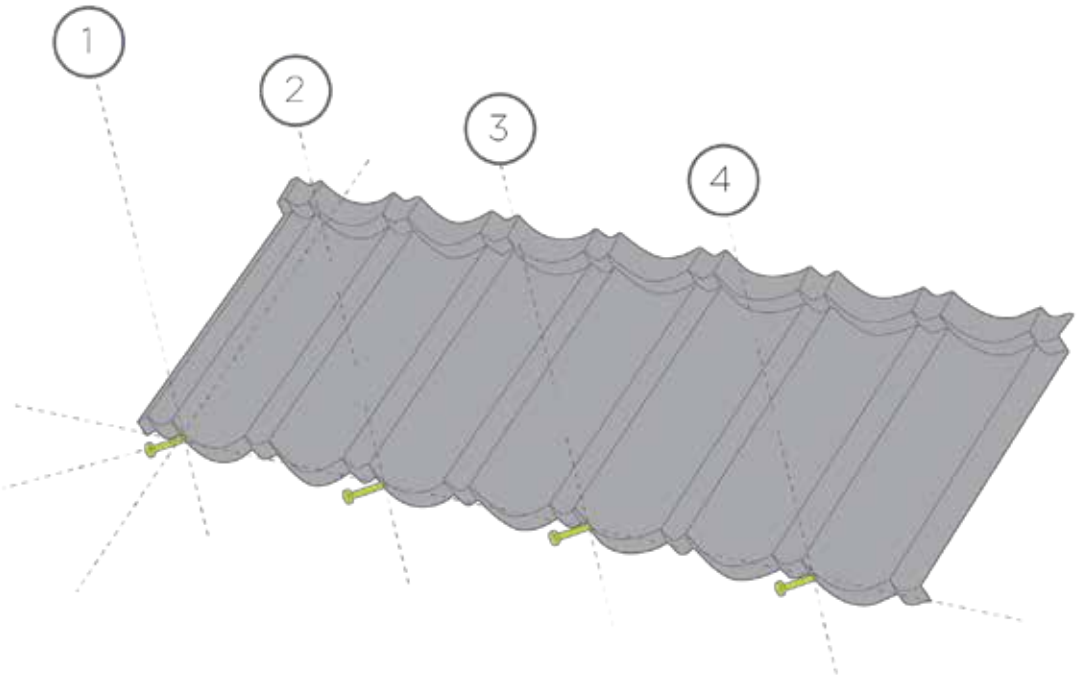


fig.21a NOVATIK METAL CLASSIC, FASTENING NAIL POSITIONS

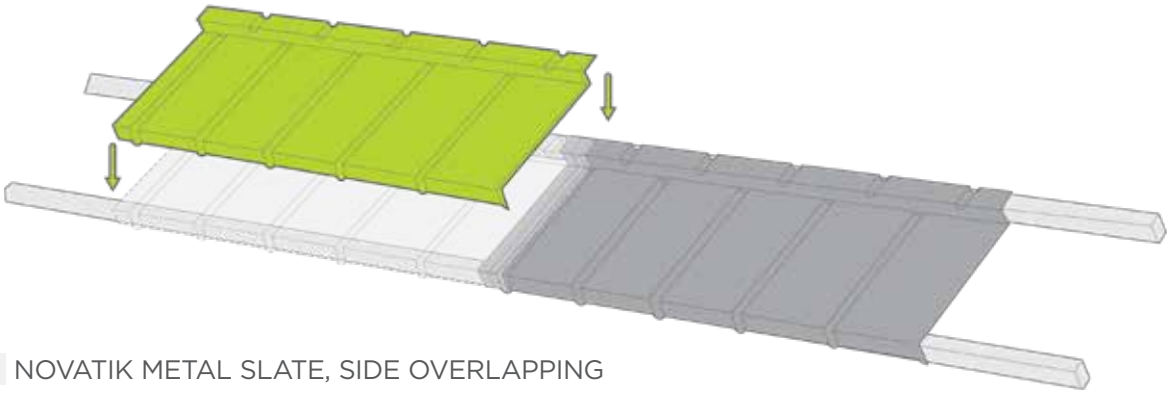


fig.19b NOVATIK METAL SLATE, SIDE OVERLAPPING

NOVATIK METAL SLATE AND NOVATIK METAL WOOD, FIXING USING ELECTRIC POWER DRILL

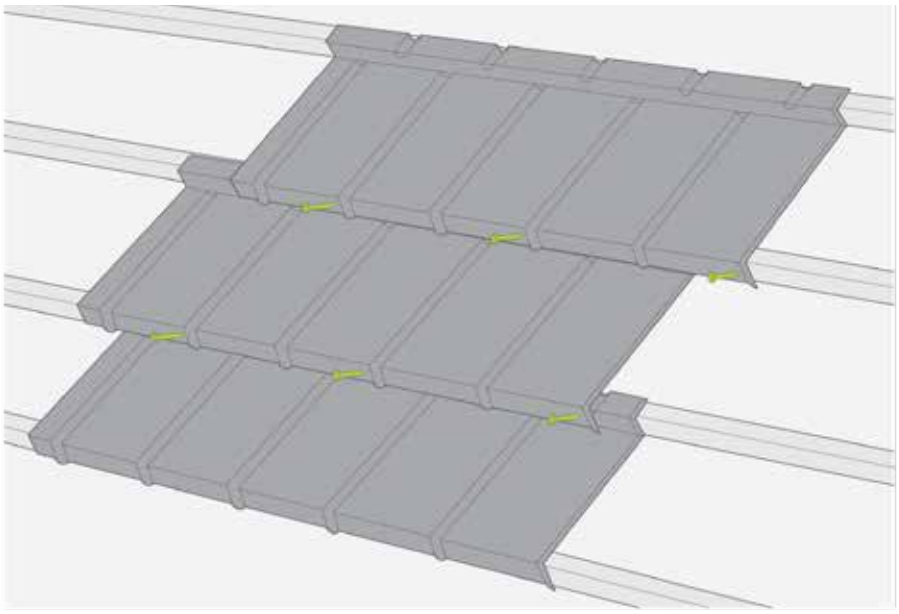


fig.20b NOVATIK METAL SLATE AND NOVATIK METAL WOOD, NAILS FASTENING POINTS

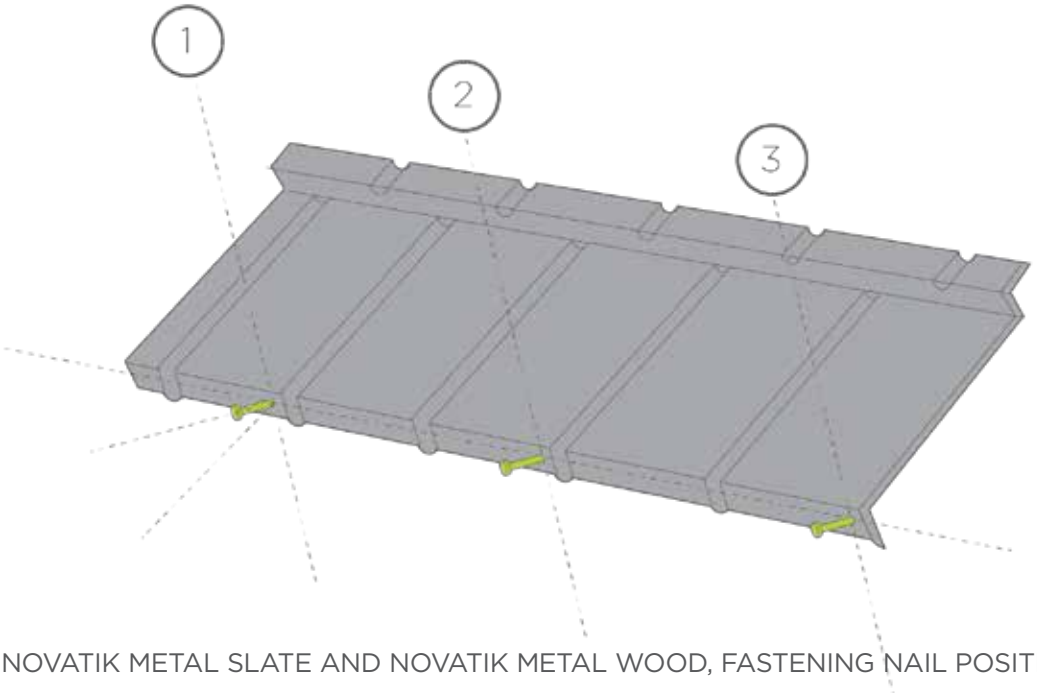


fig.21b NOVATIK METAL SLATE AND NOVATIK METAL WOOD, FASTENING NAIL POSITIONS

The cut tiles used in the ridge, box barge, side (wall) flashing shall be bent approx. 40-50 mm upwards (fig. 22; 26; 27; 29; 30; 32; 35; 37; 38; 39) and downwards in the case of valleys (fig. 23).

The used cut tiles shall include at least one whole tile for secure installing. Bends shall be performed using a bender, hand bender or the rubber hammer.

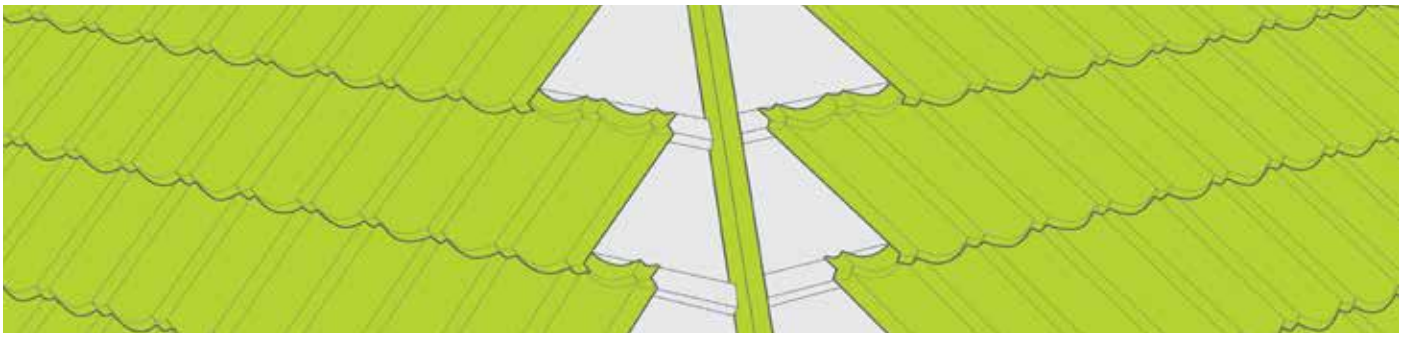


fig.22 INSTALLING TILES IN THE INCLINED RIDGE AREA

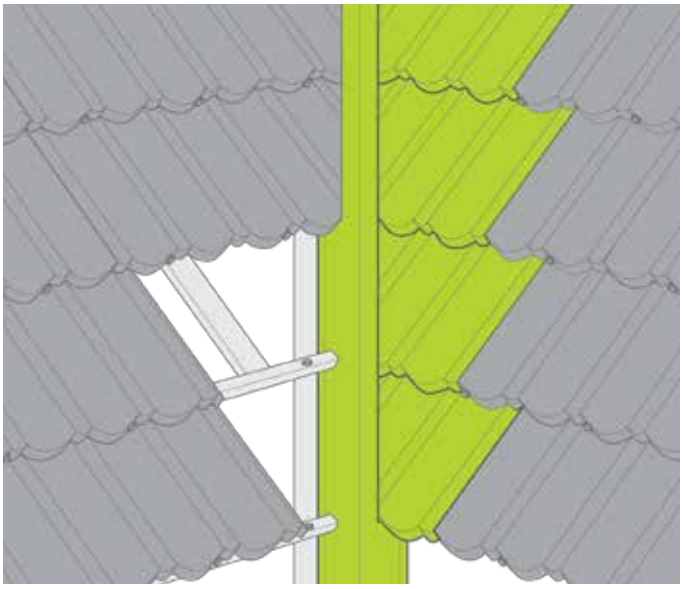


fig.23 INSTALING AND BENDING VALLEYS

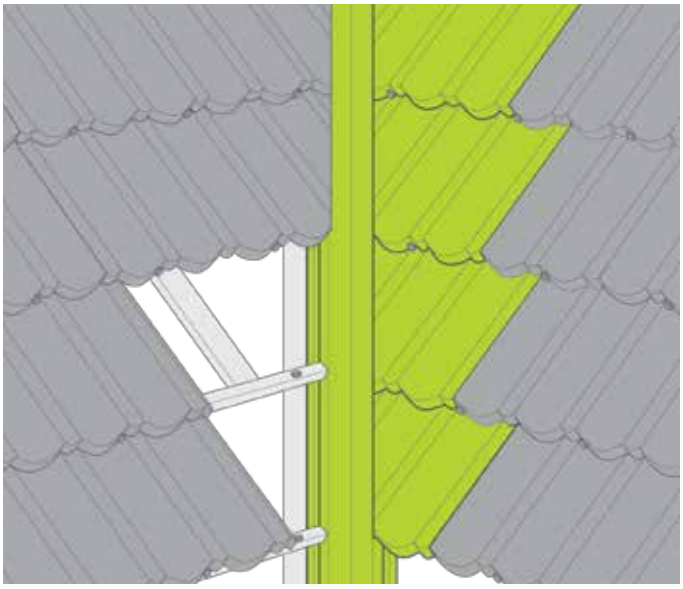


fig.24 INSTALLING VALLEYS WITHOUT BENDING

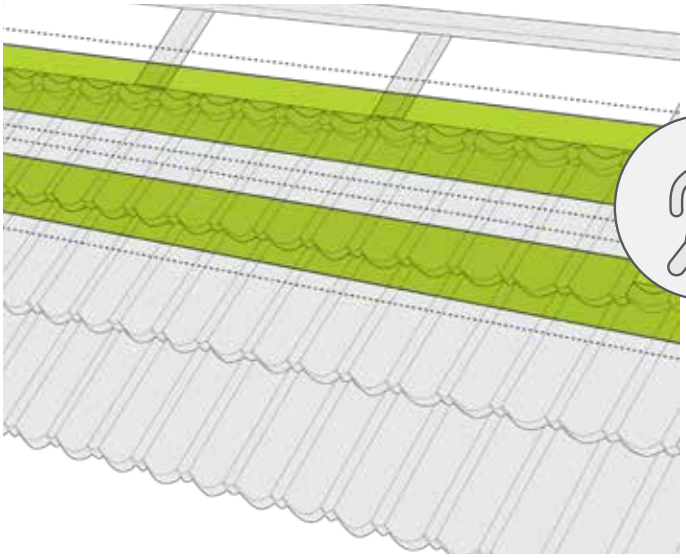


fig.25a RECOMMENDED AREAS FOR MODULES SURFACE NOVATIK METAL CLASSIC

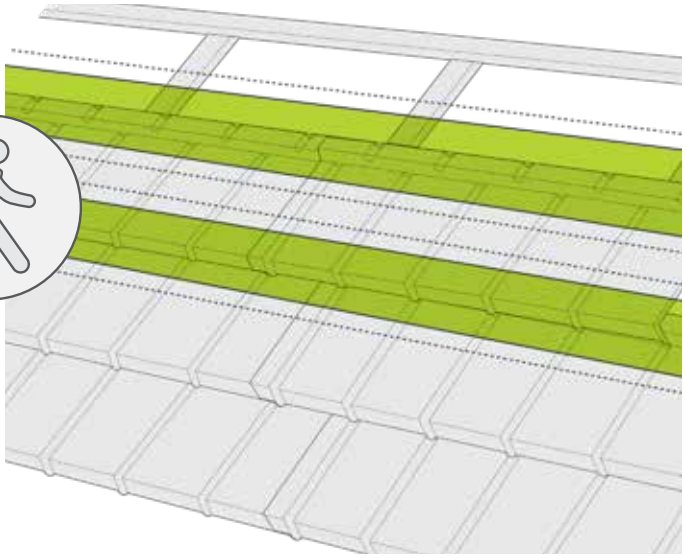


fig.25b RECOMMENDED AREAS FOR MODULES SURFACE NOVATIK METAL SLATE OR NOVATIK METAL WOOD

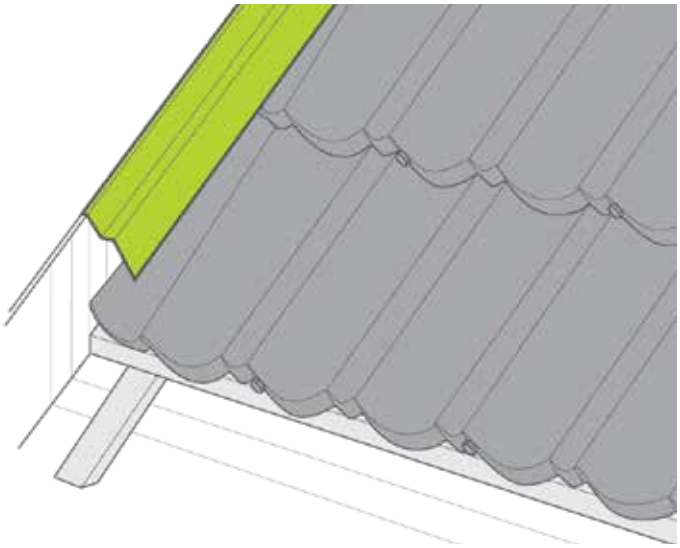


fig.26 FIXING WALL FLASHINGS

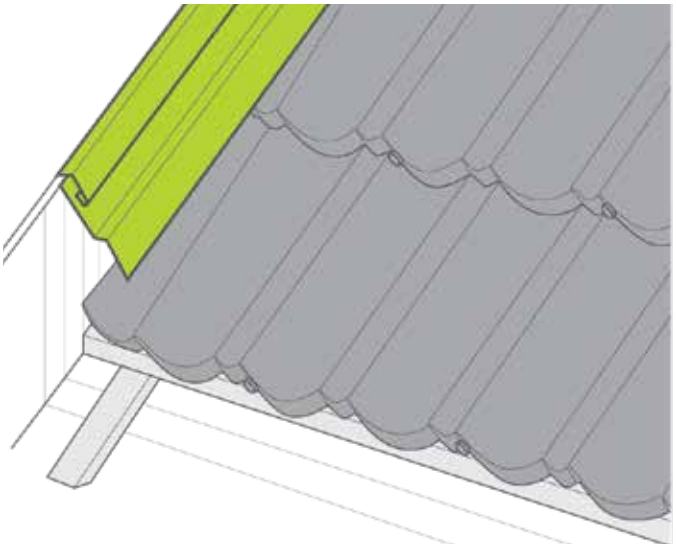


fig.27 INSTALLING WALL FLASHINGS (ALTERNATIVE)

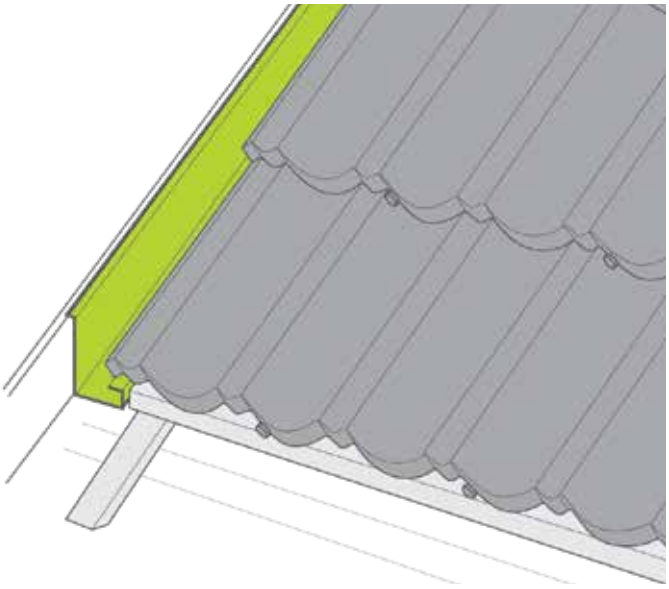


fig.28 INSTALLING OBLIQUE WALL FLASHINGS. WITH BENDING VERSION

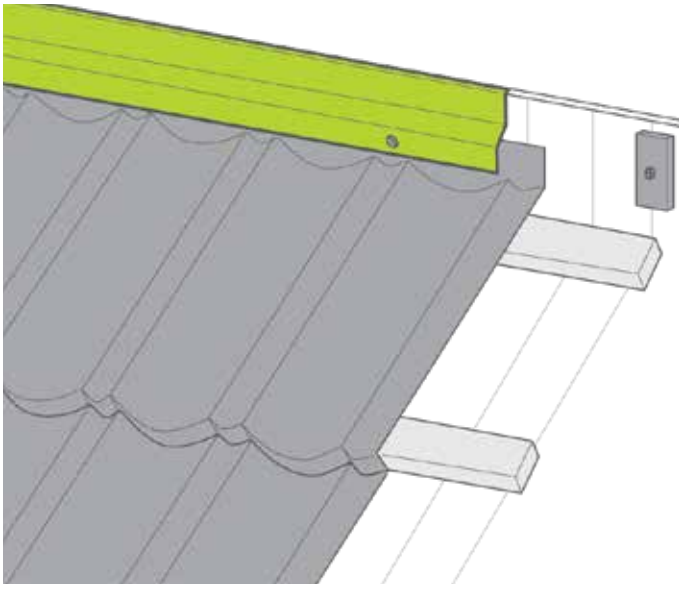


fig.29 FIXING HORIZONTAL FLASHINGS

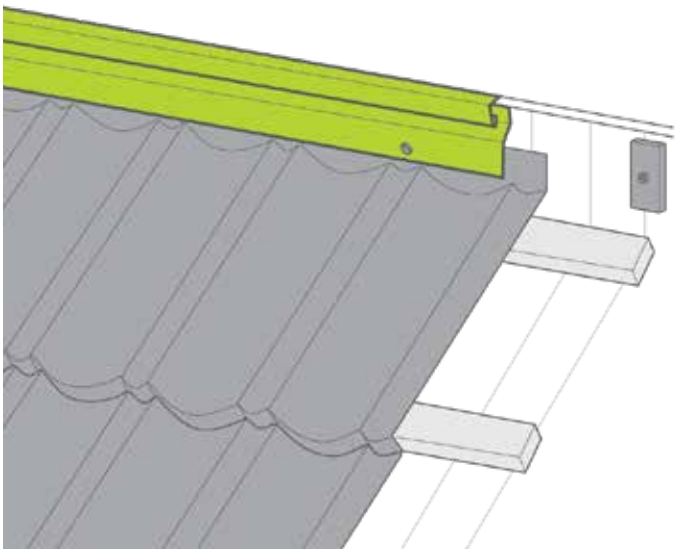


fig.30 FIXING HORIZONTAL FLASHINGS (ALTERNATIVE)

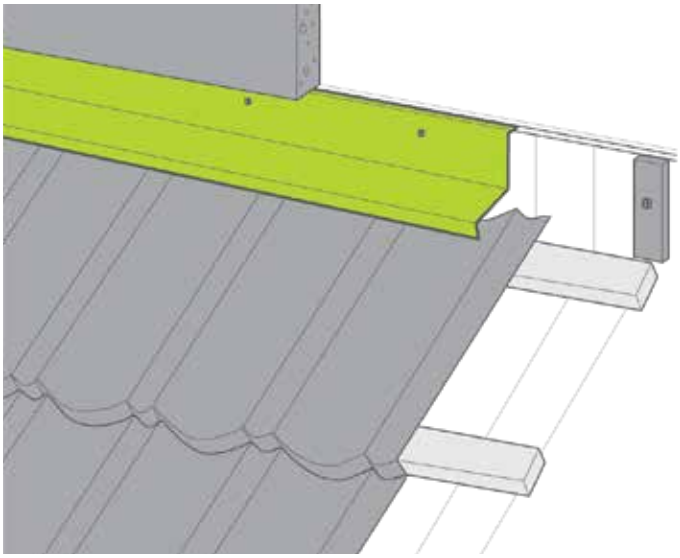


fig.31 FIXING HORIZONTAL WALL FLASHINGS. WITHOUT BENDING VERSION

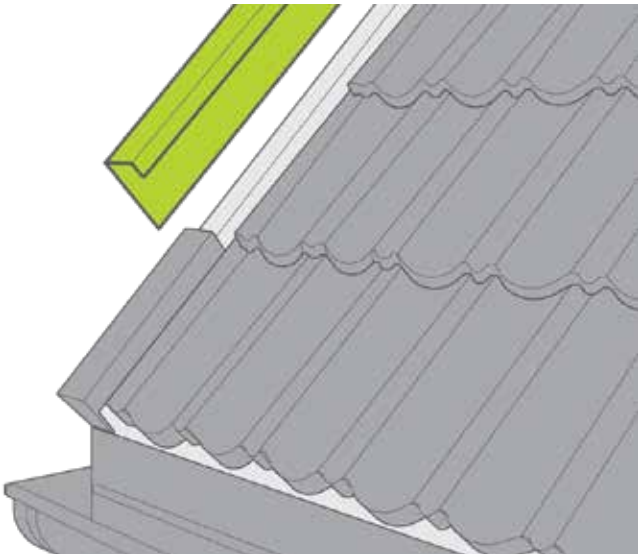


fig.32 INSTALLING FASCIA BOARDS

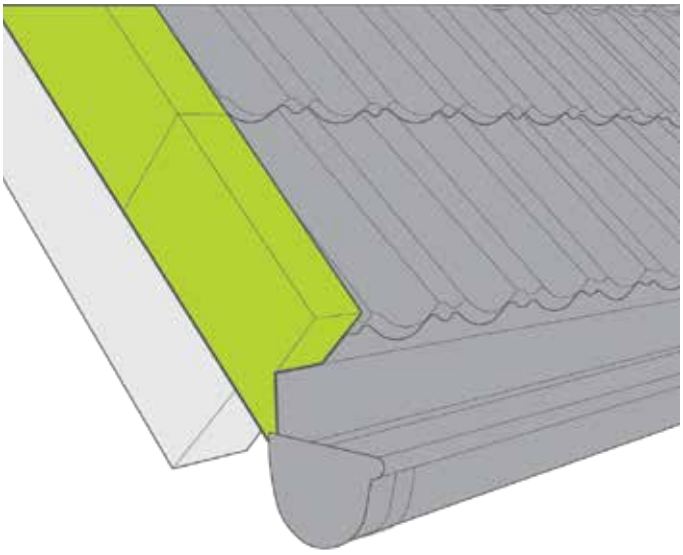


fig.33 INSTALLING FASCIA BOARDS TYPE 2 WITHOUT BENDING

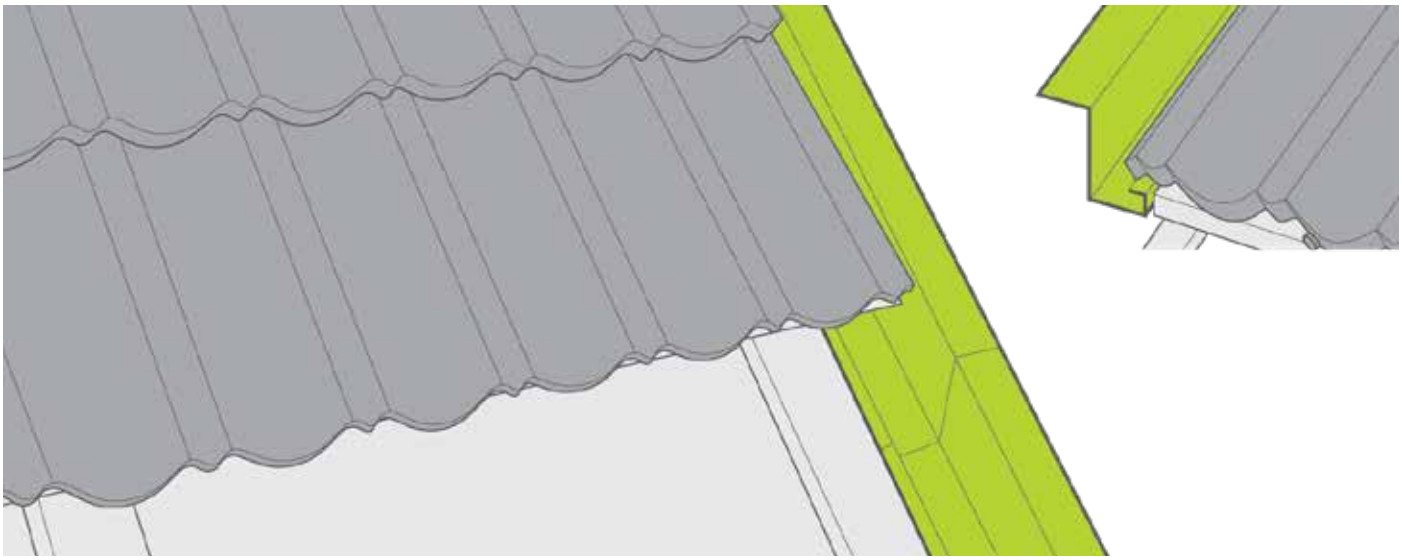


fig.34 INSTALLING SPECIAL FASCIA BOARDS WITHOUT BENDING

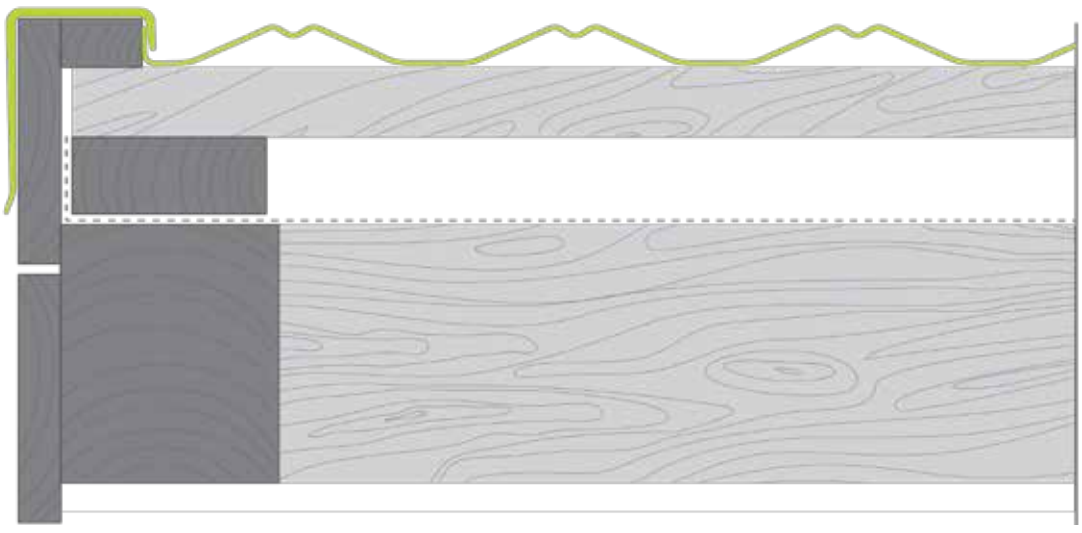


fig.35 INSTALLING TILES AT FASCIA BOARDS – SECTION

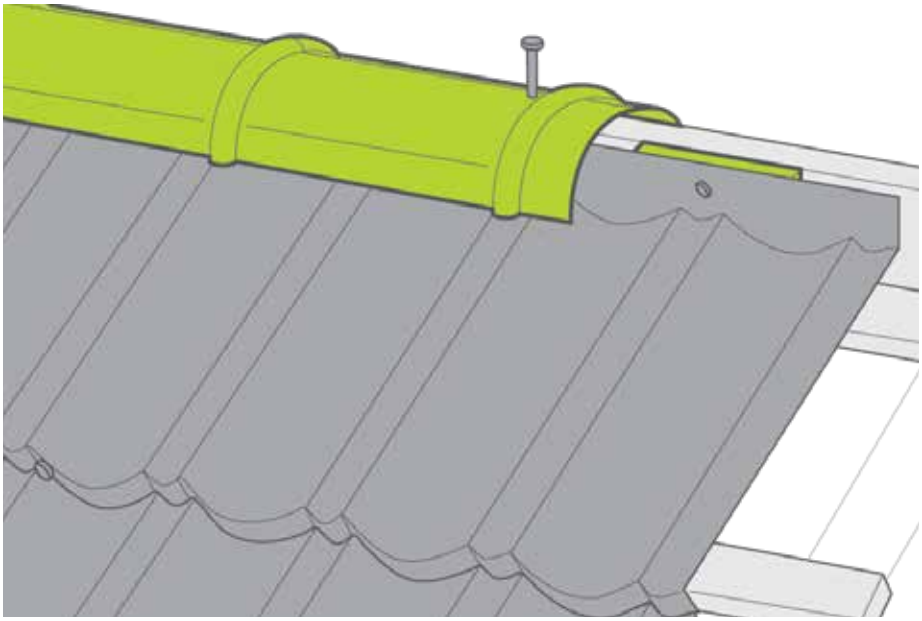


fig.36 HORIZONTAL RIDGE INSTALLATION

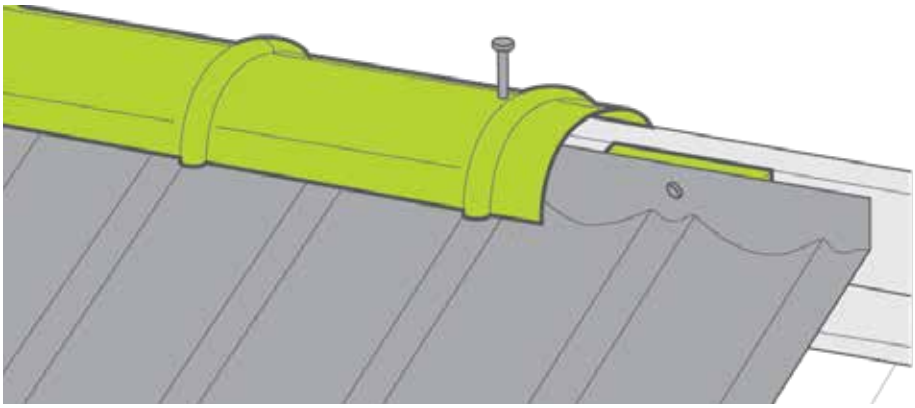


fig.37 HORIZONTAL RIDGE INSTALLATION. VENTILATION IMPROVEMENT ALTERNATIVE

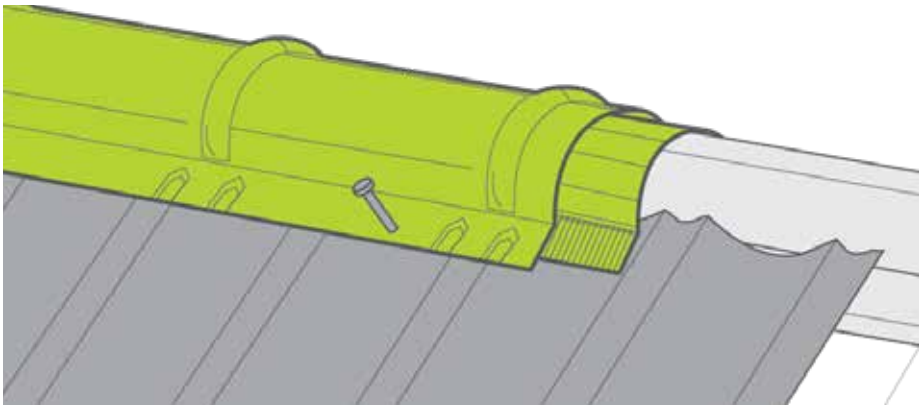


fig.38 BEVELED RIDGE TYPE 2 FIXING AND VENTILATION STRIP. WITHOUT BENDING VERSION

The last row is fixed in the horizontal ridge area. It will require the use of a bender and guillotine (or hand shears) because the space will be smaller than the module's 370 mm width. The distance from the last tile to the ride batten is measured and marked. Bend to the desired angle, using a bender and cut 40-50 mm above the bending line. In the upper area, they shall be fastened to the ridge batten using nails (fig. 35-36). It is very important for the tile to be bent and then adjusted, avoiding deformation.

>INSTALLING ACCESSORIES

STEP 8

1. Fixing eaves flashing
– see fig. 5

2. Fixing wall flashing
– see fig. 29-34

3. Fixing barrel trim
– see fig. 36-38

4. Fixing box barges
– see fig. 32-35

5. Installing roof windows
Installation of roof windows shall be performed according to the manufacturers' instructions, with the observation that in case of the Novatik roofs the fastening supports have to be installed at the level of the vertical battens.
The tiles mounted on the sides shall be bent downwards covering the sealing rubber strips. Fixing of tiles in the lower or upward area of the window. This situation can be avoided using tile offcuts.

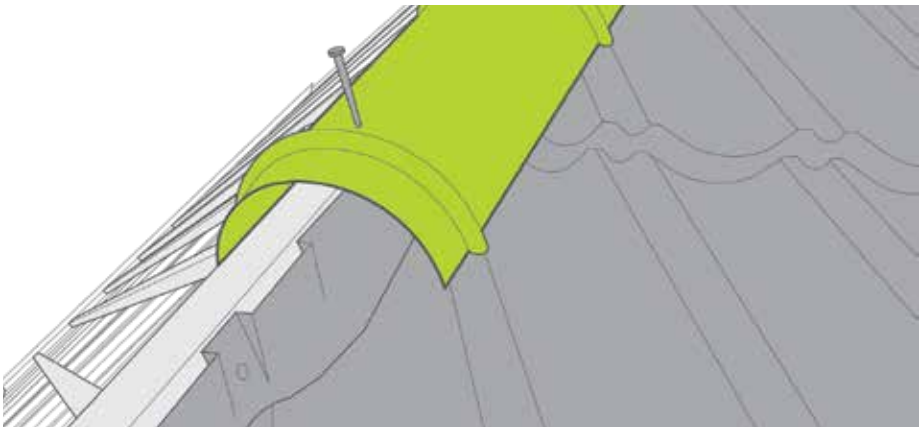


fig.39 BEVELED RIDGE FIXING

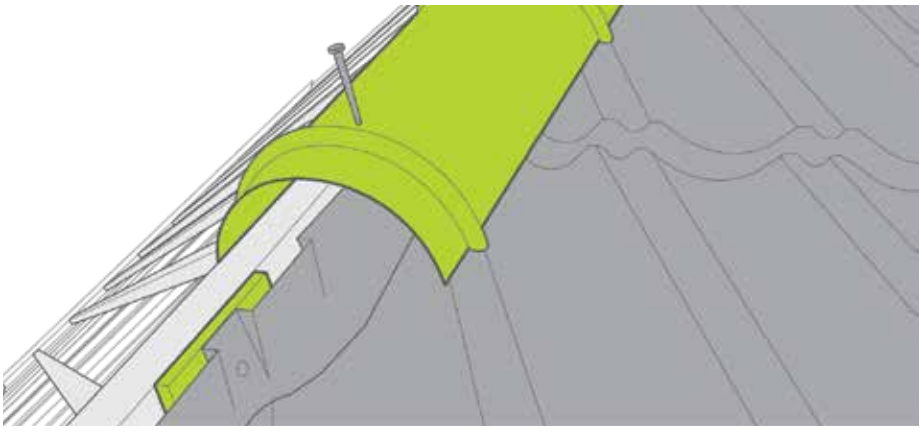


fig.40 BEVELED RIDGE FLEXING VENTILATION IMPROVEMENT ALTERNATIVE

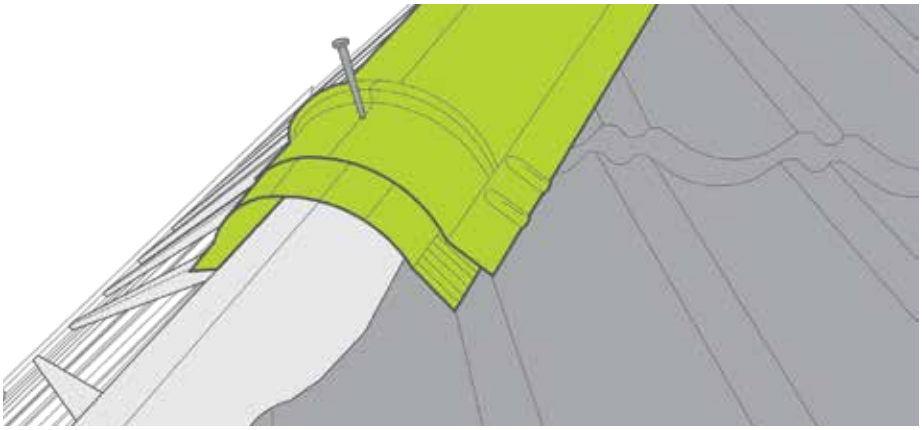


fig.41 BEVELED RIDGE TYPE FLEXING AND RIDGE VENTILATION ROLL WITHOUT BENDING VERSION

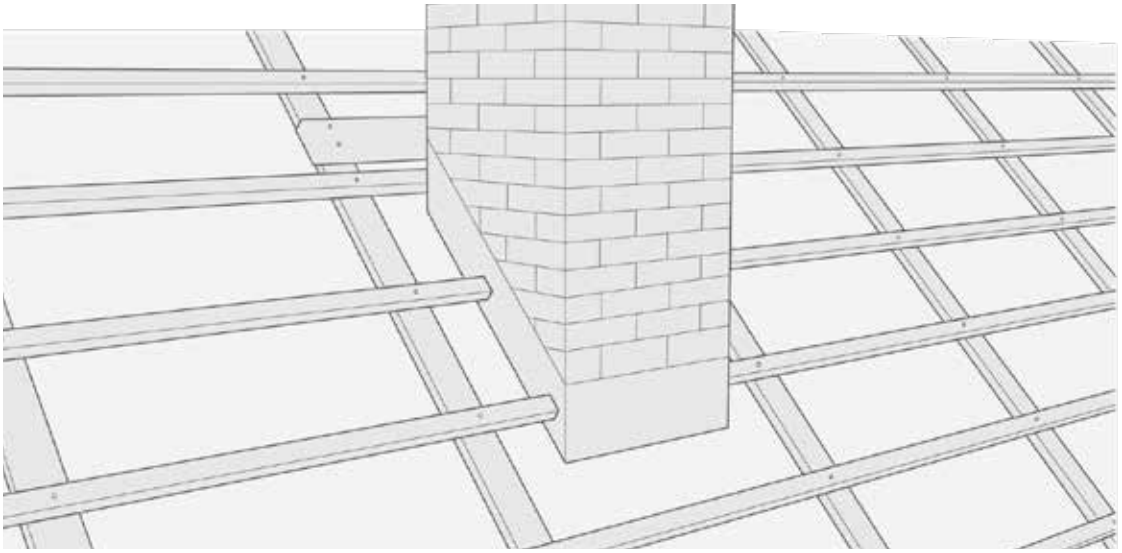


fig.42 CHIMNEY SEALING- STEP 1

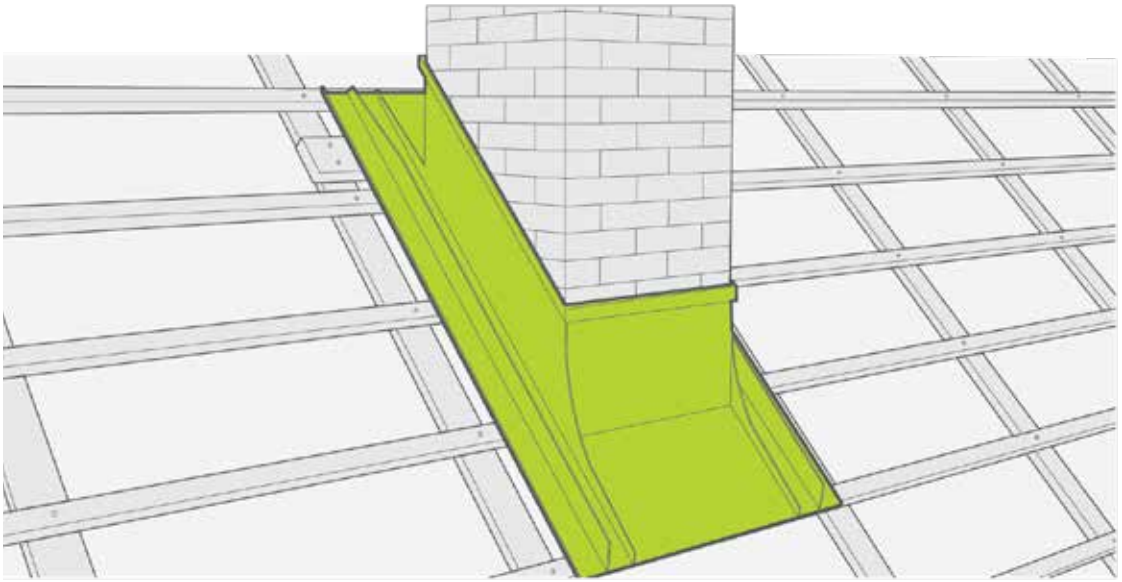


fig.43 CHIMNEY SEALING- STEP 2

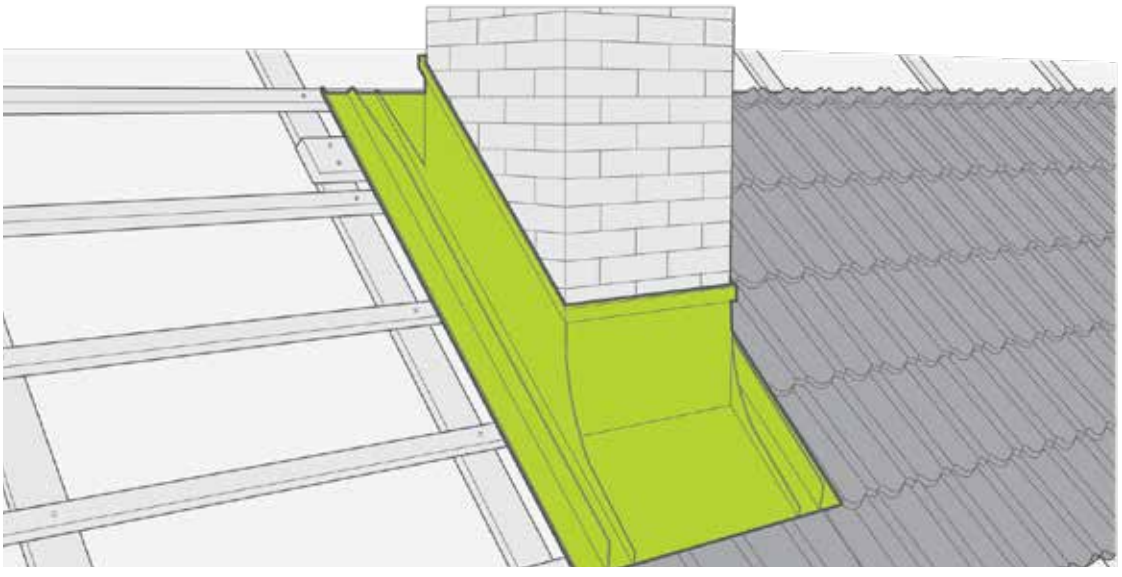
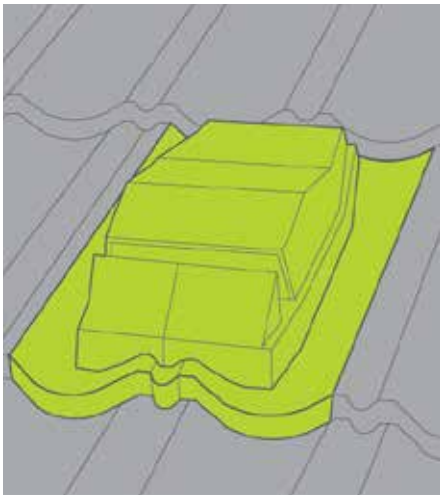


fig.44 CHIMNEY SEALING- STEP 3

>INSTALLING VENTILATION SYSTEMS

Novatik ventilations are easy to install by using a few simple fitting instructions. A very small adjustment is required, because the ventilation base plates already correspond to the sections on the Novatik panels. In snowy regions, where snow quantities are high, ventilation should always be protected against break-up or detachment

STEP 9



INSTALLING VENTILATION

>VENT/ SANITARY VENT

In case of natural ventilation (fig. 45) for optimum efficiency, it is important that the roof vents to be placed as close as possible to the ridge (maximum 1 meter by ridge). For mechanical ventilation (fig. 46), the vents location is less important. However, it is recommended for them to be located relatively close to the ridge. In those regions where there are large amounts of snow, the ventilation must be installed up to 1 meter away from the ridge and a snow stopper system installed above ventilation.

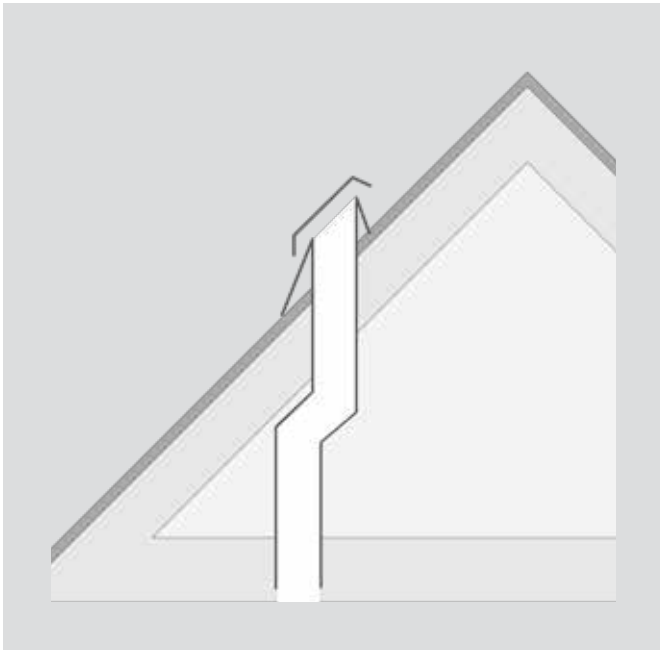


fig.45 NATURAL VENTILATION

Optimum ventilation placement has to be as close as possible to the ridge (max. 1 meter from the ridge)

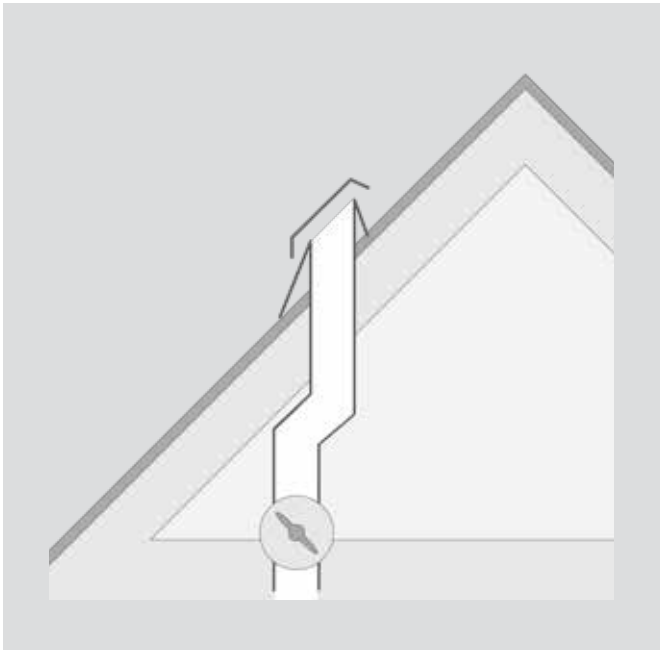
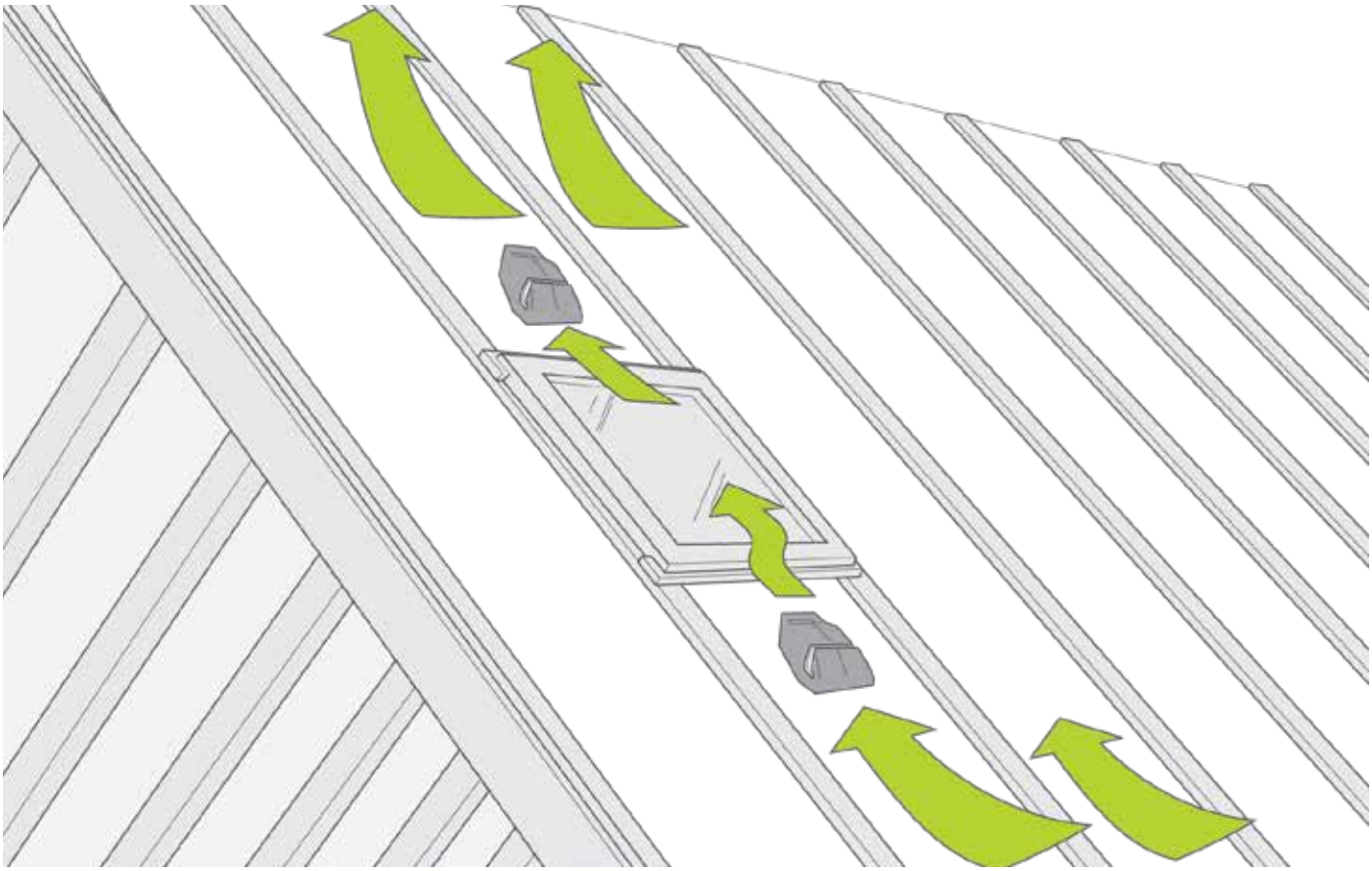


fig.46 MECHANICAL VENTILATION

For mechanical ventilation, the placement of ventilation/airway vents is not as strict, but it will be done as close as possible to the ridge.

>VENT

To remove the condensation and humidity from the space under the metal cover, it is important that ventilation to be continuous throughout the roof area, by ventilating each section. The most efficient way of ventilating is to provide a fresh airway at the eave, and an outlet near the ridge, through ventilation spaces or through field ventilation. Novatik ventilations are installed between two steel panels. After being sealed using a butylic strip or mastic then it's overlayed with the Novatik roof panels onto the base of the ventilation on both sides and then fastened with screws or nails.



>INSTALLING SNOW STOPPERS

STEP 10

Novatik snow stoppers are used to prevent the danger caused by the fall of snow and ice from the roof. They can also protect various parts of the roof structure. Snow stopper systems must be placed as close to the eaves as possible, so that the weight can be completly unloaded into the walls of the stoppers where the roof support structure is.

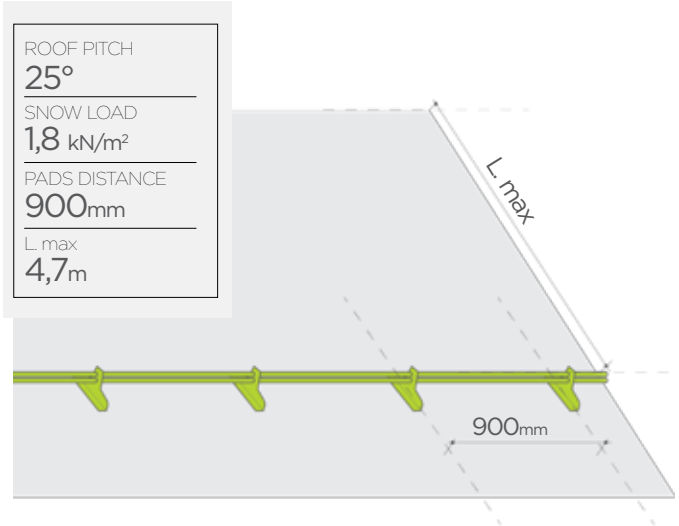
Snow stoppers must withstand a minimum load of 5 kN/ m in the direction of the the drifting snow. Novatik snow stoppers provided in the instructions meet these requirements, this being proved by product certificate C262/03 granted by the VTT Technical Research Center in Finland. Snow stoppers system meets the requirements specified in the RT 85-10708 (Building Information Foundation RTS) file. To ensure that the snow protection systems and their fastening on the roof structure comply with the requirements referred to above, the sizing and installation of the system must be based on the following installation instructions.

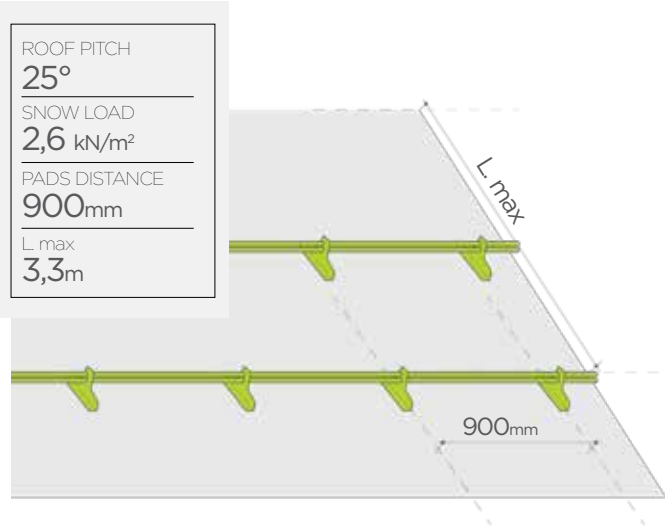
>SIZING

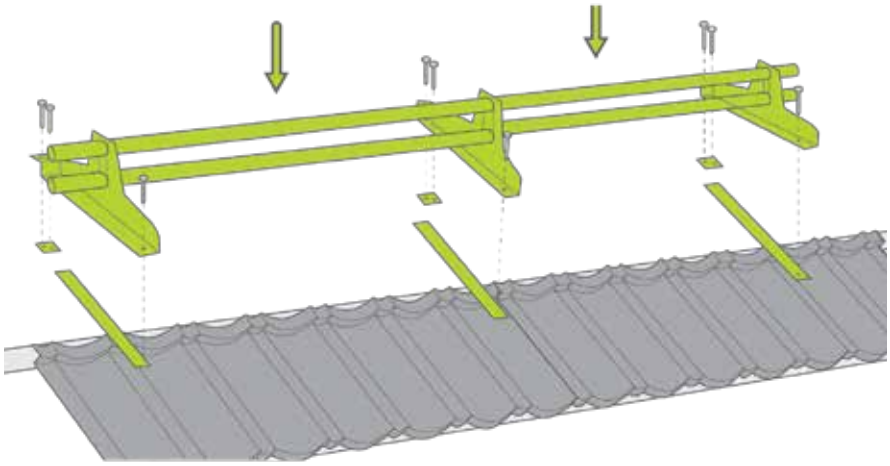
A general rule for required sizing of the snow stoppers system is that a roof surface of less than 6 meter length requires a row of snow stoppers near the gutter, and the roof surfaces with a length of more than 6 meters requires a row of snow stoppers close to the gutter and another at half of the length of the roof surface (maximum 12 meters).

If snow stoppers are installed only above the entrance of the builduings or only on one side of the roof, it must be paid extra attention to the sizing and fixing. For example, if a 3 meter long snow stopper is installed above an entrance, a minimum of four mounting pads should be installed so that the ends of the pipes or the “sigma” profiles do not exceed the mounting pads by more than 100 mm.

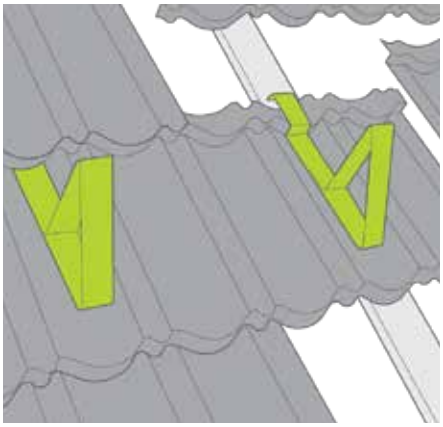
Recommendation for the example above is to install more than one row of snow stoppers on roofs with less than 6 meters in length. The buildings information file RT 85-10708 (Building Information Foundation RTS) includes a table showing the maximum allowable lengths of the roof panel that remains above the installed snow protection elements. This section describes the maximum nominal lengths of the roof areas remaining above the installed snow protection elements.



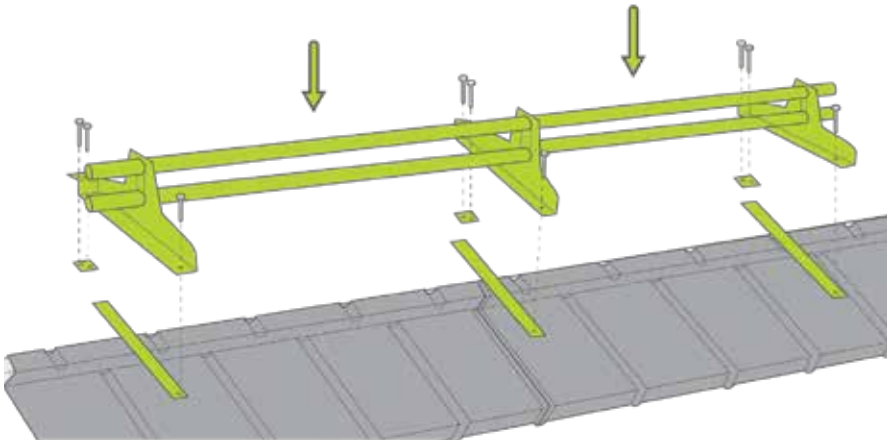




INSTALLING SNOW STOPPERS NOVATIK METAL CLASSIC



INSTALLING SNOW GUARDS



INSTALLING SNOW STOPPERS NOVATIK METAL SLATE

Table showing the maximum permissible lengths of roof surfaces that remain above the installed snow stoppers.

MAXIMUM LENGTH OF THE ROOF AREA (M) ABOVE THE SNOW STOPPERS

SNOW LOAD kN/m²	DISTANCE BETWEEN SNOW STOPPERS PADS mm	ROOF PITCH α (°)				
		α ≤ 15°	15° < α ≤ 22°	22° < α ≤ 27°	27° < α ≤ 37°	37° < α ≤ 45°
1,8 kN/m²	600mm	18,0m	9,5m	7,0m	6,2m	7,5m
	900mm	12,0m	6,3m	4,7m	4,1m	5,0m
	1200mm	9,0m	4,8m	3,5m	3,1m	3,7m
2,6 kN/m²	600mm	12,5m	6,6m	4,8m	4,3m	5,2m
	900mm	8,3m	4,4m	3,3m	2,8m	3,5m
	1200mm	6,2m	3,3m	2,4m	2,1m	2,6m

Snow stoppers must withstand a minimum load of 5 kN/m in the direction of the drifting snow. The nominal values in the table follows these requirements.

>FINISHING

Check that all tiles and accessories were correctly installed. If minor damages appear during instalation, they can be easily fixed using the touch-up spray.

STEP 11

>HANDOVER OF THE WORK AND ACCEPTANCE DOCUMENTATION

STEP 12

NOVATIK® HELPS YOU STAND OUT.

This guide was created to help you install Novatik tiles. The guide offers step-by-step details for correct tile installation. The guidelines in this manual should be regarded as recommendations only, the liability for the installation is held by individual installers. This guide includes almost all possible on-site situations. However, if you need additional support, our contact data is available on the back cover.

NOVATIK SRL is the developer and manufacturer of Novatik METAL roofing systems (interlocking steel roof systems, Colofer® cover), Novatik NATURA (interlocking steel roof systems, stone chip coated panels), Novatik CLICK (standing seam roofs) and rainwater systems Novatik RONDA and QUADRA. Novatik SRL is also the exclusive representative in Romania of DELTA roof protection membranes (anti-condensation membrane, vapour barriers)

Our mission is to provide innovative, efficient, long lasting and aesthetically pleasing roofing products, together with the highest customer satisfaction. We aim to work closely with our customers, resolve problems and build trust and total confidence in our company and our products.

>NOTES

NOTES

Novatik®

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