# ISOTEC®

The under-tile thermo insulating system

# INSTRUCTIONS FOR CORRECT INSTALLATION


Brianza Plastica

1962-2012 50 Anni

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http://isotec.brianzaplastica.it

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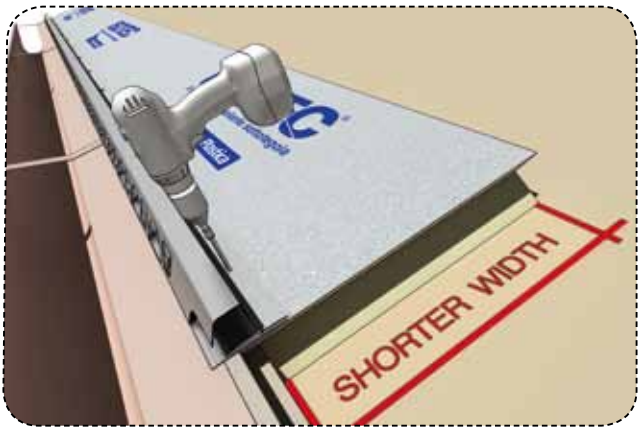
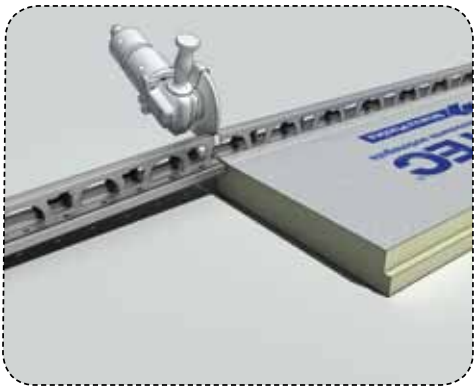
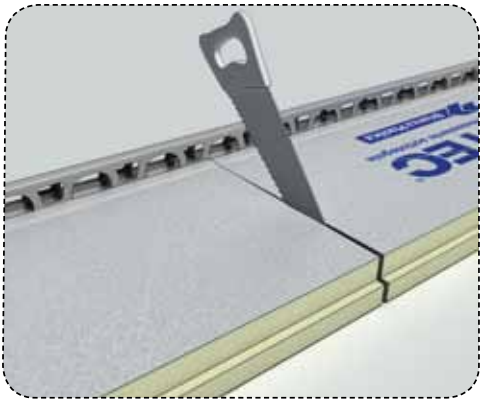
Fix a wooden safety base joist (same thickness as panel) along the entire roof perimeter. To allow the first row of tiles to overlap the gutter, place the first Isotec panel after trimming it along the longitudinal side (length 3,900 mm) or, as an alternative, use the specific Isotec panel with a shorter width. The gutter will be fixed to the first panel line. Interpose a butyl aluminium tape as insulation between the metal profile and the gutter (to prevent electrochemical corrosion). Besides the aforementioned method, the first row can be studied to suit specific roof features, ensuring, in any case, waterproofing of the roof.



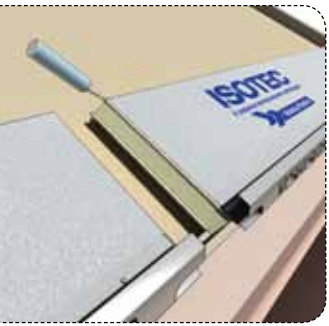


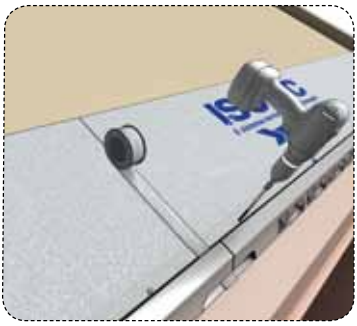


## CUTTING THE PANEL

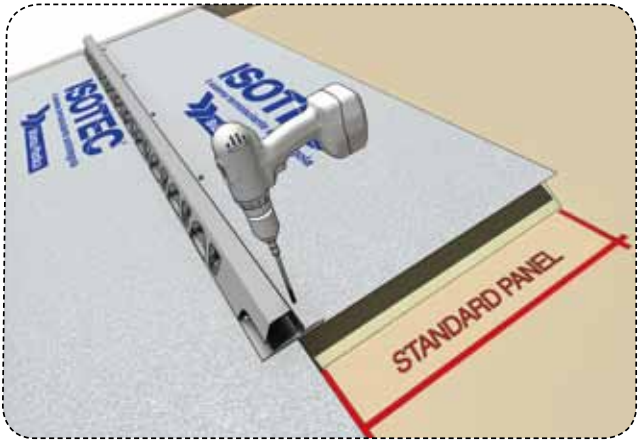
The panel can be cut with a single process by using a circular saw or in two times with a saw with stiff blade for foam parts.


Seal the lateral dovetails of the panels with single-component silicone before their joint. After the panel has been installed and fixed, waterproof the joint with the butyl aluminum tape. Type of fastening are according to the kind of roof structure. Distance is about 1 meter.

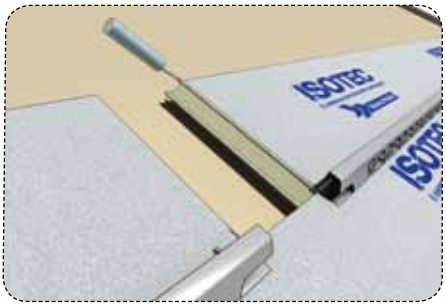


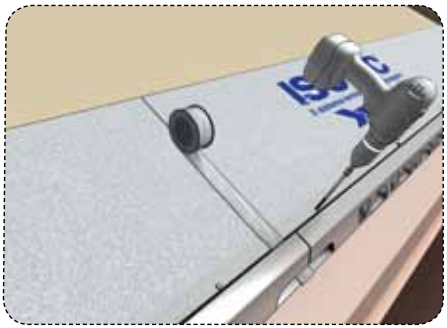




Continue with the second and following rows with standard panels, cutting their length in order to stagger with the lateral joints of the first row.
**Pull the panel toward the underlying one to perfectly join the batten and then fix it.** The cut parts of panels can be used for the next row.



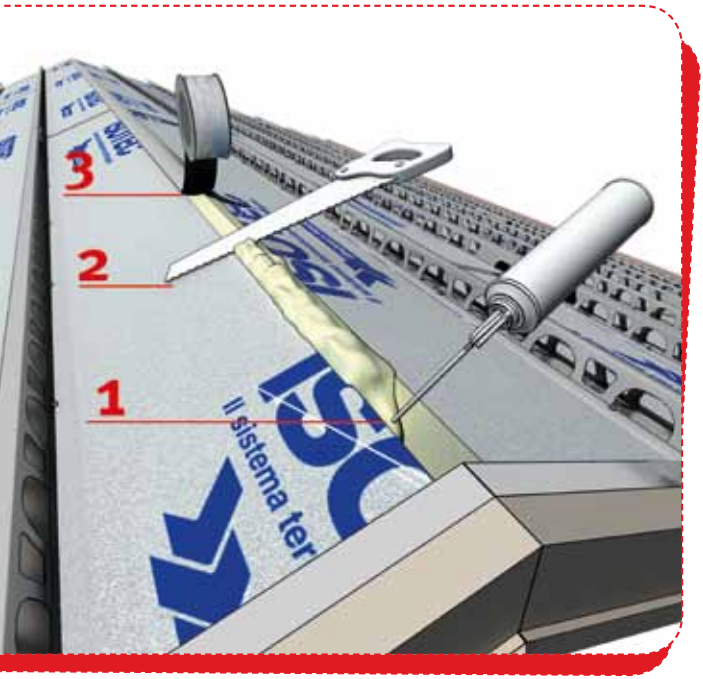
Follow the same sequence (phase 2 and phase 3) for the next rows until you reach the ridge of the roof.



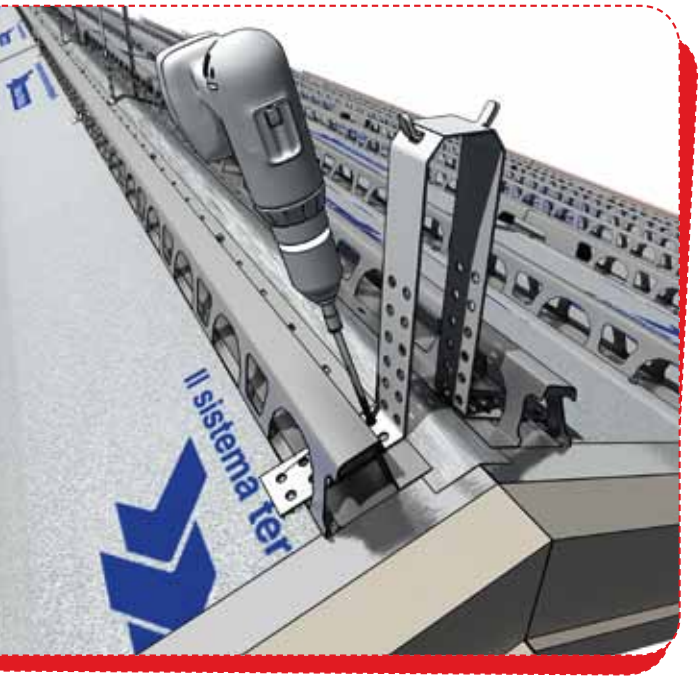

The wooden lateral perimeter must have the same thickness of the panels.
Fill the space between the Isotec panels and the wood planks with PU foam and then waterproof with butyl aluminum tape.
The lateral flashing will be fixed on to the wooden perimeter.


Applied to the following rows, from the gutter to the roof ridge, this procedure ensures better sealing and waterproofing efficacy, as well as reduces the percentage of discarded material, which is averagely about 3%.

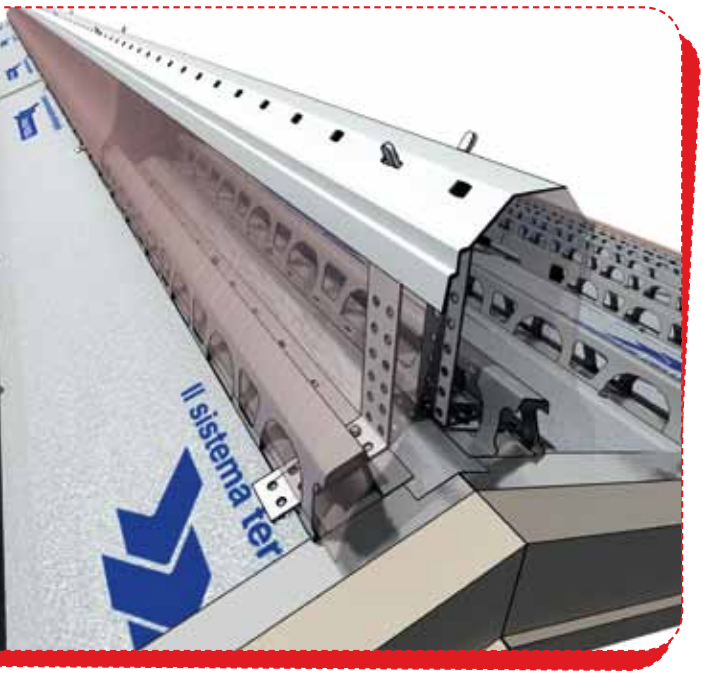



After having reached the ridge, follow the instructions below:

1. seal with PU foam the space between the panel at the ridge, carefully filling every hole
2. trim the foam in excess
3. seal by applying butyl aluminum tape

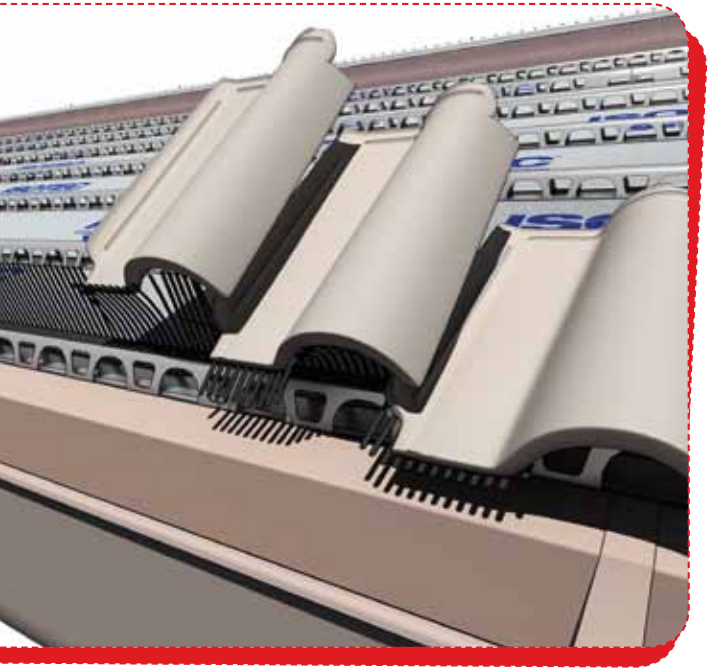



Place the metal profile and fix it to the bottom frame at an appropriate distance to support the last row of tiles. Afterwards, fix the under-ridge brackets on the flat area of the metal profile (one about every 65 cm).




Install the zinc-led under-ridge plate by inserting it into the flaps located at the top of the brackets.
Then fold and fix it.


The space between all protruding parts (such as chimneys, exhaust flues, dormer windows) and the Isotec panels must be filled with PU foam and then coated with butyl aluminum tape.
It is suggested to place an upturned “V” made of pieces of wood above the roof area of the protruding parts.



Use the ventilated bird list for eaves along the gutter edge. The height of the bird list ensures the proper inclination of the first row of tiles along the cutter edge (check during tiles laying that combs of the bird list are bent outward). Fixing can be done with other fixing devices, referring to instructions of roof manufacturers or standard rules (i.e. UNI 9460) or local tile laying rules.

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## WARNING

Characteristics and technical information contained in this catalogue are based on current information and experiences and are, to our knowledge, correct and accurate. They may undergo changes without forewarning. Brianza Plastica declines all responsibility for incorrect use of the material, since the conditions of use are not under our direct control.

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