TOP INSULATION WITH ANY ROOF COVERING

The extreme versatility of the Isotec panel allows it to be used with any type of roof covering; choose the roof you prefer: slabs or tiles, Isotec goes well with both

Brianza Plastica

www.brianzaplastica.it

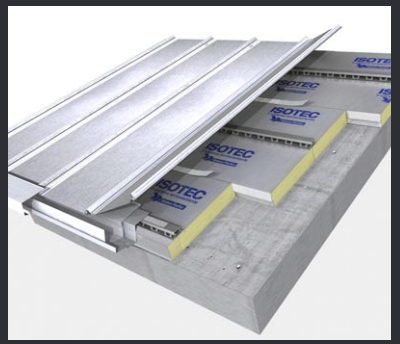
THE ISOTEC SYSTEM FOR ANY TYPE OF ROOF

ISOTEC is a thermal insulation system made of high-performance polyurethane, designed to create energy efficient buildings, guaranteeing excellent insulation and ventilation of the entire building envelope.
The range includes solutions for roof insulation and ventilated facades and is ideal for repairing and refurbishing old roofs or creating new roofs.

SNAP-ON METALLIC SLABS

The roof covering can be made of various types of metal, such as aluminium, copper, zinc or others. The slab can be profiled on site or supplied already profiled. It does not come with pre-drilled holes as it is anchored by means of special clamps or brackets fixed to the Isotec Parete batten. Possibility to create roofs with variable curves.

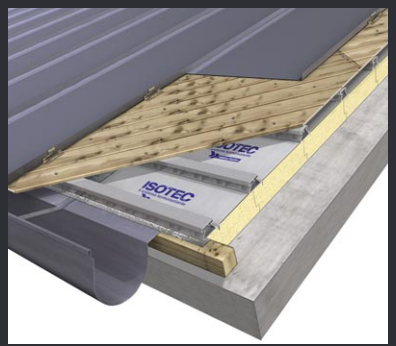
Slope: **starting from 1%**
Product: **ISOTEC PARETE**

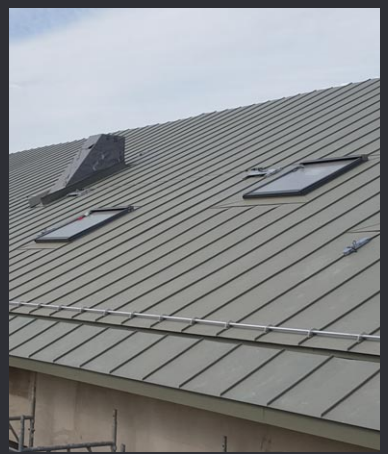


STANDING SEAM SHEET METAL

Sheet metal of various types (steel, aluminium, copper, zinc), available in a variety of colours that can be fixed with special brackets to the wooden planks, which in turn are fixed to the Isotec Parete batten by means of special screws.

Slope: **starting from 5%**
Product: **ISOTEC PARETE**





CORRUGATED OR CRIMPED METALLIC SLABS

Sheet metal in steel, aluminium, copper, zinc or other metals, corrugated or crimped.
Available in a variety of colours, they are fixed with special screws directly to the batten of the Isotec panel, at the top part of the wave or corrugation.

Slope: **starting from 7%**
Product: **ISOTEC XL (extended pitch), ISOTEC PARETE**

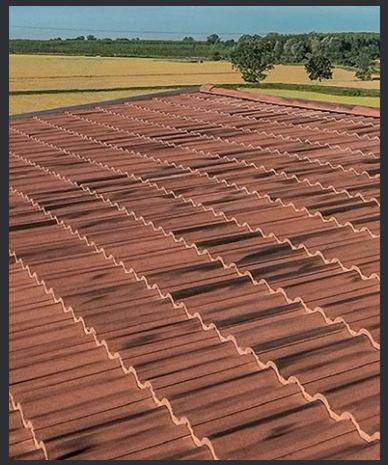
The ISOTEC panel is available in various thicknesses, from 60 to 160 mm, and comes with an integrated stiffener.
It has a length of 3900 mm, and varying widths for adapting to any type of roof covering.

Isotec Parete offers a new system for ventilated facades that uses a single technical solution to create a continuous and homogeneous outer jacket and support structure for the cladding.
Length of 2500 mm, width from 250 to 730 mm, thicknesses of 60, 80, 100, 120 and 160 mm.

TILES FOR LOW PITCHES

These types of tiles have technical characteristics which make them suitable only for slopes greater than 10%, as indicated by the manufacturer.
The tiles are placed directly on the stiffener of the Isotec panel.

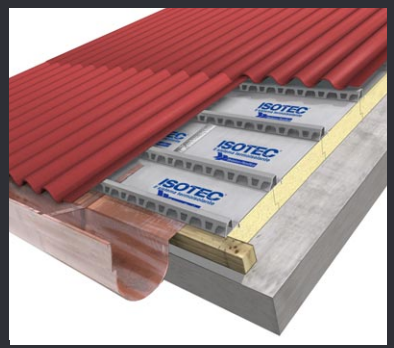
Slope: **starting from 10%**
Product: **ISOTEC, ISOTEC XL**



FIBRE-CEMENT OR FIBRE-BITUMEN SHEETS

Roof sheets in various colours, they are fixed with special screws directly to the stiffener of the Isotec panel at the upper part of the wave.

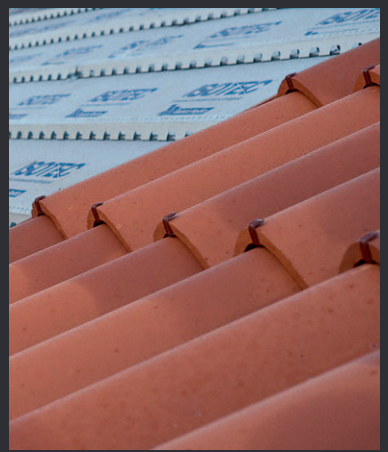
Slope: **starting from 15%**
Product: **ISOTEC or ISOTEC XL (extended pitch), ISOTEC PARETE**



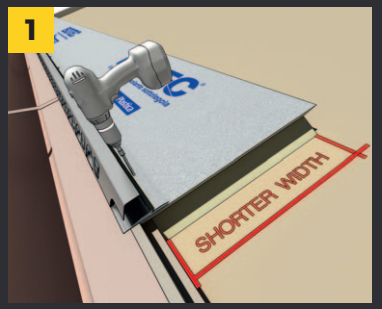
TRADITIONAL TILES

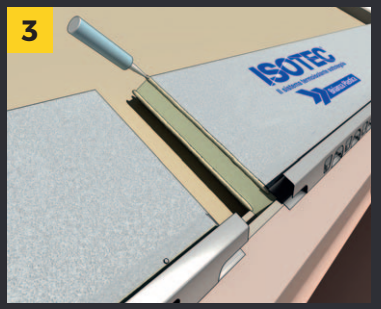
Isotec can accommodate any type of traditional tile or pantile, whether in terracotta, cement, ceramic, etc. The tiles are placed directly on the stiffener of the Isotec panel.

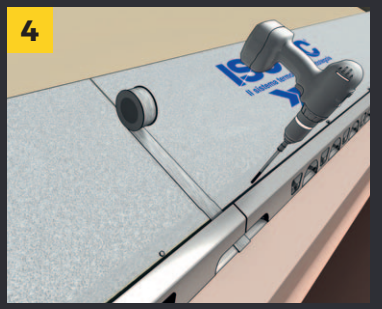
Slope: **starting from 30%**
Product: **ISOTEC, ISOTEC XL**

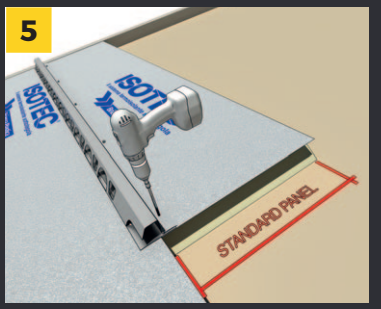


HOW TO INSTALL ISOTEC ON THE ROOF, PANEL AFTER PANEL, FROM THE EDGE OF THE GUTTER TO THE RIDGE









1 After fixing a wooden batten (same thickness as the panel) along the entire perimeter of the room, fix the first Isotec panel.
Use a panel with a shorter width or trim it lengthwise to allow the first row of tiles to reach the gutter correctly.

2 The panel can be cut in one stage, using an angle grinder with flexible disc, or in two stages, first cutting the foamed part with a rigid saw blade.

3 Seal the side dovetail-shaped joints of the panels by applying single-component silicone.

4 After the panel has been installed and fixed, waterproof the joint and the head of the fasteners with the butyl aluminium tape.
The fasteners must be suitable to the type of roof structure, and be spaced about one meter apart.

5 Once the first row has been completed, proceed with the next ones using full-pitch panels. Cut the first panel in half and use one piece to lay the panels in a staggered pattern (the vertical joints of the two rows must never match).
The second piece can be used for the next row. Slide the panel until it perfectly joins the perimeter batten, and then fix it to the underlying panel.

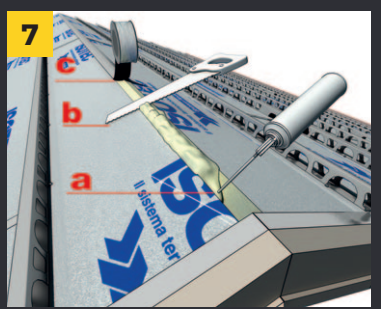
6 At the end of the row, close the side with a wooden batten, which should have the same thickness as the panel. Fill the space between the Isotec panel and the batten with polyurethane foam and then waterproof with the butyl aluminium tape.
Fix the copper flashing to the end of the batten.

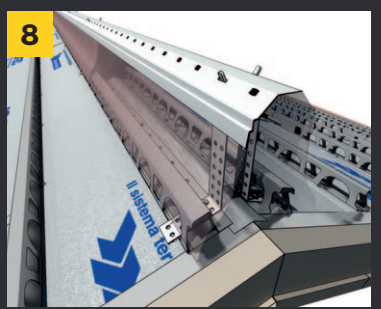
7 Following the same procedure, complete the slope, row by row, then move to the others until all the panels have reached the ridge of the roof.
Seal the space between the panels with polyurethane foam (**a**), carefully filling every hole.
When dry, trim the foam in excess (**b**), then waterproof with the butyl aluminium tape (**c**).

8 Position the profiled batten close to the ridge, and fix it to the bottom frame with the fasteners, at an appropriate distance to support the last row of tiles.
Fix the under-ridge brackets on the flat part of the roof batten (about one every 65 cm), then install the under-ridge plate by inserting it into the appropriate flaps located at the top of the brackets. Fold and fix it.

9 Join all the parts protruding from the roof, such as chimneys, exhaust flues, dormer windows, etc. to the Isotec panel using polyurethane foam and seal the connection with the butyl aluminium tape.
Place an upside-down "V" shape upstream of the protruding part to divert the flow of water.

10 Position the special ventilated gutter batten along the edge of the gutter. The strip allows obtaining a continuous slope when laying the first row of tiles on the gutter edge.
When correctly installed, the ventilated strip must have the combs facing outwards.





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