

SNOWHITE SWM

Thermal insulation for tiled roofs, metal roofs and hollow external walls

Catalog number :SWM

Revision : 10/07

<p>Product's Description</p>	<p>Snowhite – SWM is an insulation system consisting of a double layer sheet combining a reflective radiation barrier with an insulation layer of pure and flexible polyester fibers. The radiation barrier is made of a reinforced aluminum foil with a low emissivity level, approximately 3%. The reflective side (the shiny one) of the barrier faces outside.</p>			
<p>Product's Purpose</p>	<p>Snowhite – SWM is used for thermal insulation of tiled roofs, low-weight roofs, hollow external walls in residential, industrial, agriculture buildings and for insulating air condition ducts.</p>			
<p>Technical Specification</p>	<p><u>Property</u></p> <p>Polyester weight (gr./m²):</p> <p>Thickness (mm):</p> <p>R – Thermal resistance - according to ASHRAE (m²k/w)</p> <p>Heat conductivity – w/mk</p> <p>NRC (as per ASTM-C177):</p> <p>Fire Class according to I.S. 755:</p>	<p><u>SWM300</u></p> <p>300</p> <p>45</p> <p>2.01</p> <p>0.048</p> <p>0.35</p> <p>B2.2.2</p>	<p><u>SWM500</u></p> <p>500</p> <p>75</p> <p>2.41</p> <p>0.056</p> <p>0.45</p> <p>B2.2.2</p>	<p><u>SWM800</u></p> <p>800</p> <p>100</p> <p>3.08</p> <p>0.0497</p> <p>0.70</p> <p>B2.2.2</p>
<p>Using Manner</p>	<p>General: The Snowhite – SWM sheets are to be stretched so that the aluminum foil faces <u>downwards</u>. Snowhite – SWM insulation cutting method: by means of simple (long) cloth scissors. The insulation is attached to the beams by means of a pins-gun. The height of the pins' legs: 10-12 mm. To cover overlaps (usually unnecessary) use dedicated aluminum masking tape. Apply masking tape in the same manner at slopes' junctions (corners) for attachments that are not to beams. The Snowhite – SWM is suitable for insulating tile roofs subject to I.S. 921.</p> <p>Installation under tiles on an existing roof: Stretching the Snowhite – SWM perpendicularly to the roof's slanted beams.</p> <ol style="list-style-type: none"> 1. Stretch the Snowhite – SWM horizontally, perpendicular to the beams and attach by means of a pins-gun to beams' bottom. 2. It is recommended to create 5 cm. overlaps between every two sheets, with the lower insulation overlapping the higher one from beneath. 			

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<p>Using Manner</p>	<p>Installation under the tiles of an attic's roof:</p> <p>In a tiles roof to be fitted with a gypsum ceiling under the tiles. Stretching the Snowhite – SWM along the span between the beams (the slanted ones).</p> <ol style="list-style-type: none"> 1. Verify that the insulator's width fits the distance between two adjacent beams' centers + 5-10 cm. spare. 2. Measure the necessary length (the beams' length from the roof's top to bottom) and cut the insulator to the desired size. 3. Attach the insulator's edges to the beams' sides leaving a maximum air gap between the tiles' wooden supports and the insulator. Attachment is attained by means of a pins-gun at distances of 30 to 40 cm. in between. <p>Installing Snowhite – SWM at a new roof, before laying down tiles:</p> <p>Stretching the Snowhite – SWM perpendicularly to the roof beams (the slanted ones) and attaching the sheet's edges by means of a pins-gun over the beams creating overlaps.</p> <ol style="list-style-type: none"> 1. Stretch the Snowhite – SWM horizontally, perpendicular to the beams and attach by means of a pins-gun before laying down the tiles' wooden supports. 2. Create overlaps along the meeting lines of two adjacent sheets so that the higher sheet overlaps the lower one from above. <p>The Snowhite – SWM may be extended so that it is stretched between the beams but it is recommended to stretch it creating a 4-8 cm. depression between the beams, to increase the ventilation clearance underneath the tiles. The depressions need be measured to verify their uniformity before attaching with the pins.</p> <p>Fitting Snowhite – SWM on a concrete roof:</p> <p>The Snowhite – SWM may be extended over a concrete roof directly. To improve the insulating performance it is recommendable to cut 10x10 cm. Snowhite – SWM squares, gluing them onto the ceiling at distances of 60 cm. in each direction with contact glue and laying down Snowhite – SWM freely on them.</p>
<p>Packaging</p>	<p>Snowhite – SWM is marketed in rolls in the following widths:</p> <p>Width: 40, 60, 80, 120</p>
<p>Safety Instructions</p>	<p>Avoid any contact between Snowhite – SWM (or any other reflexive insulator) and exposed electric cables, electric boxes or any non-insulated electric element (aluminum sheet is an electrical conductor!).</p> <p>Verify the stability and safety of the roof's beams before taking any action.</p> <p>In a gypsum ceiling it is recommended to lay down a plate resting on 2 adjacent beams and standing on it.</p> <p>Snowhite – SWM is not to be attached to a chimney. Verify a distance of at least 12 cm.</p>