

## SNOWHITE SWMX

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

Catalog number :SWMX

Revision : 10/07

<b>Product Description</b>	<b>Snowwhite – SWMX</b> is an insulation system consisting of a multi-layer sheet combining a reflexive 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.			
<b>Product's Purpose</b>	<b>Snowwhite – SWMX</b> is used for thermal insulation of tiled roofs, low-weight roofs, hollow external walls in residence, industrial, agriculture buildings and for insulating air-condition ducts.			
<b>Technical Specification</b>	<p><b>Property</b></p> <p>Polyester weight (gr./m<sup>2</sup>):</p> <p>Thickness (mm):</p> <p>R – Thermal resistance - according to ASHRAE (m<sup>2</sup>k/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><b>SWMX300</b></p> <p><b>300</b></p> <p><b>45</b></p> <p><b>3.08</b></p> <p><b>0.048</b></p> <p><b>0.35</b></p> <p><b>B2.2.2</b></p>	<p><b>SWMX500</b></p> <p><b>500</b></p> <p><b>75</b></p> <p><b>3.48</b></p> <p><b>0.056</b></p> <p><b>0.45</b></p> <p><b>B2.2.2</b></p>	<p><b>SWMX800</b></p> <p><b>800</b></p> <p><b>100</b></p> <p><b>4.15</b></p> <p><b>0.0497</b></p> <p><b>0.70</b></p> <p><b>B2.2.2</b></p>
<b>Using Manner</b>	<p><b>General:</b></p> <p><b>Snowwhite – SWMX</b> insulation cutting method: by means of simple (long) cloth scissors.</p> <p>The insulation is attached to the beams by means of a pins-gun. The height of the pins' legs: 10-12 mm.</p> <p>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.</p> <p>The <b>Snowwhite – SWMX</b> is suitable for insulating tile roofs subject to I.S. 921.</p> <p><b>Installation under tiles on an existing roof:</b></p> <p>Stretching the <b>Snowwhite – SWM</b> perpendicularly to the roof's slanted beams.</p> <ol style="list-style-type: none"> <li>1. Stretch the <b>Snowwhite – SWM</b> horizontally, perpendicular to the beams and attach by means of a pins-gun to beams' bottom.</li> <li>2. It is recommended to create 5 cm. overlaps between every two sheets, with the lower insulation overlapping the higher one from beneath.</li> </ol>			

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<p><b>Using Manner</b></p>	<p><b>Installation under the tiles of an attic's roof:</b></p> <p>In a tiled roof to be fitted with a gypsum ceiling under the tiles. Stretching the <b>Snowhite – SWMX</b> along the span between the beams (the slanted ones).</p> <ol style="list-style-type: none"> <li>1. Verify that the insulator's width fits the distance between two adjacent beams' centers + 5-10 cm. spare.</li> <li>2. Measure the necessary length (the beams' length from the roof's top to bottom) and cut the insulator to the desired size.</li> <li>3. Attach the insulator's edges to the beams' sides leaving maximum air clearance 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.</li> </ol> <p><b>Installing Snowhite – SWMX at a new roof, before laying down tiles:</b></p> <p>Stretching the <b>Snowhite – SWMX</b> 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"> <li>1. Stretch the <b>Snowhite – SWM</b> horizontally, perpendicular to the beams and attach by means of a pins-gun before laying down the tiles' wooden longitudinals.</li> <li>2. Create overlaps along the meeting lines of two adjacent sheets so that the higher sheet overlaps the lower one from above.</li> </ol> <p>The <b>Snowhite – SWM</b> 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><b>Fitting Snowhite – SWM on a concrete roof:</b></p> <p>The <b>Snowhite – SWM</b> may be extended over a concrete roof directly. To improve the insulating performance it is recommendable to cut 10x10 cm. <b>Snowhite – SWM</b> squares, gluing them onto the ceiling at distances of 60 cm. in each direction with contact glue and laying down <b>Snowhite – SWM</b> freely on them.</p>
<p><b>Packaging</b></p>	<p><b>Snowhite – SWM</b> is marketed in rolls in the following widths:</p> <p>Width:           40, 60, 80, 120</p>
<p><b>Safety Instructions</b></p>	<p>Avoid any contact between <b>Snowhite – SWM</b> (or any other reflective insulator) and exposed electric cables, electric boxes or any non-insulated electric element (aluminum foil 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><b>Snowhite – SWM</b> is not to be attached to a chimney. Verify a distance of at least 12 cm.</p>