

SNOWHITE FR

Thermal insulation sheet for tiled Roofs, metal Roofs, external walls and other
Cat. No.: SW FR

Rev.: 4/08

Product Description

Snowwhite FR is a novel multiple layer insulation sheet incorporating reflective radiation barriers with an insulation layer made from pure and resilient polyester fibers.

The radiation barriers are made from reinforced aluminum foil of low emissivity in the range of some 3%, with the reflective (shiny) side facing out.

Technical Specifications

<u>Property</u>	<u>Snowwhite FR</u>
Polyester weight (gr/m ²)	100
Thickness (mm)	13
Thermal resistance R (based on ASHRAE) (°C x m ² / W)	3.02
Fire hazard classification (based on IS 755)	V.3.3

Method Of Application

Snowwhite FR sheets are cut with standard (long) fabric scissors.

The sheets are secured to the trusses with a stapler using staples 10 to 12 mm high.

A special aluminum adhesive tape is used to secure overlaps where necessary, and also to seal between slopes (corners) and joints other than truss (beam) joints.

Snowwhite FR is suitable for insulation of tiled roofs, metal (corrugated sheet) roofs and other structural elements.

Installation under the tiles of an existing roof:

Snowwhite FR is installed perpendicularly to the trusses (sloping roof beams). To install:

1. Lay out the **Snowwhite FR** sheet flat perpendicularly to the trusses, then secure to the bottom of the trusses with staples.
2. Best allow a 5 cm overlap between each two sheets, with the lower insulation fitted under the higher insulation.

Installation under the roof tiles of a loft:

On a tiled roof to be fitted with a plaster ceiling under the tiles, **Snowwhite FR** is laid out along the clearance between each two trusses. To install:

1. Verify that the insulation sheet width fits within the clearance between the centers of two adjacent trusses plus additional 5 to 10 cm.
2. Measure the length required (truss length from the ridge to the bottom), then cut the sheet down to size.
3. Secure the skirts to the sides of the trusses with a maximum clearance left for air between the wooden tile supports and the insulation. To secure, staple at 30 to 40 cm intervals.

Installation on a new roof, before the tiles are laid down:

On a new rooftop, **Snowwhite FR** is laid perpendicularly to the trusses, with the skirts overlapping and secured to the trusses. To install:

1. Lay out the **Snowwhite FR** sheet flat perpendicularly to the trusses, then overlap and secure the skirts over the trusses with staples, before the tile supports are installed.
2. Along the joint between each two adjacent sheets, make an overlap with the higher insulation on top of the lower insulation.

Snowwhite FR may be stretched out between the trusses, however it should best be slightly loosened to allow a 4 to 8 cm crater between each two trusses for a better air clearance under the tiles. Before stapling, measure and verify uniform clearances.

Installation on a concrete ceiling:

Snowwhite FR may be installed directly on concrete ceilings. For better insulation, EPS (Styrofoam) should best be applied under the **Snowwhite FR** sheet as follows:

1. Cut the EPS into 3 cm thick squares sized 10 x 10 cm, then bond to the ceiling with contact glue at 60 cm intervals.

Now lay out the **Snowwhite FR** sheet freely on top of the EPS.

Packaging

Snowwhite FR is sold in rolls of sheet widths 80 cm and 120 cm.

Safety

Avoid all contact between **Snowwhite FR** (or any other reflective insulation) and bare electrical wires, junction boxes or other non-insulated elements (aluminum foil is electrically conductive!)

Before attempting any installation, verify that the trusses are sound and safe.

On plaster ceilings, best rest a plate on two adjacent trusses and use the plate for a tread.

Do not fit the **Snowwhite FR** sheet next to a chimney. Verify a minimum clearance of 12 cm.