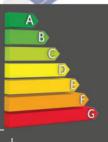


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Complete mastery and proper understanding...





### Advice prior to installing Thin Reflective Insulation (TRI)

It essential that the condition of the base structures be checked before installation. After insulation has been installed, it must be checked to ensure it is in proper condition:

- **♦** No signs of moisture, mould or rotting.
- ✓No inappropriate entry of air (e.g. unused pipe).
- No crushed spots, and insulation completely fills the place where it is installed.



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Although subjacent roof screens are air and water proof, they are no substitute for a tarp, be sure to protect you work site from bad weather.

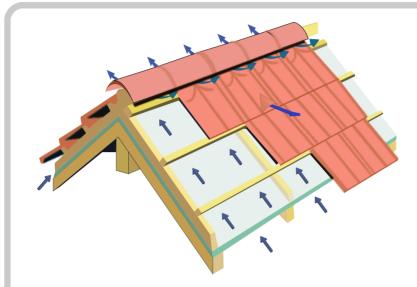
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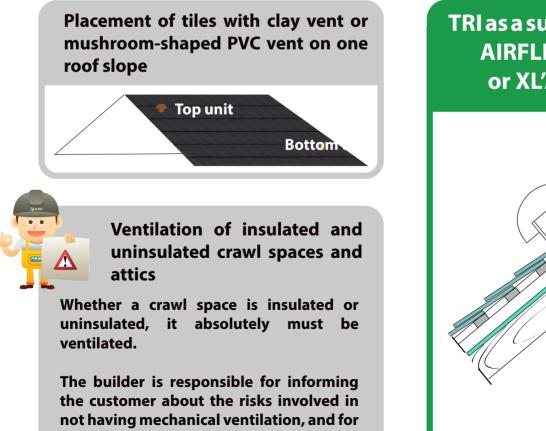
## Ventilation is a key factor for your health and a healthy home



Air extraction: Either through the roof ridge or via vent caps, Or by ventilation tiles

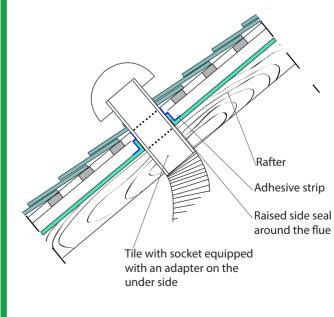
Air entry: Either by ventilation tiles, Or via eave spaces

The air space ventilated between the surface of the insulation, of whatever type, and the under side of the roofing must be at least 40 mm in depth (DTU series 40). In order to obtain this volume, the counter-battens must be 27 mm thick and the battens 14-27 mm thick, depending on the type of roofing.



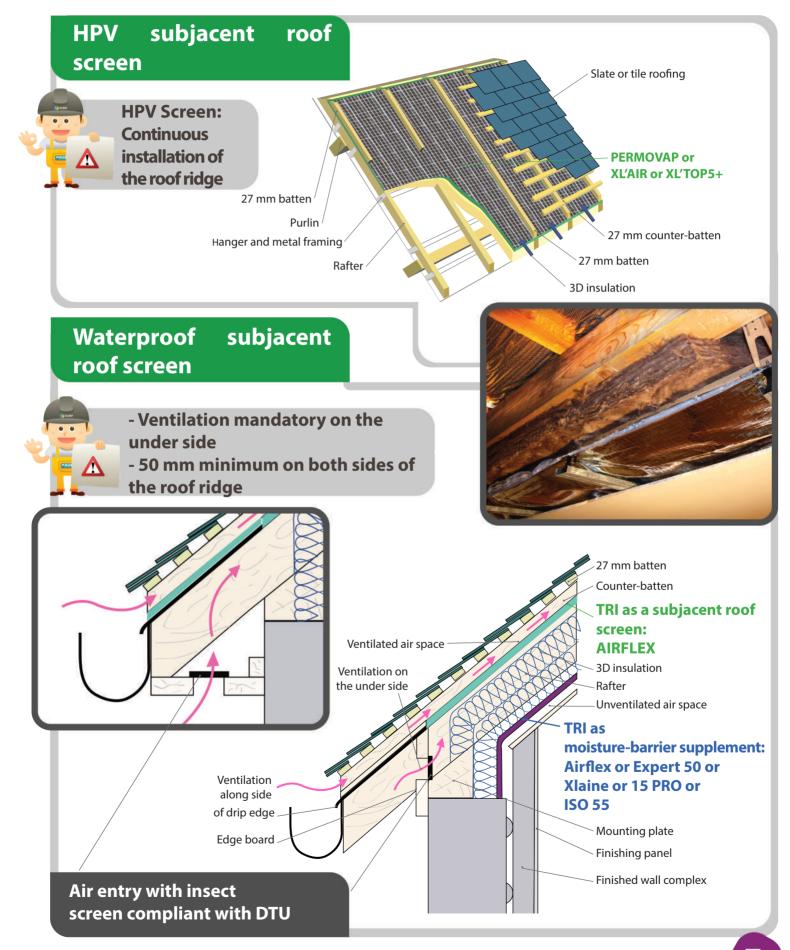
recommending a suitable solution.

#### TRI as a subjacent roof screen: AIRFLEX or PERMOVAP or XL'AIR or XL'TOP5+



## Installation of TRI as a subjacent roof screen with existing 3D insulation



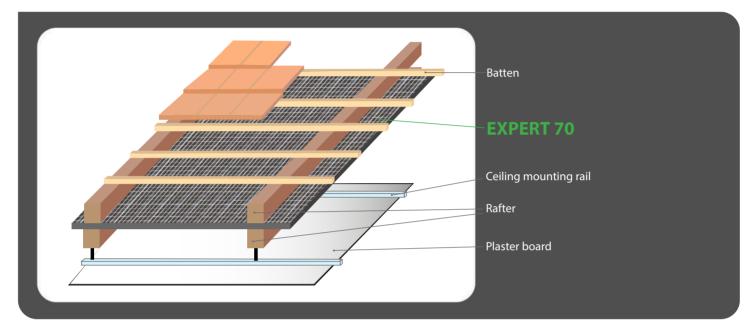




# Installation of TRI as a subjacent roof screen alone

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## Installation of EXPERT 70





Continuous installation of TRI with option to add an HPV subjacent roof screen such as Permovap, XL AIR or XL TOP 5+ (see installation on page 12)



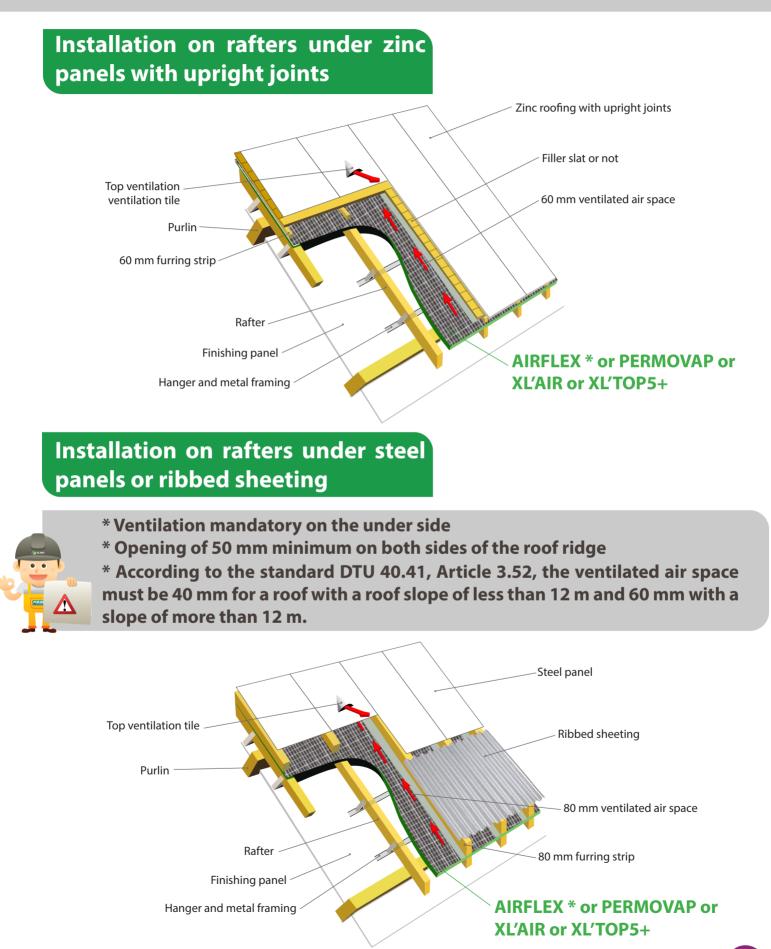


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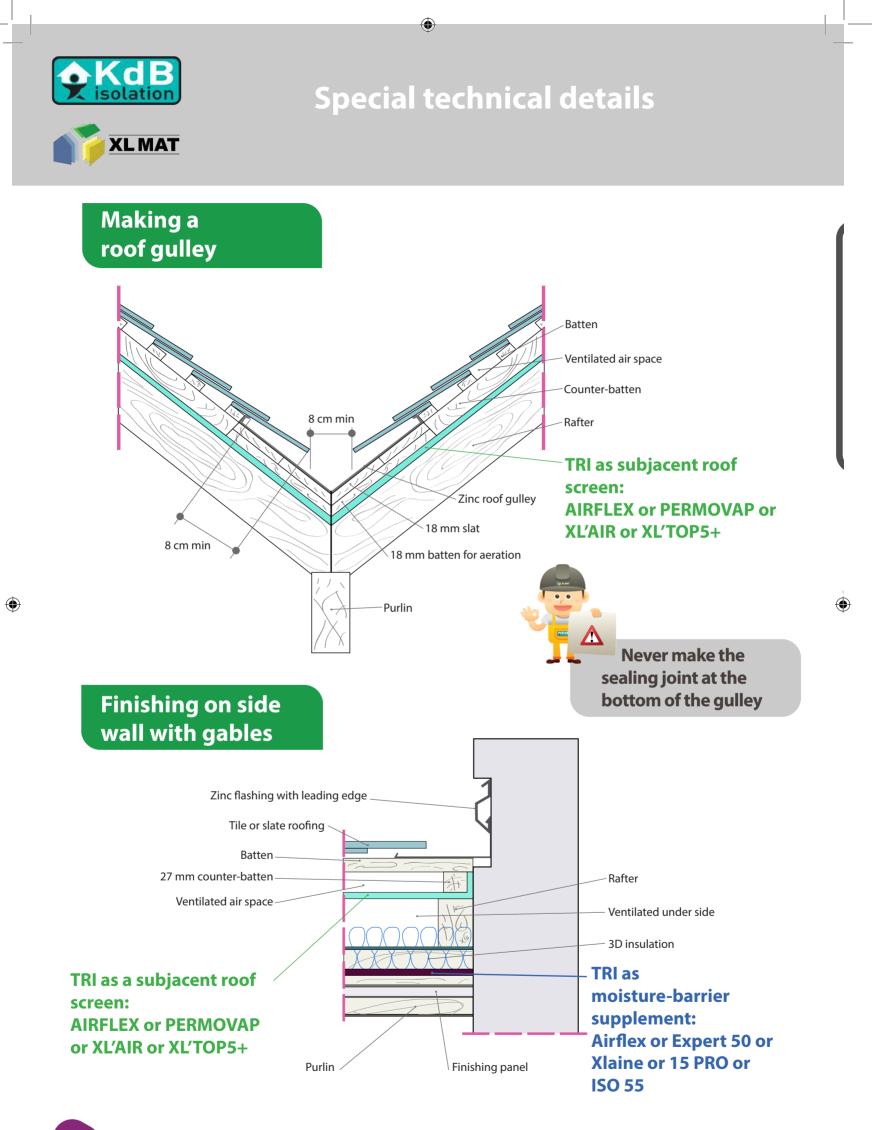


# Installation of TRI alone as a subjacent roof under zinc and steel panels



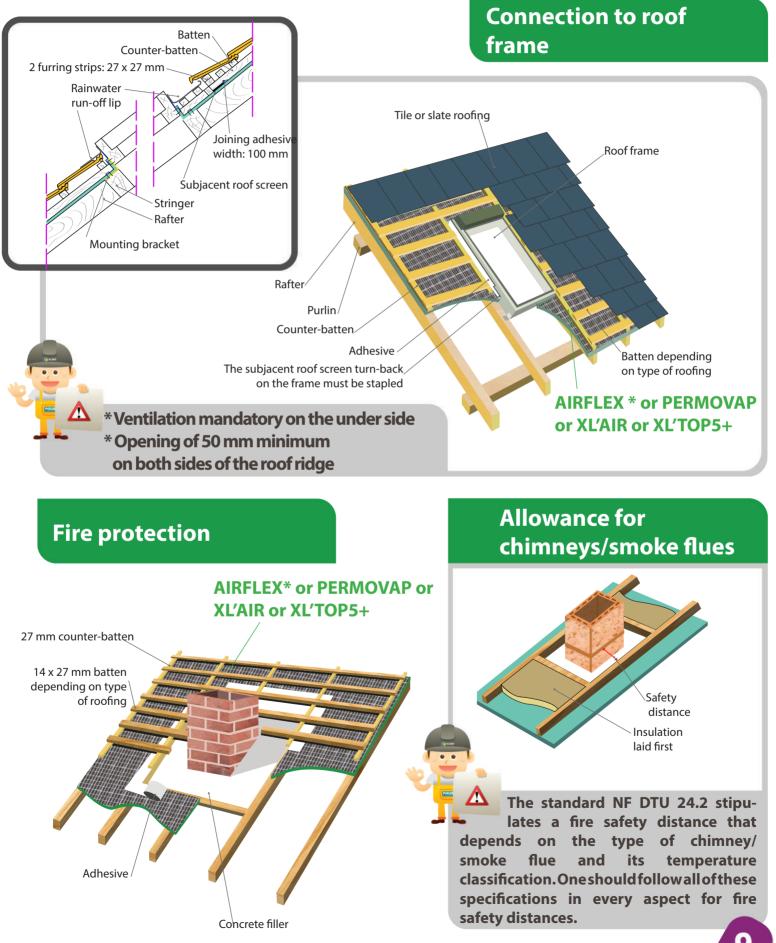


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## Installation of roof window and chimney flue



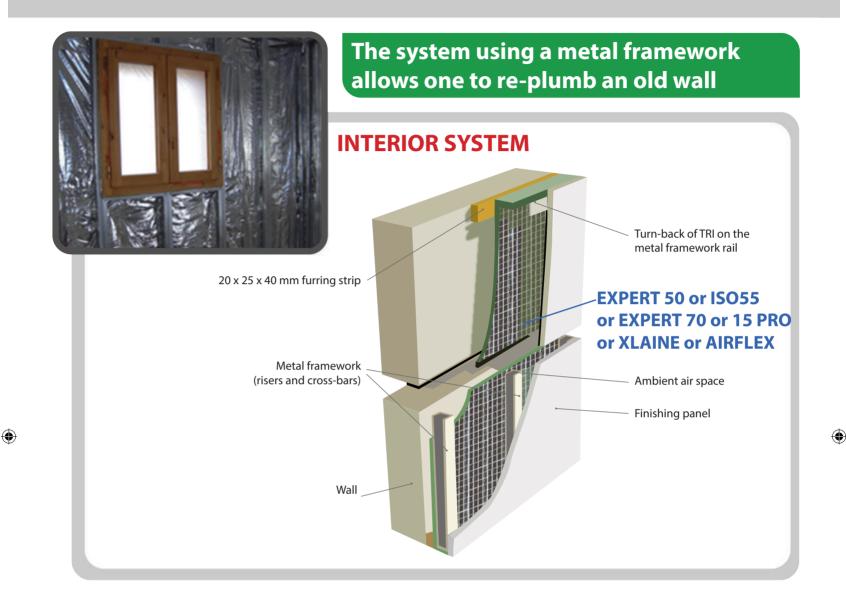




**XL MAT** 

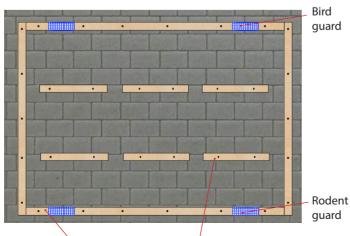
## Installation of TRI in a vertical wall interior and exterior

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Principle of using discontinuous furring strips to provide ventilation of the air space between the exterior wall and the reflective insulation

#### **EXTERIOR SYSTEM (HPV TRI)**



20 x 25 x 40 mm furring strip

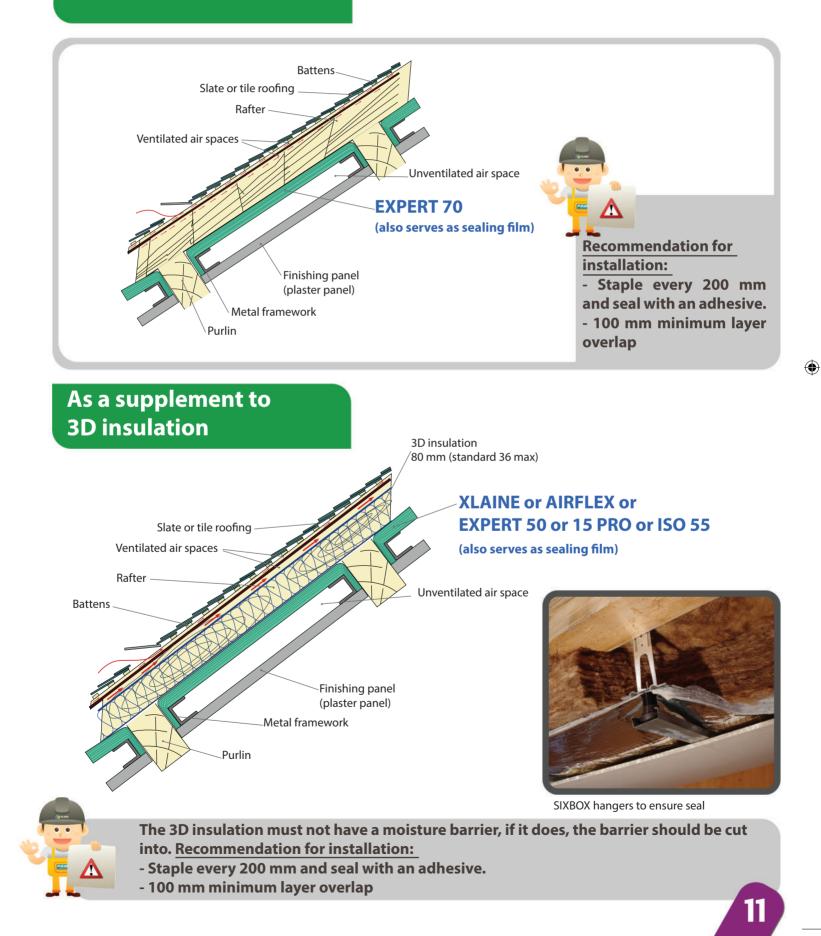


### Installation of TRI in a roof slope

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#### **Installation alone**



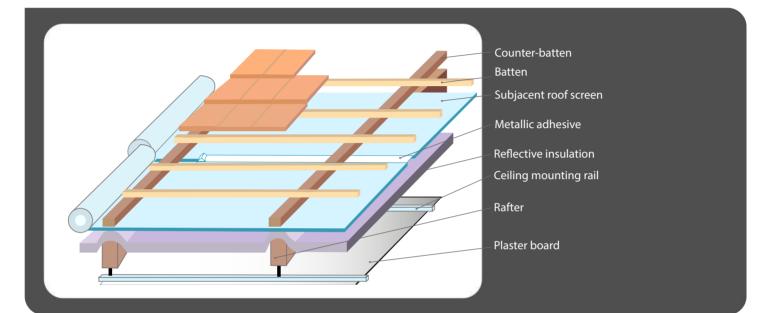


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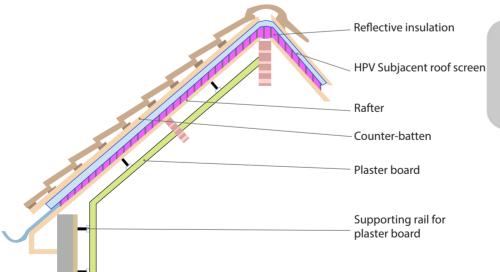
## Installation of TRI and a reflective subjacent roof screen

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#### Continuous installation of TRI and subjacent roof screen



Moisture-permeable subjacent roof screens: PERMOVAP, XL'AIR, XL TOP5+ THIN REFLECTIVE INSULATION (TRI): EXPERT 70, EXPERT 50, ISO 55, 15 PRO, XLAINE



Continuous installation of subjacent roof screen with closing at the roof ridge line

In case of holes drilled and at the ends of layers or Thin Reflective Insulation, be sure to create a complete seal using Kdb/XL MAT metallic 100 25 tape



## Product line XL MAT - KdB

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	FARMICATION F	RANGE	Applications Boos	Continued and Andrew	Cam Spaces (2)	Merior installation	Floor	S. S	Gound State	P. 2	athode
	EXPERT 70		(1)	X	x	(1)		x			
ine	EXPERT 50	<b>(</b>	(1)	x	x	(1)		x			
Our insulation line	XLAINE 18		(1)	x	x	(1)		x			
Our in	15 PRO		(1)	x	x	(1)		x			
	ISO 55		(1)	X	x	(1)		x			
ulation sories	AIR FLEX	<b>W</b>	(1)	x	x	(1)	x	x	x		
Our insulation accessories	DUOREFLEX		(1)	x	x	(1)	x	x	x		
r screens essories	PERMOVAP	<b>)</b>	x			x					
Moisture Our roof underlayer screens barrier HPV insulation accessories	XL'AIR		x			x					
Our roof HPV insi	XL TOP 5+	<b>(</b> )	x			x					
Moisture barrier	XL VAP	()		x	x			x			
Fire proof	MAX FEU	10 A	(1)	x	x			x			

(1) As part of exterior installations, ventilation on the underside must be included.(2) To comply with regulations, finish the insulation using a caulking insulator.

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**XL MAT** 

# Tips and Tricks for the installation of THIN REFLECTIVE INSULATION



Start installation at the top of the roof slope or vertical wall:

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- Use a few staples or double-sided tape to temporarily hold the product in place before attaching the first rail.
- $\checkmark$
- Type of wall mounting staples:
  - ▲ Dimension: 18 mm minimum.

This type of staples requires the use of a staple gun (electric or pneumatic).



For cutting, use:

Scissors with blades longer than 20 cm.



Pre-assemble all the adjacent sections on the ground using the built-in adhesive.



ThinReflectiveInsulationcanbeinstalledontheinnerside(heatedside) of a new structure, or existing structure between previously installed insulation, if any, and the interior wall or ceiling.



Thin Reflective Insulation can be installed with one or two air spaces on either side, regardless of the type of roof framing:

- Classic framing, or
- Industrial framing,
- Raised trusses, in new or existing structures.



The creation of air spaces adjacent to thin reflective insulation requires the installation of:

- Either a wood frame comprised of raised furring strips greater than or equal to 40 mm and treated with a preservative that is compatible with the other materials present,
- Or a metal frame comprised of rails U/40/50/40 and risers C/40/48/40, used to build walls made with plaster panels (see DTU 25.41 and standard NF P 72-203-1).



## **General information**

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Nails and screws can be used to install our thin reflective insulation and subjacent roof screens.



In the case of interior finishing with plaster caulking or other moisture-producing materials, plan for ventilation and maximum airing out over several days.



For structures at altitudes of more than 900 m, please refer to the special regulations for mountains.



100 mm minimum overlap of widths.



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As with all aluminium products, AIRFLEX must have an earthing connection for each panel.



When installing Airflex as a subjacent roof screen, one must leave an opening at the roof ridge line and gutter line.



Do not install lighting that emits high heat levels in ceilings or false ceilings.



Store Thin Reflective Insulation and subjacent roof screens indoors in both summer and winter.



In compliance with regulations, Thin Reflective Insulation must not be visible in inhabitable rooms.



Thin Reflective Insulation must not be perforated by mounting legs or hangers.

Our Thin Reflective Insulations designed for your projects

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### Roofs, Interior and Exterior walls, crawl spaces, and still more...

