

# TRI-ISO SUPER 10



## Basic installation procedures explained



### Rules for Installation

1. Ensure an air gap of 25mm minimum on either side of the insulation. Fig 1
2. Ventilation: Vapour permeable underlay: ensure an air gap of 25mm minimum between the insulation and membrane. The membrane should have a vapour resistance less than 0.25MNs/g.
3. Felted Roof: Ensure an air gap of 50mm minimum between the insulation and the felt, with ventilation from eaves to ridge according to British Standards.
4. Pull the insulation taut and staple every 50mm to the rafters or timber support using galvanized staples, 14mm minimum. 20mm stainless steel staples are recommended.
5. Overlap the insulation 50-100mm at each joint and staple every 50mm onto the rafter or timber support batten. Fig 2
6. It is IMPORTANT to cover all joints with the adhesive foil tape supplied to give an air tight finish. Fig 3
7. It is IMPORTANT to fold all finishing edges under by 50mm minimum, staple every 50mm, and secure with a final batten. Figs 4A and 4B

Fig 1  
Minimum 25mm air gap both sides

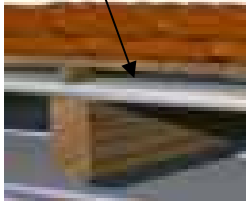


Fig 2  
50 to 100mm overlap

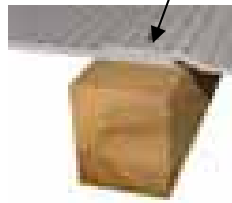


Fig 3  
Adhesive foil tape

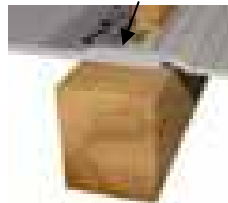


Fig 4A  
Fold over all finishing edges

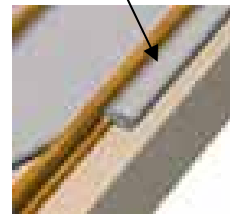
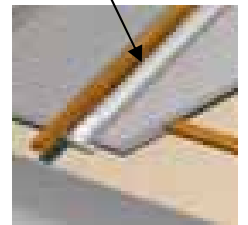


Fig 4B  
Fold over all finishing edges



### Over Rafter Application



TRI-ISO SUPER 10  
installed prior to fitting roof tiles

Roll insulation horizontally, starting along the bottom of the roof.

Insert timber support (as noggin) between rafters, enabling joint to be stapled and taped securely then:

Staple every 50mm (galvanised staples, 14mm minimum).  
Overlap joints 50-100mm and staple the joints every 50mm.

Cover joints with 75mm adhesive foil tape supplied.

Fix vertical battens in line with the rafters ensuring an air gap of 25mm minimum between the insulation and the membrane.

Fix membrane to manufacturer's instructions.

### Under Rafter Application



TRI-ISO SUPER 10  
Positioned under rafters

Roll insulation horizontally, starting along the top of the roof.

Insert timber support (as noggin) between rafters, enabling joint to be stapled and taped securely then:

Staple every 50mm (galvanised staples, 14mm minimum).  
Overlap joints 50 -100mm and staple the joints every 50mm.  
Cover joints with 75mm adhesive foil tape supplied.

At the bottom of the roof pitch staple the insulation directly onto the timber wall plate.

Prepare for plasterboard by fixing horizontal or vertical battens ensuring an air gap of 25mm minimum between the insulation and the plasterboard.

Fixing vapour checked plasterboard or a vapour control layer is recommended.

TRISO-SUPER 10 insulation is certified for use on walls around pitched roof installations such as dwarf walls, dormer walls and gable ends, as long as these constitute less than 40% of the overall insulated area.

**Please refer to the ACTIS TRISO-SUPER 10 Installation Guidelines for more detailed information on installation.**

## Installation Tips

### *Fire precautions*

Never expose TRISO-SUPER 10 to a direct heat source, sparks or a naked flame.

### *Chimneys inserts and heat exchangers*

Never use TRISO-SUPER 10 to insulate a chimney flue, an insert or heat exchanger.

Use a Euroclass A2 s1 d0 non-combustible insulation in accordance with British Standards.

### *Finishes*

As recommended by current regulations do not leave insulation exposed in habitable rooms.

Cover with a fire reproof finish such as plasterboard.

### *Soldering*

Keep blow torch well away from TRISO-SUPER 10, even when using a flame guard, and make sure that hot debris and sparks do not make contact with the insulation.

### *Direction of laying ACTIS insulation materials*

It is recommended that strips are laid horizontally but they can also be laid vertically, depending on the characteristics of the area to be insulated. TRISO-SUPER 10 may be laid either side up without affecting the efficiency of the insulation.

### *Staples*

We recommend using galvanized or stainless steel staples, 14mm minimum.

### *Contact between materials*

Avoid all contact between the insulation and lead, copper and its alloys.

Please email [sales@nbs-home.co.uk](mailto:sales@nbs-home.co.uk) for more specific advice.

### *Television aerials*

It is advisable to have an external television aerial when using TRISO-SUPER 10.

### *Storage*

TRISO-SUPER 10 should be stored under cover and protected from the elements.

### *Beware of the sun*

Once installed TRISO-SUPER 10 should not be left exposed to weathering for more than 3 days. When laying ACTIS insulation materials outside, protect eyes by wearing sunglasses, and protect against sunburn.

For more information on installation please see our TRISO-SUPER 10 Installation Guidelines document, PZ182.

## Special notice from ACTIS Insulation Limited



Thermal efficiency is carefully measured 'in-situ' under real weather conditions by the independent testing body TRADA Technology Ltd. The performance of the TRISO-SUPER 10 is compared to that of traditional mineral wool insulation materials tested concurrently and in identical conditions. This testing is strictly supervised and certified by BM TRADA Certification Limited (Certificate no. 0102 dated 3 April 2006).

There are currently no ISO and BS EN testing standards which are appropriate for innovative multi-foil insulation products.

Under the current legislative framework in England and Wales, Local Authority Building Control Bodies have the discretion to accept independent certification for insulation products, such as that provided for this product by BM TRADA. We strongly advise that you seek confirmation of this approval from your local Building Control Body before installing the TRISO-SUPER 10.

'In situ' testing gives a more accurate measurement of the actual performance of multi-foil products than the guarded hot-box test method, which is designed to test bulk insulation products, and is conducted in a controlled static laboratory environment. A hot-box measures heat transfer primarily by conduction, and does not take correctly into account heat transfer by radiation, which is the function of multi-foil products. The European Directive of Building Products includes a procedure which allows for the creation of new standards for innovative products, the Request for European Technical Approval (ETA). ACTIS have made an ETA request for thin multi-foil insulation products to the European Organisation for Technical Approvals (EOTA, the European body responsible for conducting this process). The aim of this request is to establish a new standard for assessing the thermal performance of thin multi-foil insulation, based on the in situ test methodology defined by BM TRADA, with a view to achieving CE marking for these products.

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ACTIS TRI-ISO SUPER 10 is conveniently available from:

**nationwide**  
**build**  
**shop limited** [www.nbs-home.co.uk](http://www.nbs-home.co.uk)