

V 2007



ACTIS THIN MULTIFOIL  
INSULATION

# TRISO-SUPER 10

DATA SHEET

ROOFS  
ATTICS



**ACTIS**

INVENTOR OF THIN MULTIFOIL INSULATION

# INSULATION FOR ROOFS AND ATTICS

## SPECIAL BENEFITS

TRISO-SUPER 10 has been tested under real conditions by TRADA Technology Ltd. and certified as equivalent to 210mm of mineral wool when installed in a pitched roof application by BM TRADA Certification Ltd. (Certificate no. 0102 dated 03 April 2006). Please see the



Special Notice on page 4 of this brochure for more information.



## OTHER ADVANTAGES

- Effective both in summer and winter:
  - in winter, it retains heat within buildings
  - in summer, it reflects radiation preventing overheating of attic rooms
- Space saving
- Clean and free from irritant fibres
- Durable-will not sag, moisture resistant
- Quick and easy to install: flexible, can be cut with scissors or ACTIS CUTTER, fitted by stapling

## TECHNICAL CHARACTERISTICS

### THERMAL EFFICIENCY: U-value\* = 0.19W/m<sup>2</sup>.K

\*Thermal efficiency measured under real conditions by TRADA Technology Ltd. and equivalent to 210mm of mineral wool as certified by BM TRADA Certification Ltd. For more information on testing under real conditions and the equivalence of performance of this product with 210mm of mineral wool please see the Special Notice on page 4 of this brochure

### PRODUCT DESCRIPTION

- |   |                                     |
|---|-------------------------------------|
| 19 components:                                      | Number of reflective films: 8       |
| - 2 external reflective films with reinforcing mesh | Surface weight: 600g/m <sup>2</sup> |
| - 3 wadding layers                                  | Thickness: 30mm approx.             |
| - 8 foam layers                                     |                                     |
| - 6 internal reflective films                       |                                     |

### MECHANICAL PROPERTIES

#### Breaking strength

	VALUE	REFERENCE STANDARD
Warp	>500N	BS EN ISO 13934-1
Weft	>400N	

#### Tear strength

Warp	>60N	BS EN ISO 13937-2
Weft	>60N	

### PACKAGING

	10m <sup>2</sup>	20m <sup>2</sup>
Width	1.60m	1.60m
Length	6.25m	12.50m
Weight (per roll approx.)	7kg	14kg

ACTIS ACCESSORIES:

ACTIS ISODHESIF tape



ACTIS CUTTER



## INSTALLATION SUMMARY

### ESSENTIAL RULES OF INSTALLATION

1



Ensure an air gap of 25mm minimum on either side of the insulation.

4



Overlap the insulation 50-100mm at each joint and staple every 50mm onto the rafter or timber support batten.

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.
- 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.

5

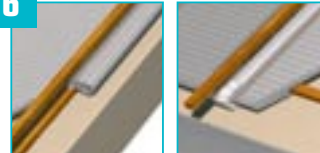


Cover all joints with ACTIS ISODHESIF tape to give an air tight finish.

3

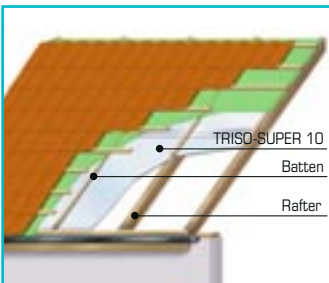
Pull the insulation taut and staple every 50mm to the rafters or timber support using galvanised staples, 14mm minimum. 20mm stainless steel staples are recommended.

6



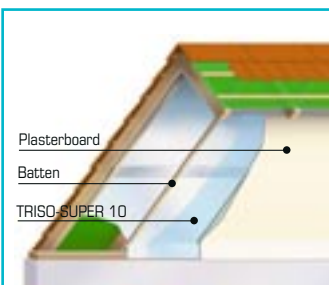
Fold all finishing edges under by 50mm minimum, staple every 50mm, and secure with a final batten

### OVER RAFTER APPLICATION



- 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:
  - Staple every 50mm (galvanised staples, 14mm minimum).
  - Overlap joints 50-100mm and staple the joints every 50mm.
  - Cover joints with 100mm ACTIS ISODHESIF foil tape.
- 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



- 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:
  - Staple every 50mm (galvanised staples, 14mm minimum).
  - Overlap joints 50-100mm and staple the joints every 50mm.
  - Cover joints with 100mm ACTIS ISODHESIF foil tape.
- 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 TRISO-SUPER 10 Installation Guidelines (PZ182) 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 fireproof 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 contact ACTIS 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

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 multifoil 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 multifoil 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 multifoil 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 multifoil 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 multifoil 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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Distributor details



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