ACTIS

TOMORROW'S INSULATION TODAY

TRISO-SUPER 10+

THIN MULTIFOIL INSULATION

UNDER RAFTER INSTALLATION GUIDELINES (see Figs 1-6)

TRISO-SUPER 10+ is suitable for use in an under rafter application providing the ideal option for loft conversions and saving space.

N.B. Ensure an air gap of 25mm minimum (or that provided by a 38mm batten) on either side of the insulation.

1. If required install secondary insulation between rafters to achieve Part L compliance, aligning a 25mm air gap (minimum) to the underside (i.e. a sealed air gap needs to be between the **TRISO-SUPER 10+** and the mineral wool / rigid board insulation).
2. ACTIS recommends fixing timber supports (as noggins) between the rafters, enabling the **TRISO-SUPER 10+** joints to be stapled and taped securely. Continue to fix noggins every 1500mm as appropriate.
3. Lay **TRISO-SUPER 10+** across the face of the rafters fixing in a continuous layer horizontally, starting at the ridge. Staple in place every 50mm using galvanised staples (14mm minimum, although 20mm staples are recommended) keeping as taught as possible (can be installed vertically if required).
4. Fix next layer of insulation to overlap previous layer by 50-100mm. Staple to noggin and seal with 100mm **ACTIS ISODHESIF** tape.
5. Ensure all perimeter edges of the **ACTIS** insulation are folded under by 50mm, stapled and battened to stop air ingress.
6. Any exposed edges must be sealed with reflective tape to prevent ingress of moisture to the inner layers of the insulation.
7. Visually inspect installed insulation to ensure the finish is as air tight as possible.
8. Prepare for plasterboard by fixing horizontal or vertical battens (50 x 38mm) using nails, through the **ACTIS** insulation to the rafter.
9. Fixing standard plasterboard is recommended.

If using **insulated plasterboard** as the secondary insulation follow steps 2 – 8 as above, then attach insulated plasterboard.

Ventilation

Felted Roof
Ensure an air gap of 50mm minimum between any insulation and the felt, with ventilation from eaves to ridge according the British Standards.

Vapour Permeable Underlay (Breather Membrane) The membrane should have a vapour resistance of less than 0.25 MNs/g to eliminate the need for ventilation.

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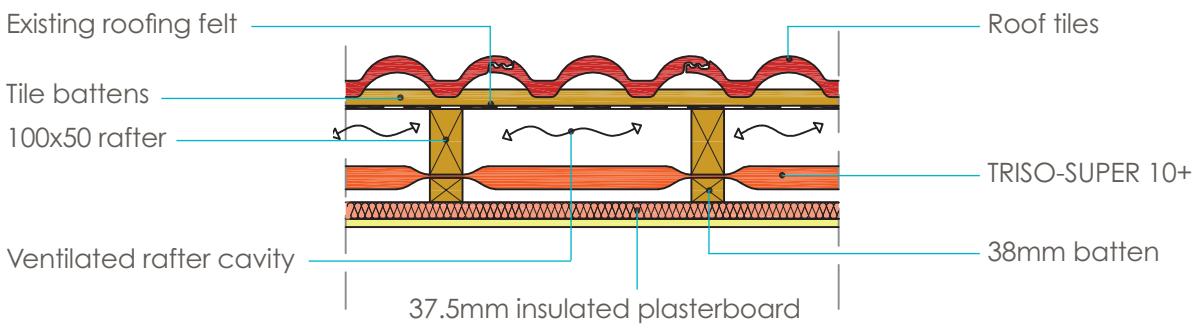
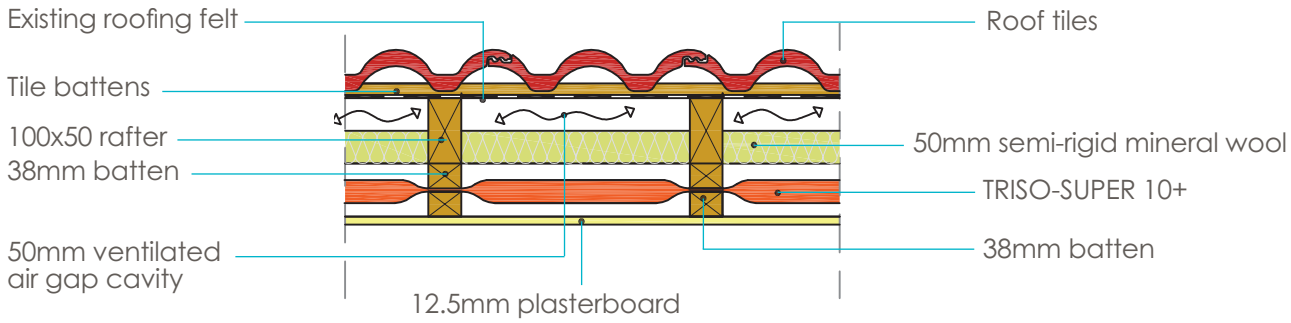
REFURBISHMENT APPLICATIONS

Fig 1



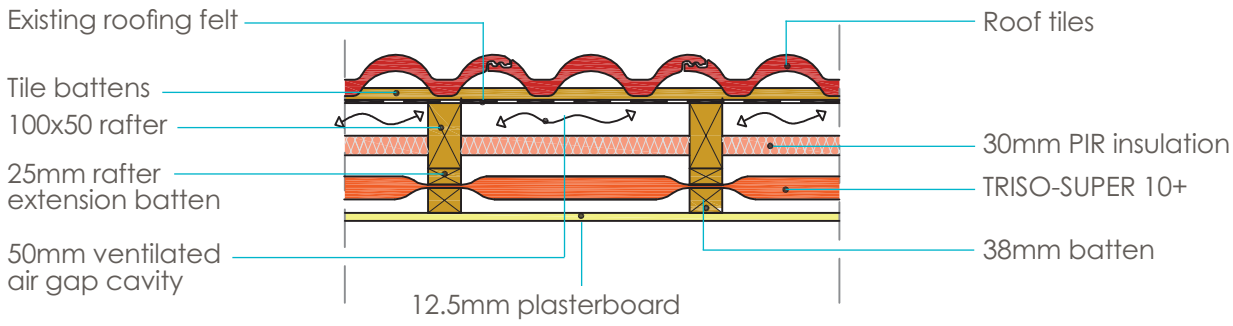
Partial refurbishment / conversion with
TRISO-SUPER 10+ and 37.5mm insulated plasterboard = 0.18W/m²K U-value

Fig 2



Partial refurbishment / conversion with
TRISO-SUPER 10+ and 50mm semi-rigid mineral wool = 0.18W/m²K U-value

Fig 3



Partial refurbishment / conversion with
TRISO-SUPER 10+ and 30mm PIR = 0.18W/m²K U-value

It is recommended that the opinion of Building Control is obtained prior to specification or installation.

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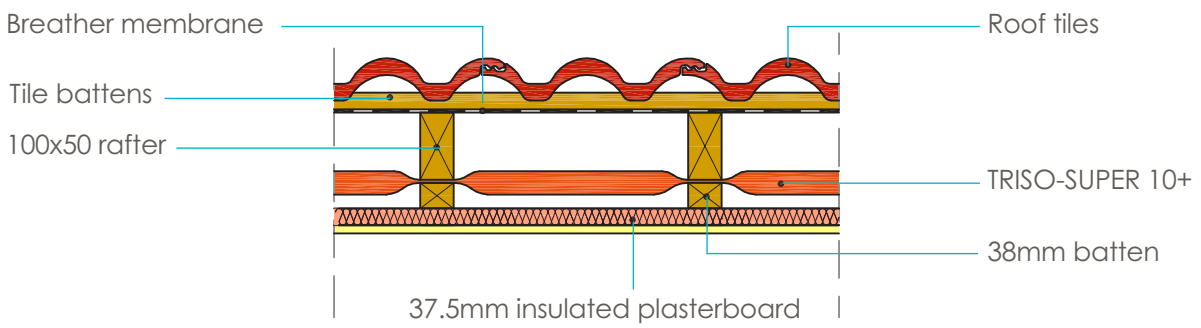
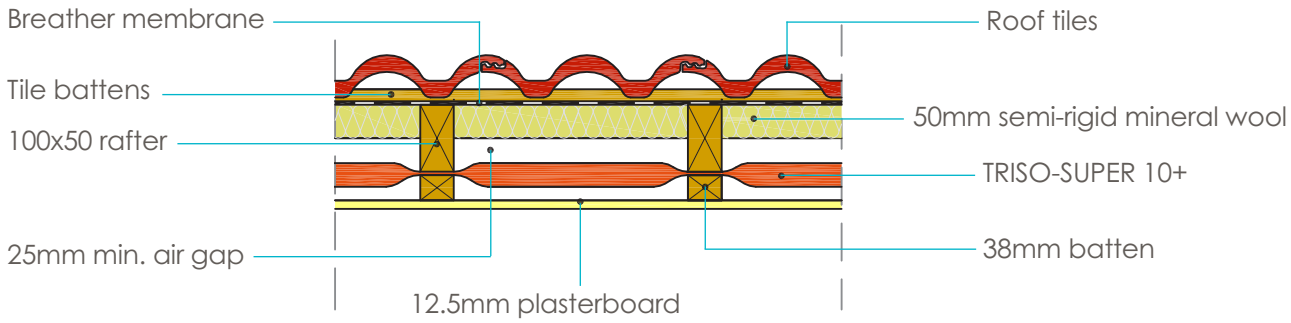
NEW BUILD APPLICATIONS

Fig 4



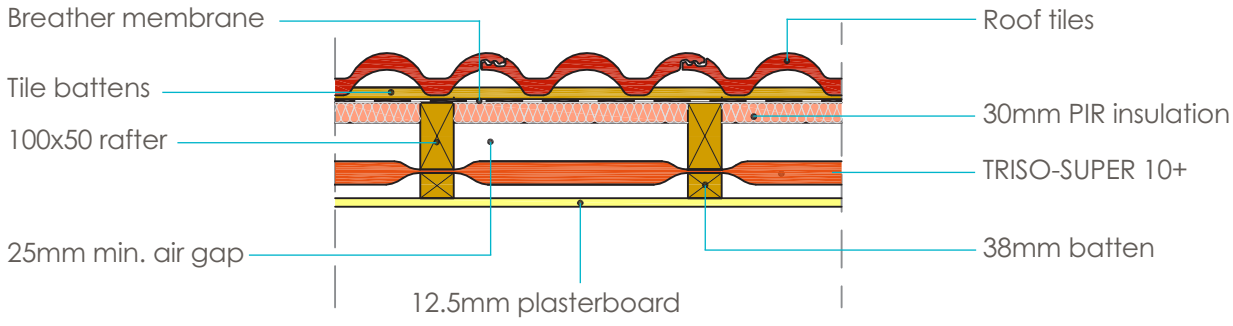
New build and total refurbishment / conversion with TRISO-SUPER 10+ and 37.5mm insulated plasterboard = 0.18W/m²K U-value

Fig 5



New build and total refurbishment / conversion with TRISO-SUPER 10+ and 50mm semi-rigid mineral wool = 0.18W/m²K U-value

Fig 6



New build and total refurbishment / conversion with TRISO-SUPER 10+ and 30mm PIR = 0.18W/m²K U-value

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SAFETY PRECAUTIONS AND RECOMMENDATIONS

How to get the most from your ACTIS product

IMPORTANT: in addition to the specific recommendations given by ACTIS below, your ACTIS product should be installed and used in compliance with (1) good building practice; (2) the most recent editions of any applicable regulations or relevant guidance and (3) any British or Eurpean Standards relating to the installation and use of insulation products, particulary in relation to safety precautions.

Fire precautions

Never expose ACTIS insulation to a direct heat source, sparks or naked flame.

Keep blow torches well away from ACTIS insulation, even when using a flame guard or other protective device, and make sure that hot debris and sparks do not make contact with the insulation.

Fireproof finishes and compartment walls

As recommended by current regulatory guidance, **do not leave insulation exposed in habitable rooms**. We recommended that ACTIS insulation is **always** covered with a fire proof finish such as plasterboard (see, for example, the fire safety provisions contained in Approved Document B, which provides practical guidance on the fire safety requirements of the Building Regulations 2000 (as amended) in England and Wales; or refer to the relevant provisions in Scotland and Northern Ireland, as amended from time to time).

To ensure that compartment walls achieve the requisite levels of fire resistance, the insulation should not be carried over junctions with such walls (again, please refer to the fire safety provisions contained in Approved Document B noted above, or to any applicable provisions in Scotland and Northern Ireland, as amended from time to time).

TRISO-SUPER 10+ is not fire rated and has **Euroclass classification F**.

Chimneys, flues, heat exchangers and other sources of heat

Never use ACTIS insulation to insulate a chimney flue, heat exchanger or any other heat source above 80°C. Use a Euroclass A1 non-combustible insulation in compliance with British or European Standards. ACTIS advise leaving a minimum gap of 200 mm between the insulation and chimneys, flues, heat exchangers and all other sources of heat above 80°C.

PLEASE SEEK ADVICE FROM **ACTIS** BY CALLING THE HELPLINE ON **01249 462 888** AND CHECK WITH YOUR LOCAL BUILDING CONTROL OFFICER BEFORE INSTALLING **ACTIS** INSULATION NEAR ANY SOURCE OF HEAT ABOVE **80°C**.

Down-lighters and recess lighting

The use of down-lighters or recess lighting in conjunction with ACTIS insulation is not recommended. Unless special precautions are taken, this poses an elevated fire risk.

However, if the use of such recess lighting in conjunction with ACTIS insulation is desired, encasing the down-lighter appropriately with non-combustible material may provide adequate fire protection, **but in all cases advice should be sought from the relevant Building Control officer who will give guidance on a case by case basis.**

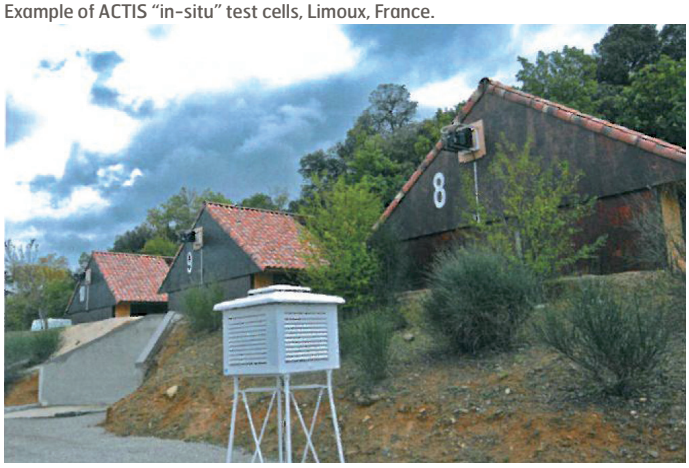
Contact between materials and compatibility between products

Avoid all contact between ACTIS insulation and lead, zinc, copper and its alloys as well as caustic products.

Sun protection

When laying ACTIS insulation materials outside, remember that multi-foil insulation is highly reflective. Where the product is being installed in bright or sunny weather conditions, appropriate eyewear should be worn (such as sunglasses conforming to the most stringent requirements of BS EN 172, as amended from time to time) and protect against sunburn.

Example of ACTIS "in-situ" test cells, Limoux, France.



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