

ACTIS

TOMORROW'S INSULATION TODAY

TRISO-SUPER 10+

THIN MULTIFOIL INSULATION

WALL INSTALLATION GUIDELINES (see Figs 10-15)

Subject to Building Control approval TRISO-SUPER 10+ works well as wall insulation particularly if upgrading existing external walls.

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

Solid masonry wall

1. Fix 50 x 38mm vertical battens at a maximum of 600mm centres to the brickwork, masonry or block work, together with further battens around the perimeter of the wall (see Fig 10).
2. Using galvanised staples (14mm minimum, although 20mm are recommended) the **TRISO-SUPER 10+** is rolled out over the battens and stapled to the batten framework every 50mm, pulling the insulation as taught as possible.
3. Joining two layers together requires the second layer to overlap the installed layer by 50 - 100mm and be sealed with reflective tape to ensure air tightness.
4. Ensure all perimeter edges of the **ACTIS** insulation are folded under by 50mm, stapled and battened to stop air ingress.
5. Any remaining exposed edges must be sealed with reflective tape to prevent ingress of moisture to the inner layers of the insulation.
6. Visually inspect installed insulation to ensure the finish is as air tight as possible.
7. A second 50 x 38mm batten layer is then nailed through the TRISO-SUPER 10+ to the first batten layer. It can be fixed either vertically or horizontally. This will also provide a service void.
8. Standard plasterboard is then screwed to the second batten framework with 30mm Gypsum or Driwall screws every 300mm, or it can be fixed with nails.
9. For other configurations of solid walls, see Figs 11 and 12

Timber frame wall

1. When used internally **TRISO-SUPER 10+** can be rolled out and stapled directly to the stud work (see Figs 13 - 15).
2. Using galvanized staples (14mm minimum, although 20mm are recommended) the **TRISO-SUPER 10+** is rolled out across the studs and stapled every 50mm, pulling the insulation as taught as possible.
3. Continue fixing as described in steps 3 - 6 under Solid masonry wall.
4. 50 x 38mm battens are then nailed through the **TRISO-SUPER 10+** and into the stud work. These can be fixed either vertically or horizontally and will also provide a service void.
5. Fixing standard plasterboard is then required.

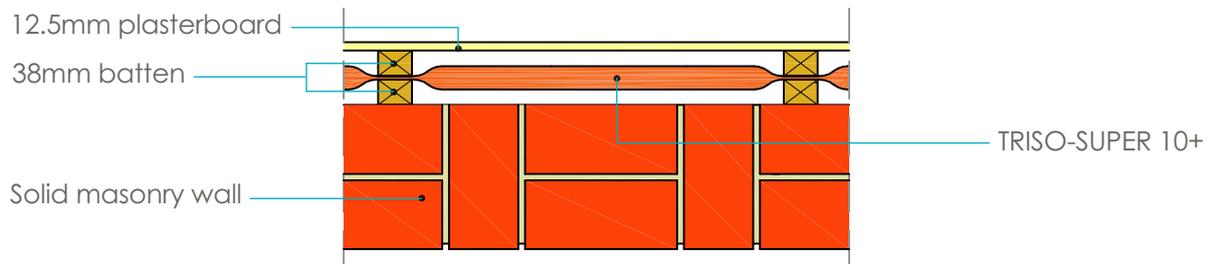


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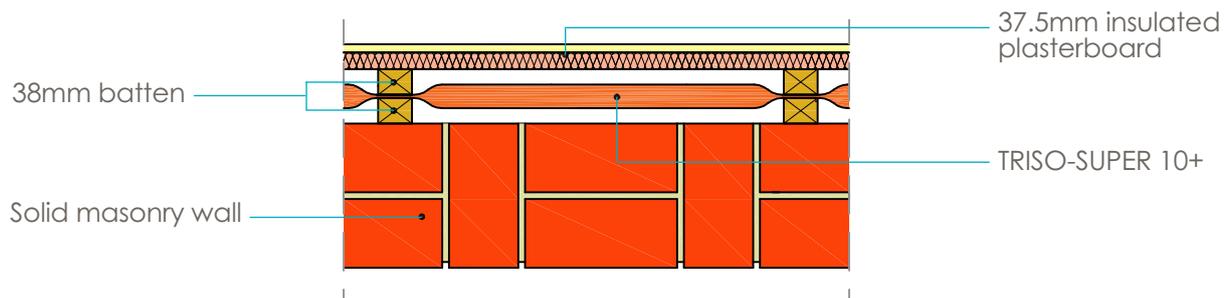
SOLID MASONRY WALLS

Fig 10



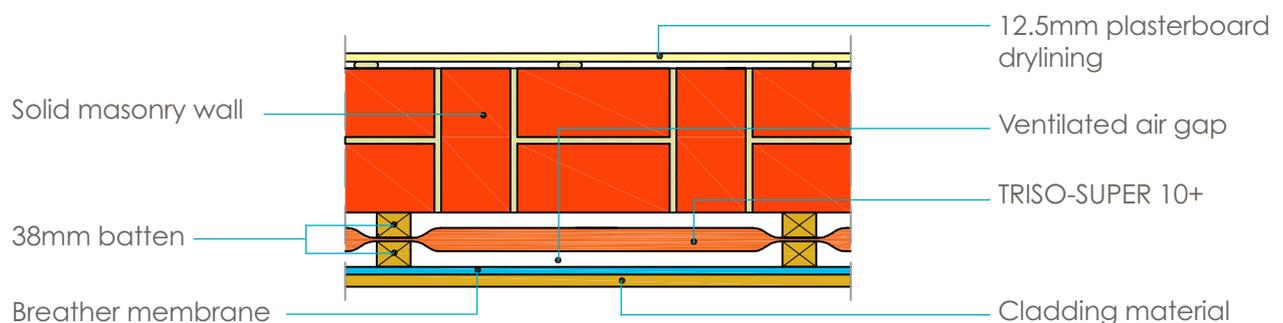
**Solid Masonry Wall internal Insulation
TRISO-SUPER 10+
0.21 W/m²K U-value**

Fig 11



**Solid Masonry Wall internal Insulation
TRISO-SUPER 10+
0.17 W/m²K U-value**

Fig 12



**Solid Masonry Wall external Insulation
TRISO-SUPER 10+ with dry-lining
0.21 W/m²K U-value**

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

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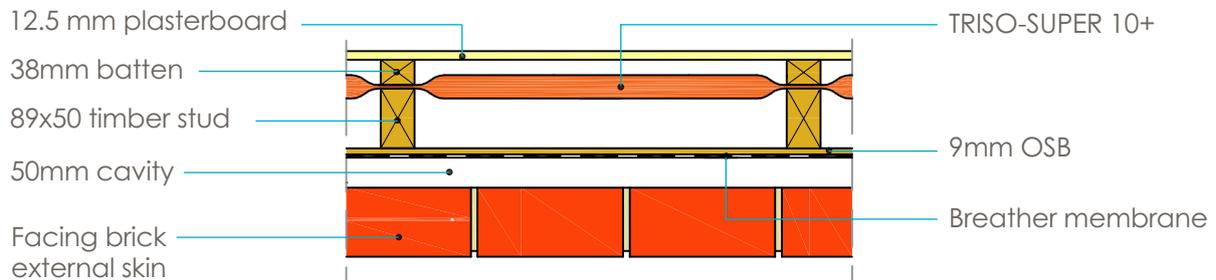
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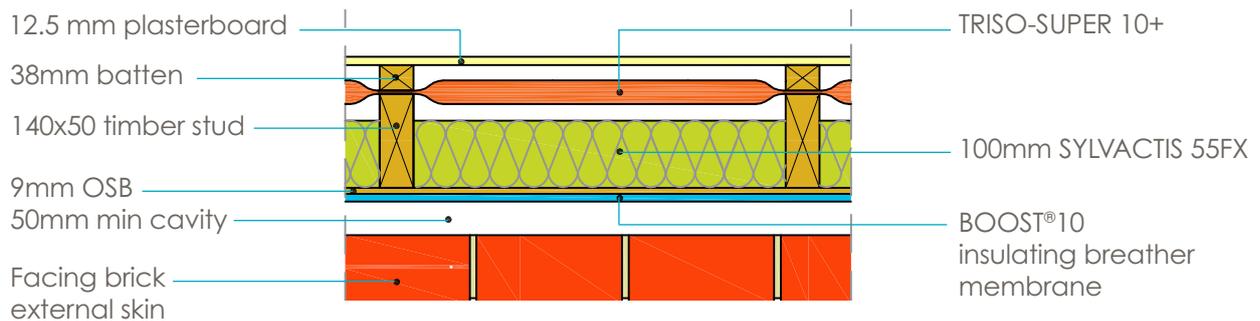
TIMBER FRAME WALLS

Fig 13



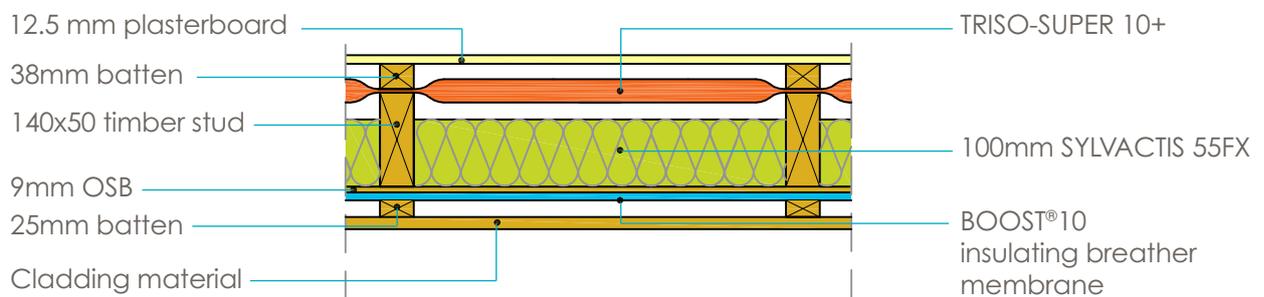
Timber Frame Wall
TRISO-SUPER 10+ with 89mm stud frame
0.22 W/m²K U-value

Fig 14



Timber Frame Wall
TRISO-SUPER 10+ with 100mm Sylvactis 55FX
0.13 W/m²K U-value

Fig 15



Dormer / Dwarf Wall
TRISO-SUPER 10+ with 100mm Sylvactis 55FX
0.13 W/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 European Standards relating to the installation and use of insulation products, particularly 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 recommend 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.**

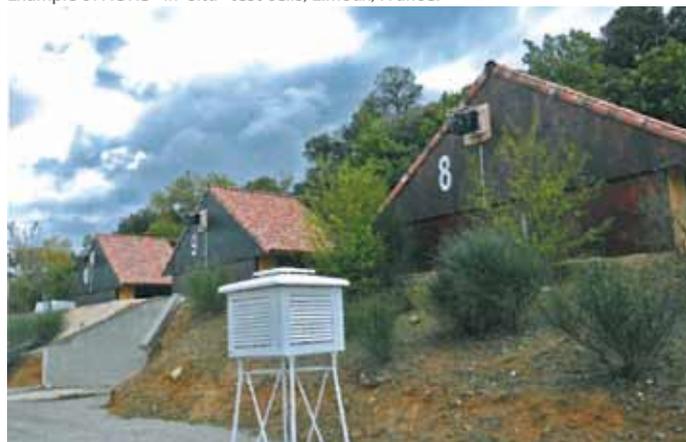
Contact between materials and compatibility between products

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.



ACTIS INSULATION LTD.

Unit 1 Cornbrash Park – Bumpers Way
Bumpers Farm Industrial Estate – Chippenham
Wiltshire – SN14 6RA

Tel. +44 (0) 1249 462 888 / Fax. +44 (0) 1249 446 345
Email : solutions@actis-insulation.com



www.insulation-actis.com

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