Insulating membrane technology: boosts thermal performance and manages condensation

Our products improve the thermal performance of a roof or wall. They are combined with standard insulation to save space, avoid a risk of condensation and speed up installation times.

TLX products reduce heat gain in summer and heat loss in winter.

We have led the industry since 1997:
- 1997 – First three-layer breather membrane
- 2005 – First insulating vapour barrier
- 2008 – First insulating breather membrane
- 2010 – First hybrid insulation guide

All our products are backed up by the BBA, European Technical Approvals and LABC registered details.

For any hybrid system you only need TLX Silver and TLX Gold for 90% of the solutions. From the outside you need a product which breathes but doesn’t require a vapour barrier – TLX Gold. From the inside you need a vapour barrier which doesn’t breathe – TLX Silver. It’s as simple as that.

We have a team of specialists who understand the problems associated with the UK building stock. They will work with you to reduce installation costs and get the best thermal performance from the available space.

So, when you buy a TLX product you get the resources and knowledge of a company who sets the standards of excellence for multi-foil insulation.

THE EASY WAY TO INSULATE ABOVE RAFTERS

TLX Gold is an ‘S, intelligent’ 2 in 1 insulating breather membrane. It doesn’t need a vapour barrier to avoid condensation risk. It adjusts its rate of breathability according to the amount of moisture. TLX Gold is completely watertight and air tight. It is simply rolled out across rafters and can be installed without raising the roof height. On its own, TLX Gold can reduce heat loss by 86%.

How does TLX Gold 2 in 1 work?

INSULATES FROM THE INSIDE

TLX Silver wraps the inside of buildings. It prevents condensation risk by stopping moisture entering the roof void from the inside of the building. Installed to the underside of rafters and across joists, it’s also certified for use in timber frame and solid masonry walls. Combined with other products TLX Silver can deliver U-values as low as 0.13 W/m² K in a standard roof.
Working from the outside

Whether it’s a roof refurbishment or new build project, TLX Gold is the product for today’s roofers. This combined breathable roofing membrane and insulation with a breathable reflective layer has the answers.

- Upgrades thermal performance externally without risk of condensation
- Heat reflecting, waterproof and airtight
- Maintains roofline and maximises internal head room
- Fast and easy to install, certified and guaranteed
- Externally fitted with minimum disturbance
- Provides an improved insulation solution
- CE marked, BBA certified, LABC approved build-ups

Working from the inside

BBA certified, TLX Silver offers time-saving 0.18 solutions. It stops air leakage by providing an air-tight vapour barrier and restricting air movement in its multi-foil layers.

- Fitted below any depth rafter to improve thermal performance
- Prevents condensation by providing a vapour barrier and stops water vapour from entering the roof structure
- Lightweight and flexible for quick and easy installation
- Reduces the depth of stud needed in new builds
- BBA certified to internally insulate new timber frame or existing masonry walls
NO CONDENSATION RISK BECAUSE IT BREATHES
Unique 2 in 1 insulating breather membrane that’s intelligent. It doesn’t require a vapour barrier.

TYPICAL TLX SOLUTIONS...

HISTORIC AND PUBLIC BUILDINGS

75mm rafter: U-value = 0.69

- TLX Gold
- Unvented air layer
- Plasterboard

RE-ROOFING SOCIAL AND PRIVATE HOUSING

75mm rafter: U-value = 0.34

- Batten
- Ventilated air layer
- TLX Gold
- Unvented air layer
- 50mm PIR (0.022)
- Plasterboard

BARN CONVERSION

Exposed rafter: U-value = 0.18

- Ventilated air layer
- TLX Gold
- 50mm counter batten
- Unvented air layer
- 90mm PIR (0.022)
- Plasterboard

NEW BUILD AND EXTENSIONS

150mm rafter: U-value = 0.18

- Ventilated air layer
- TLX Gold
- Unvented air layer
- 110mm phenolic (0.020)
- Plasterboard

Working from the inside

NO CONDENSATION RISK BECAUSE IT’S A VAPOUR BARRIER
Unique 2 in 1 insulating vapour barrier. Makes all kinds of roofing jobs faster, easier and more efficient.

TYPICAL TLX SOLUTIONS...

LOFT CONVERSIONS

Below 100mm rafter + 80mm foiled rigid insulation: U-value = 0.18

- 17.5mm
- 50mm ventilated air gap
- 80mm foiled rigid insulation
- 40mm spacer batten
- TLX Silver
- 38mm batten
- 12.5mm plasterboard

NEW BUILD

Below 100mm rafter + 70mm foiled rigid insulation: U-value = 0.18

- TLX UV breather membrane
- Air gap
- Spacer batten min 10mm
- TLX Silver
- 38mm batten
- 12.5mm plasterboard

WALLS

Inside stud + glass wool 140mm stud: U-value = 0.28

- Brick cladding
- Insulation
- TLX UV breather
- Membrane
- Sheathing
- 140mm glass wool (0.032)
- TLX Silver
- 12.5mm plasterboard

All based on 600mm rafter centres

TLX 01204 674730
We’ve got the answers... just ask
### TLX PRODUCT BENEFITS

<table>
<thead>
<tr>
<th>Benefit</th>
<th>TLX Gold 2x1</th>
<th>TLX Silver 2x1</th>
</tr>
</thead>
<tbody>
<tr>
<td>Minimises amount of conventional insulation required to meet Part L requirements</td>
<td>✔️</td>
<td>✔️</td>
</tr>
<tr>
<td>2 in 1 insulating breather membrane</td>
<td>✔️</td>
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<tr>
<td>2 in 1 insulating vapour barrier</td>
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<td>✔️</td>
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<tr>
<td>No wind uplift restrictions</td>
<td>✔️</td>
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</tr>
<tr>
<td>Maintains roofline</td>
<td>✔️</td>
<td></td>
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<tr>
<td>$S_a$ Intelligent*</td>
<td>✔️</td>
<td></td>
</tr>
<tr>
<td>Uses unventilated air gaps to boost thermal performance</td>
<td>✔️</td>
<td>✔️</td>
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<tr>
<td>Wraps around awkward junctions</td>
<td>✔️</td>
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<tr>
<td>Saves headroom</td>
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<tr>
<td>Airtight</td>
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<tr>
<td>Integrated tape</td>
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<td>Lightweight</td>
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<tr>
<td>Easy to handle</td>
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<tr>
<td>No protective clothing required</td>
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<td>Easy to cut</td>
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</table>

*The more moisture the more it breathes*

### BREATHER MEMBRANES

- Over 100 million metres sold worldwide
- Approved for use in cold, non-ventilated roof systems
- Approved for use in walls
- Lightweight, high strength, slip resistant
- Made in the UK

<table>
<thead>
<tr>
<th>TECHNICAL DATA</th>
<th>Standard</th>
<th>Professional</th>
<th>Heavy Duty</th>
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<tbody>
<tr>
<td>Width</td>
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<td>1m, 1.5m</td>
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<td>130 g/m²</td>
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<tr>
<td>Tensile strength, MD</td>
<td>285 N/50mm</td>
<td>305 N/50mm</td>
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<tr>
<td>Tensile strength, CD</td>
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<tr>
<td>Nail tear MD</td>
<td>148 N</td>
<td>197 N</td>
<td>294 N</td>
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<tr>
<td>Nail tear CD</td>
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<td>134 N</td>
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<td>Water vapour resistance</td>
<td>0.21 MNs/g</td>
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<td>MVTR</td>
<td>&gt;1500 g/(m² 24hr)</td>
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<td>Hydrostatic head</td>
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