



**INSULATION EXCELLENCE**

# PRODUCT GUIDE

THIN, REFLECTIVE INSULATION  
AND BREATHER MEMBRANES





## INSULATION EXCELLENCE

### 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.



We've got the answers... just ask



## THE EASY WAY TO INSULATE ABOVE RAFTERS

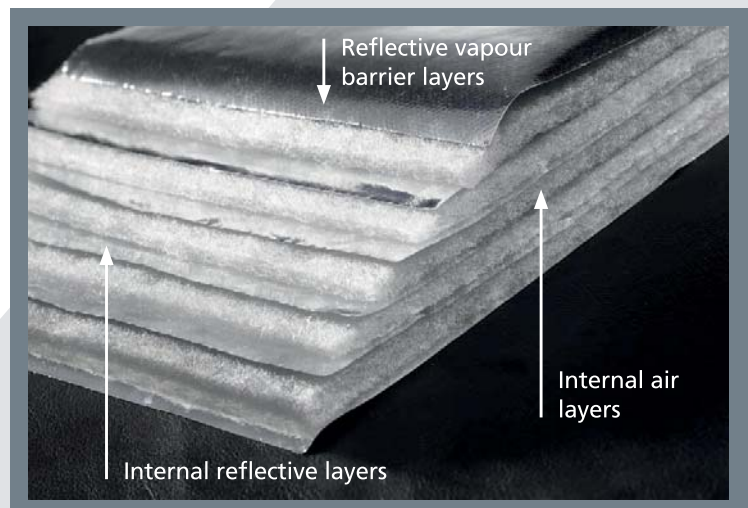
TLX Gold is an 'S<sub>d</sub> intelligent' 2 in 1 insulating breather membrane. It doesn't need a vapour barrier to avoid condensation risk. It adjusts its rate of breathability according to the amount of moisture. TLX Gold is completely watertight and air tight. It is simply rolled out across rafters 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?

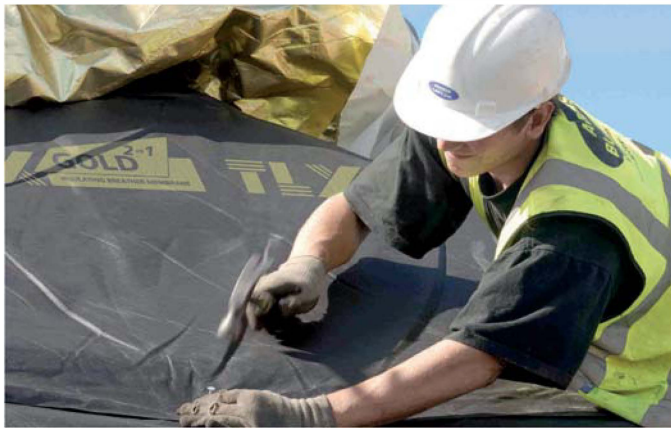


## INSULATES FROM THE INSIDE

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/m<sup>2</sup> K in a standard roof.

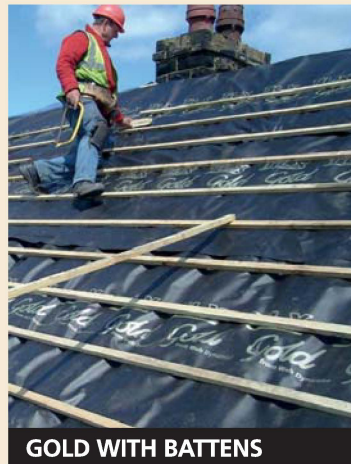


## Working from the outside



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
- UKCA marked, BBA certified, LABC approved build-ups



**GOLD WITH BATTENS**



**DRAPED BETWEEN RAFTERS**



**STRETCHED TAUT**



**VIEWED FROM INSIDE**

## 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



**SILVER WITH BATTENS**



**WRAPPING JUNCTIONS**



**ON WALL**



**FROM ROOF TO WALL**

## Working from the outside

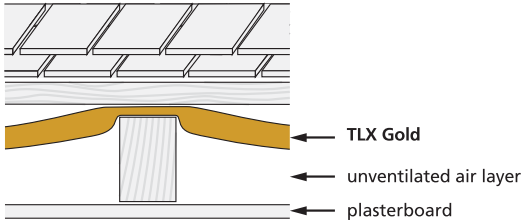
### NO CONDENSATION RISK BECAUSE IT BREATHES

Unique 2 in 1 insulating breather membrane that's  $S_d$  intelligent. It doesn't require a vapour barrier.

### TYPICAL TLX SOLUTIONS...

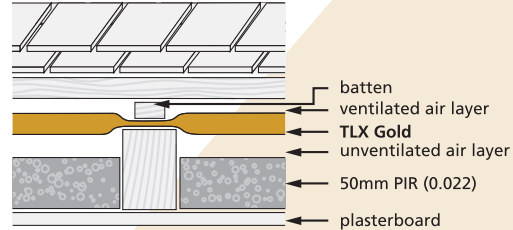
#### HISTORIC AND PUBLIC BUILDINGS

75mm rafter: U-value = 0.69



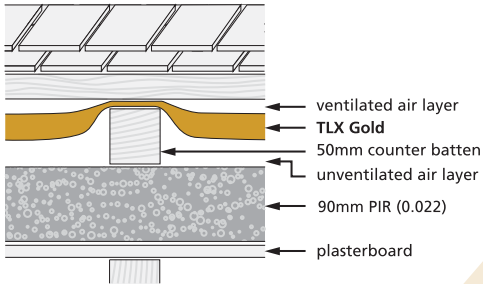
#### RE-ROOFING SOCIAL AND PRIVATE HOUSING

75mm rafter: U-value = 0.34



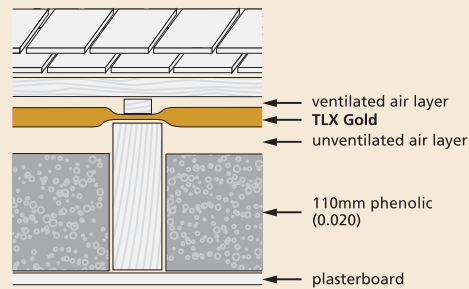
#### BARN CONVERSION

Exposed rafter: U-value = 0.18



#### NEW BUILD AND EXTENSIONS

150mm rafter: U-value = 0.18



## Working from the inside

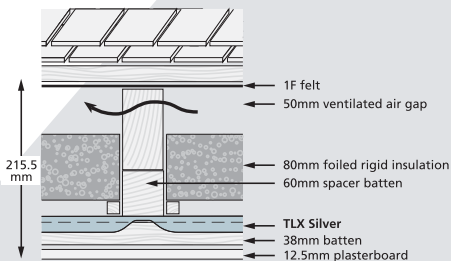
### NO CONDENSATION RISK BECAUSE IT'S A VAPOUR BARRIER

Unique 2 in 1 insulating vapour barrier. Makes all kinds of roofing jobs faster, easier and more efficient.

### TYPICAL TLX SOLUTIONS...

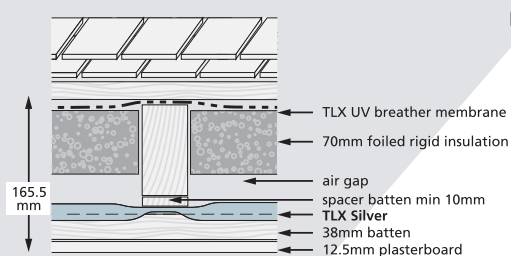
#### LOFT CONVERSIONS

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



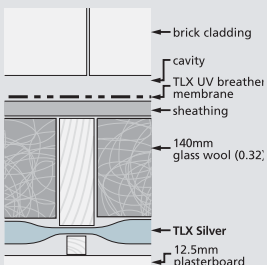
#### NEW BUILD

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



#### WALLS

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



All based on 600mm rafter centres

**THERMAL  
HOTLINE**  
**TLX** 01204 674730

We've got the answers... just ask

## TLX PRODUCT BENEFITS

		
Minimises amount of conventional insulation required to meet Part L requirements	✓	✓
2 in 1 insulating breather membrane	✓	
2 in 1 insulating vapour barrier		✓
No wind uplift restrictions	✓	
Maintains roofline	✓	
S <sub>d</sub> Intelligent*	✓	
Uses unventilated air gaps to boost thermal performance	✓	✓
Wraps around awkward junctions	✓	✓
Saves headroom		✓
Airtight	✓	✓
Integrated tape	✓	
Lightweight	✓	✓
Easy to handle	✓	✓
No protective clothing required	✓	✓
Easy to cut	✓	✓

\*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



TECHNICAL DATA	STANDARD	PROFESSIONAL	HEAVY DUTY
Width	1m, 1.5m	1m, 1.5m	1m, 1.5m
Weight	112 g/m <sup>2</sup>	130 g/m <sup>2</sup>	165 g/m <sup>2</sup>
Tensile strength, MD	285 N/50mm	305 N/50mm	420 N/50mm
Tensile strength, CD	180 N/50mm	195 N/50mm	245 N/50mm
Nail tear MD	148 N	197 N	294 N
Nail tear CD	198 N	134 N	224 N
Water vapour resistance	0.21 MNs/g	0.19 MNs/g	0.21 MNs/g
MVTR	>1500 g/(m <sup>2</sup> 24hr)	>1500 g/(m <sup>2</sup> 24hr)	>1500 g/(m <sup>2</sup> 24hr)
Hydrostatic head	>200 cm H <sub>2</sub> O	>200 cm H <sub>2</sub> O	>200 cm H <sub>2</sub> O
Colour	Black	Black	Black



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