TLX™ CHROME

12MM FOIL INSULATION

GREAT VALUE, SIMPLE TO FIT

MADE IN BRITAIN

TLX Chrome is a 12mm thick flexible insulation that is installed on the inside of a building. TLX Chrome provides an excellent vapour barrier, and generates very high levels of air tightness by covering up cracks and holes in the building fabric. The product can be used in both roofs and walls, and is particularly suited to refurbishment of existing buildings. It is clean, quick and easy to install.

The product is fully tested to latest British and European standards. All the solutions shown have guaranteed U values and give no risk of condensation.

Building Control

Approved Document L1B requires pitched roofs that are refurbished, or newly built as part of an extension to achieve a U value of 0.18 W/m2.K, and similarly for walls to achieve a U value of 0.28 W/m2.K. TLX Chrome can be used in a range of structures that meet these requirements. On an individual basis, it may not be practically or economically feasible to reach these targets, in which case a higher U value might be accepted.

TLX Chrome measured performance data		
Emissivity	0.02	EN15976
Fire	Class E	EN11925-1
Vapour resistance	400 MNs/g	EN 12572
R value of core	0.35 m2.K/W	BS EN 16012
R value of core + 2 air layers	1.30 m2.K/W (roof)	BS EN 6946
	1.85 W/m2.K (wall)	BS EN 6946
Thickness	12mm	
Roll size	Width 1.2m	Length 12.5m

TLX™ THERMAL HOTLINE 01204 674730

We've got the answers... just ask

TRUST MARK Government Endorsed Standards www.trustmark.org.uk associate member

NFRC THE NATIONAL FEDERATION OF ROOFING CONTRACTORS LIMITED

riba product selector

NBSPlus

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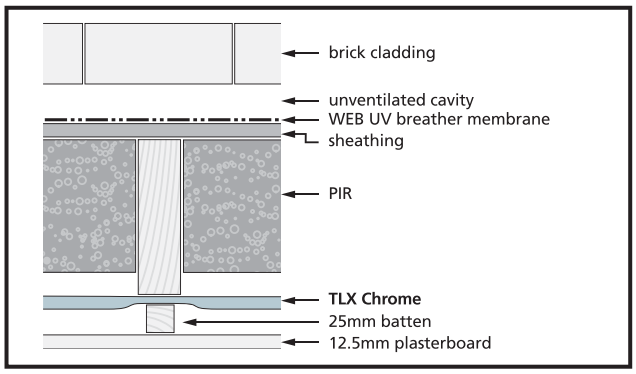
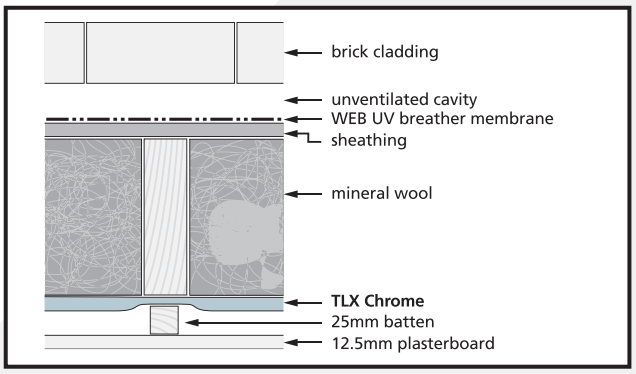
www.tlxchrome.co.uk

Timber Frame Wall

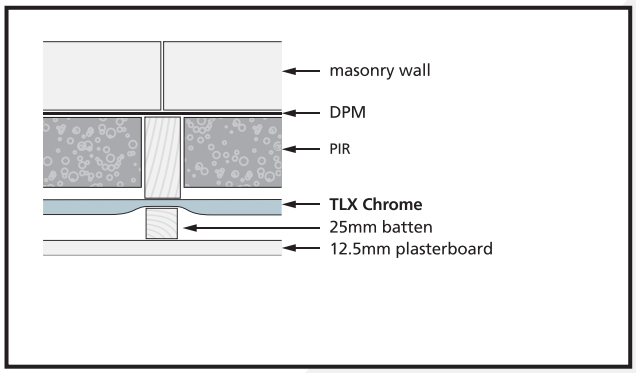


- 89mm Stud – TLX Chrome + 70mm PIR = U 0.25 W/m2.K
- 140mm Stud – TLX Chrome + 120mm PIR = U 0.18 W/m2.K
- 184mm Stud – TLX Chrome + 160mm PIR = U 0.15 W/m2.K



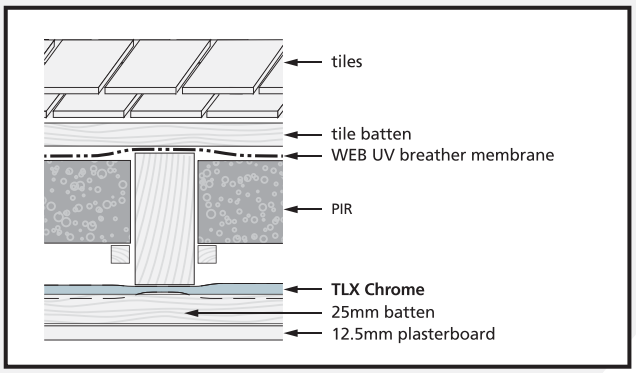
- 140mm Stud – TLX Chrome + 0.035 Mineral Wool = U 0.18 W/m2.K
- 184mm Stud – TLX Chrome + 0.035 Mineral Wool = U 0.19 W/m2.K

Solid Masonry Wall



- 25mm stud – TLX Chrome = U 0.49 W/m2.K
- 50mm stud – TLX Chrome + 25mm PIR = U 0.35 W/m2.K
- 65mm stud – TLX Chrome + 45mm PIR = U 0.28 W/m2.K

Loft Conversion



- 100mm Rafter – TLX Chrome + 55mm PIR = U 0.25 W/m2.K
- 150mm Rafter – TLX Chrome + 90mm PIR = U 0.18 W/m2.K

GENERAL INSTRUCTIONS

- Protective clothing is not required when handling TLX Chrome.
- TLX Chrome can be installed either way up.
- Bare electrical wiring must not be allowed in contact with TLX Chrome. PVC coated electrical wiring to normal domestic items such as light fittings may come into contact with TLX Chrome.
- If electrical cables are surrounded by insulation they may need to be de-rated and guidance should be sought from a qualified electrician.

INSTALLATION BELOW RAFTERS

- The left hand side of TLX Chrome is fixed in place with staples or nails of at least 14mm, and the TLX Chrome rolled across the rafters as tightly as possible. The product is installed horizontally, either from ridge to eaves or from eaves to ridge.
- Each layer of TLX Chrome must overlap the previous layer by 50mm, and the overlap should be taped to give an airtight seal.
- TLX Chrome is permanently held in place by battens and plasterboard is fitted. The battens should be the correct size and spacing to support the plasterboard chosen.
- Standard plasterboard can be used - foil-backed plasterboard is not required.
- 12.5mm plasterboard provides 30 minutes fire protection to the roof. Where the plasterboard is penetrated by downlighters or flues, there must be adequate fire protection around the penetration. This may take the form of boxes or hoods.

CUTTING

- The easiest way to cut TLX Chrome is with a pair of sharp carpet fitters scissors. It can also be cut using a sharp knife with the TLX Chrome resting on a board.
- Pieces which have been cut should be stapled and battened as soon as possible, and should not be left unsecured overnight.
- Small pieces (such as around Velux windows or in dormer cheeks) should be taped in place, stapled and battened immediately.
- Any small tears or holes should be repaired with tape.

TAPING

- Where TLX Chrome requires taping, Unibond Power tape has been found to give satisfactory adhesion. If not available, other tapes are suitable provided they adhere strongly to TLX Chrome.

AIR LAYERS

- Unventilated air layers form an important part of the TLX Chrome system. If the air spaces are omitted, whilst there is no danger of condensation, the overall thermal performance of the structure will decrease, and the U value will be higher. Additional insulation may be needed to achieve the desired U value for the roof.
- The ideal depth of an unventilated air layer in the TLX system is 15-20mm.

ADDITIONAL INSULATION

- Install additional insulation according to the manufacturer's instructions.
- Provide for air gaps between TLX Chrome and additional insulation as required.

STORAGE

- TLX Chrome rolls must be stored on a dry flat surface, protected from the weather and direct sunlight.
- Make sure when installing TLX Chrome that it does not come into contact with heat sources above 80°C.

VAPOUR CONTROL AND VENTILATION

- A vapour control layer is not required for any of the recommended solutions with TLX Chrome below rafter or inside wall studs.
- A well-sealed ceiling is essential to prevent large amounts of water vapour from entering the roof space through air movement.
- Ventilation of the rafter space is not needed if a breathable roofing membrane has been used. If a non-breathable, or type 1F felt is in place, then a 50mm ventilated space below the felt is required.
- Ventilation of the space between the breather membrane and the outer roof covering is not required for air-open coverings such as clay or concrete tiles and rough natural slates. Fibre cement slates and sealed roof coverings such as metal roofs require additional ventilation of this space.
- If in any doubt about possible harmful condensation, contact Web Dynamics Ltd for guidance.

ACCESSORIES

- For information on suitable tapes, cutters and scissors please refer to www.webdynamics.co.uk or phone the thermal hotline 01204 674 730 for advice.