Xtratherm
Thin-R

Thin-R XT/TL-MF

PROPERTY	UNITS
Density (Foam Core)	32 Kg/m³
Compressive Strength	>140 kPa
Water Vapour Resistivity	>100 MNs/gm
Thermal Conductivity	0.022 W/mK
Surface Spread of Flame	Class 1*

*When laminated to plasterboard Thin-R XT/TL(MF) is deemed to be class 0 in accordance with the building regulations.

Thermal Lining Insulation

Xtratherm Thin-R Thermal Liner is a composite insulated panel of Xtratherm Polyiso (PIR) core with a foil face one side bonded to plasterboard for for mechanicaly fixing to internal walls. XT/TL-MF is designed to provide high levels of thermal insulation and dry lining in one operation for suitable masonry walls, sloped rafters and ceilings in new build and refurbishment situations.

U-value calculations to BS EN ISO:6946

WALLS (XT/TL-MF) - *Dry Lined*

	XTRATHERM THICKNESS (mm)				
WALL TYPE	25	40	50	60	70
300mm Cavity Wall Brick/Block	0.43	0.33	0.29	0.25	0.23
215mm Solid Brickwork	0.45	0.35	0.30	0.26	0.23

Contact Xtratherm Technical Support for specific U-value calculations.

Resistance 'R' Values

The resistance value of any thickness of Xtratherm PIR can be ascertained by simply dividing the thickness of the material (in metres) by it's agrément declared lambda value 0.022 W/mk. *eg 50mm – 0.050/0.022 – R2.27*

Installation Guidelines

Mechanical Fixing XT/TL-MF

Fix a pre-treated timber batten horizontally at ceiling level and another 20mm above the finished floor level.

Fix vertical battens at max 600mm centres.

Ensure battens are wide enough to offer 20mm support to all four edges of the plasterboard.

Pack battens if necessary to level the wall.

Trim all openings and service penetrations with timber battens.

Insulation should be cut back to accommodate an adjoining panel at external corners.

Lift the XT/TL-MF Thermal Liner into position using wedges on the floor.

Screws should be fixed to the timber batten at 150mm centres, at least 12mm in from the board edge. The fixings should penetrate at least 25mm into the batten.

Installation must be in accordance with good dry lining practice. BS 8212:1988 should be considered, careful setting out and planning is essential, fill any gaps with foam filler.

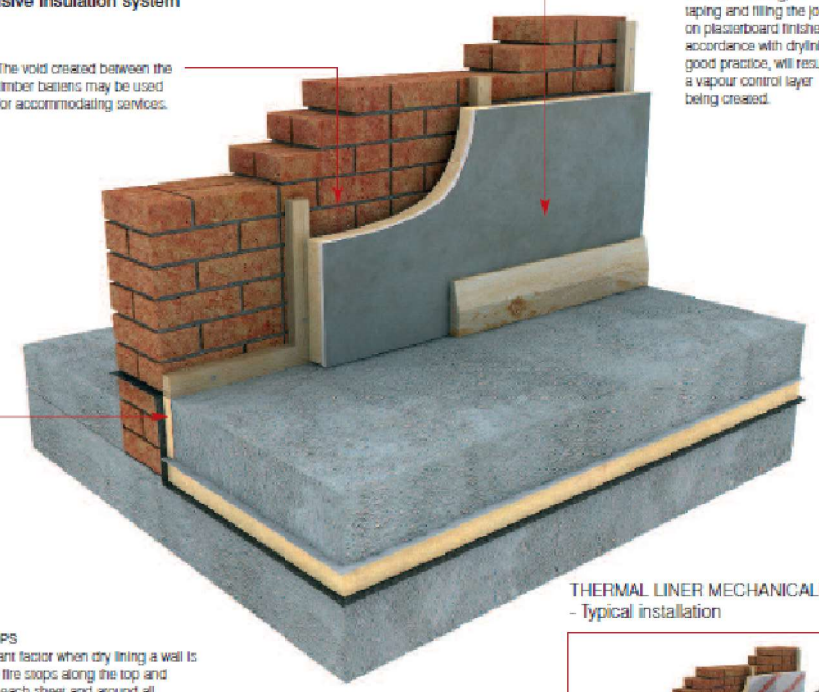
Accredited details should be followed to ensure that calculated performance is achieved.

Thermal Lining

High Thermal Performance
Drylining & Insulation in one fix
Shorter drying time
Responsive insulation system

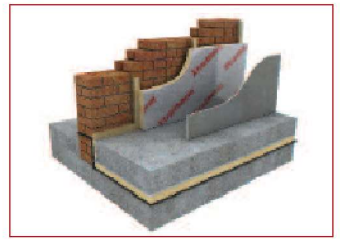
The facing on Xratherm boards provide a gas and vapour tight barrier, taping the joints between the aluminium facing, or taping and filling the joints on plasterboard finishes in accordance with drylining good practice, will result in a vapour control layer being created.

The void created between the timber battens may be used for accommodating services.



FIRE STOPS
An important factor when dry lining a wall is to provide fire stops along the top and bottom of each sheet and around all openings (Doors & Windows etc). These are provided by the timber battens and prevent fire, penetrating behind the insulation layer, it also helps to prevent thermal looping.

THERMAL LINER MECHANICALLY FIXED
- Typical installation



Specification Clause

The insulated dry lining wall insulation shall be Xratherm Thin-R XT/TL-MF, 12.5mm plasterboard bonded to _ _ _mm CFC/HCFC free rigid Polyisocyanurate core between low emissivity foil faces manufactured to EN ISO 9001:2000 by Xratherm. The insulated dry lining plasterboard XT/TL-MF shall be mechanically fixed to battens, or proprietary sytem in accordance with instructions issued by Xratherm.
Refer to NBS clause K10 205.

THIN-R SHEET SIZE — Ireland

DIMENSIONS	SIZE (mm)
Length	2400
Width	1200
Thickness*	
Plasterboard 9.5mm +	25/40/50
Plasterboard 12.5mm +	25/30/40/50/60/70/80/90

*Other sizes available subject to quantity and lead time.
Note: Standard product supplied Ireland - tapered edge

INSULATION TO BE 80MM THICK

TITLE	PROPOSED DRAWINGS	ADDRESS	FLAT 10, CHURCH STUDIOS, 49-51 CAMDEN PARK ROAD LONDON NW1
CLIENT	RAINBOW PROPERTIES LTD	SCALE 1:100 @ A3	DATE MAY 2019
		DRAWING NO. 190510/12	REV.

URBAN REGEN LONDON Ltd.
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