

Product Data Sheet

HYTHERM LI (rendered XPS insulation) Insulation for Inverted Roofs

Extruded polystyrene insulation board with integral 6mm thick mortar topping for use on parapets and upstands

Axter Hytherm LI rendered XPS is a lightweight insulation board comprising a 50mm thick extruded polystyrene (XPS) layer and a 6mm thick fibre cement flat sheet that has already been applied to the boards.

Hytherm LI is designed to be installed on parapets and upstands and helps to prevent thermal bridging on flat roof constructions. It can be used alongside Hytherm ECO XPS insulation for inverted roofs which is covered by EPD-EXI-20190112-IBE1-EN.

Key benefits

- Easy and quick to install.
- Excellent thermal insulation capability.
- Negligible moisture uptake.
- Low susceptibility to rot.
- Resistant to high loads and shrinkage.
- Exceptionally stable, retaining initial insulation performance and physical integrity in exposed conditions over the long term.
- Manufactured in accordance with BS EN 13164 and ISO 14001.

- Frost resistant.
- BBA Certified.
- GWP (Global Warming Potential) = <5.
- ODP (Ozone Depletion Potential) = Zero.

Hytherm LI Rendered XPS – Technical Data

Property	Standard	Unit*	EN code	Value
Thermal Conductivity				
Declared Thermal conductivity	BS EN 13164	W/m.K	λ_D	0.030 <60mm
Dimensions				
Length	BS EN 822	mm	l x w	1200
Width	BS EN 822	mm		600
Thickness	BS EN 823	mm		50mm Hytherm LI + 6mm mortar
Tolerances				
Length	BS EN 822	mm	T3	-6/+6
Width	BS EN 822	mm		-3/+3
Thickness	BS EN 823	mm		-0.5/+0/5
Mechanical Properties				
Compressive strength or compressive stress at 10% deformation	BS EN 826	kPa	CS(10\Y)	300
Hygrometric properties				
Long term water absorption by immersion	BS EN 12087	%	WL(T)	1.5

Property	Standard	Unit*	EN code	Value
Water vapour diffusion resistance factor μ (tabulated value)	EN ISO 12086	-	MU	-
Dimensional stability under specified temperature (70°C) and humidity (90%rh)	BS EN 1604	%	DS(70,90)	<5
Other properties				
Fire performance	BS EN 13501-1	-	Euroclass	E
Coefficient of linear thermal expansion (typical value)	-	mm/m.K	-	0.07
Temperature limits	-	°C	-	-50 / +75
Edge profile	-	-	-	Butt edge
DESIGNATION CODE: XPS - EN 13164 - T3 - CS(10\Y)300 - DS(70,90) - WL(T)1,5 - TR200				
Surface	-	-	-	6mm fibre cement flat sheet
Tolerances	Thickness Width Length	-	mm	-0/+0.6 +0/-2 +0/-2
Fire performance	EN 13501-1	Euroclass	-	A1

*N/mm² = 10³

kPa = 1MPa

Material to be stored inside in original packaging, away from direct sunlight or heat sources.

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