

# 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

Resistant to high loads and shrinkage

Manufactured in accordance with BS EN 13164 and ISO 14001

Frost resistant

GWP (Global Warming Potential) = <5

ODP (Ozone Depletion Potential) = zero

Can be used in conjunction with Hytherm ECO XPS which is covered by EPD-EXI-20190112-IBE1-EN.

## HYTHERM LI RENDERED XPS – Technical Characteristics

Properties(1)	Standard	Unit	Value	CE code	
Declared Thermal conductivity	BS EN 13164	W/mK	0.030 <60mm	λD	
Compressive stress or compressive strength at 10% deformation	BS EN 826	kPa	300	CS(10\Y)	
Tensile strength	EN 1607	kPa	300	TR	
Water vapour diffusion resistance factor μ (tabulated value)	EN 12086			MU	
Long term water absorption by total immersion	EN 12087	%	1.5	WL(T)	
Dimensional stability under specified temperature (70°C) and humidity (90%rh)	BS EN 1604	%	<5	DS (70,90)	
Coefficient of linear thermal expansion (typical value)		mm/(m.K)	0.07		
Fire performance	BS EN 13501-1	Euroclass	E		
Temperature limits		°C	-50/+75		
Tolerances	Thickness	EN 823	mm	-0.5/+0/5	T3
	Width	EN 822	mm	-3/+3	
	Length	EN 822	mm	-6/+6	
Length x width	BS EN 822	mm	1200 x 600	l x b	

Properties(1)	Standard	Unit	Value	CE code
Thickness	BS EN 823	mm	50mm Hytherm LI + 6mm mortar	
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	mm	-0/+0.6	
	Width	mm	+0/-2	
	Length	mm	+0/-2	
Fire performance	EN 13501-1	Euroclass	A1	

1 N/mm<sup>2</sup> = 10<sup>3</sup> kPa = 1MPa

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

For further information, contact Axter Ltd.

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