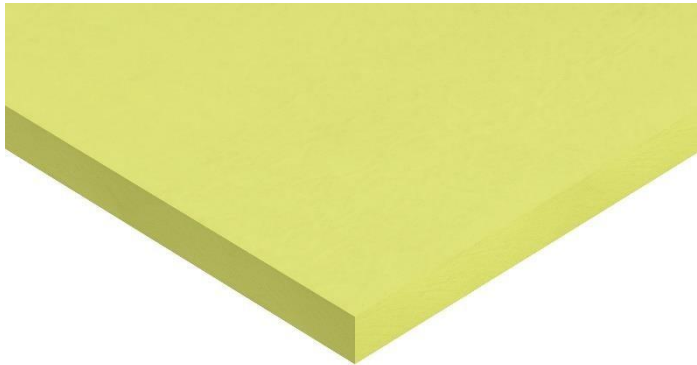


PRODUCT DATA SHEET

Bauder XPS (300) Inverted Insulation

An environmentally friendly, high performance rigid extruded polystyrene (XPS) insulation, which is very lightweight. The product is rebated on all four sides to ensure thermal continuity. It has Zero ODP, with a Global warming potential less than 5Kg CO₂.



Intended Use

This product is for use with inverted (protected membrane) roof constructions and can be laid directly onto Bauder Hot Melt and Reinforced Bitumen Membrane Waterproofing Membranes. Contact Bauder for advice relating to other membrane types.

Use in conjunction with **Bauder XPS Upstand Insulation** to exposed vertical upstands prior to installing paving, decking, ballast or green roof.

For a comprehensive NBS J31 Specification contact Bauder Technical.

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE		
Characteristic	Unit	Value
Dimensions		
Width	mm	600 rebated edge
Length	mm	1250 rebated edge
Coverage	m ²	0.75
Thickness	mm	30, 40, 50, 60, 80, 100, 120, 150, 180
Weight	kg/m ³	30
Thermal Conductivity		
Declared thermal conductivity	W/mK	0.034
Design thermal conductivity	W/mK	0.036
Mechanical Properties		
Compressive strength at 10% compression	kPa	300
Compressive creep	N/mm ²	Q3 2020
Moisture Properties		
Long term water absorption by immersion to BS EN 12087		≤2%
Long Term Water absorption by diffusion to BS EN 12088		≤2%

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Fire Properties		
Reaction to Fire - Classification to BS EN 13501-1	Euroclass F	
External Fire Performance to ENV1187 Test 4		Designated Broof(t4) (low vulnerability in Scotland) which is without restriction when used within a ballasted inverted roof construction as described in European Commission Directive 200/553/EC
SURFACE FINISH		
Top:	Un-faced	
Bottom:	Un-faced	
Colour:	Green	

CERTIFICATION AND ENVIRONMENTAL INFORMATION	
BBA Certificate	Pending
International Standards Organisation (ISO)	ISO 9001:2015 Quality Management Certificates No 388-3QMS ISO 14001:2015 Environmental Management Certificates No 388-3EMS ISO 180001:2007 Health & Safety Management Certificates No 388-3HS
Ozone depletion potential (ODP)	Zero
Global Warming Potential (GWP)	<5 kg CO ₂ Eq./kg
Recyclability	100%

INSTALLATION GUIDANCE
<ol style="list-style-type: none"> Bauder XPS (300) Inverted Insulation is installed loose laid over the weatherproofing, ensuring all overlap joints are tightly butted together. Boards are laid in a staggered pattern starting from the point of access to the roof, when using a second layer stagger joints of insulation from first layer. Top layer must be a minimum of 100mm in depth. Only install amount of Bauder XPS (300) Inverted Insulation that can be ballasted, paved or green roof installed in the same day. Bauder XPS (300) Inverted Insulation should always have a Bauder WFRL Membrane loose laid to its upper surface. Bauder WFRL Membrane is loose laid over the insulation running across the fall of the roof with 300mm overlaps. The membrane is turned up at all roof penetrations and upstands to a height to ensure it finishes above the top level of the ballast or paving. Upstands can be finished using Bauder XPS Upstand Insulation (fixing depends on height of upstand) to reduce the risk of cold bridging. The top of the Bauder XPS Upstand Insulation must be a maximum 150mm above the top level of the surface finish.

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STORAGE & HANDLING

- **Bauder XPS (300) Inverted Insulation** boards are shrink wrapped in polythene and delivered to site on pallets. Each pack shows the manufacturer's name, grade, type marking.
- Boards must be protected from prolonged exposure to sunlight and should be stored under cover or protected with light-coloured opaque polythene sheets.
- Boards must be stored flat, off the ground, on a clean, level surface and under cover to protect them from high winds.
- Care must be taken to avoid contact with solvents and materials containing organic components.
- Boards contain a flame-retardant additive to inhibit accidental ignition from small fire sources, it is combustible and should not be exposed to open flame or other ignition sources.
- Damaged boards must not be used.

Bauder reserves the right to amend information and product specifications without prior notice. All reasonable care has been taken to ensure that all data is current at the time of print, however because Bauder pursues a policy of constant development we recommend ensuring that your copy of this information is current by contacting our Technical Department at technical@bauder.co.uk

Recommendations for use should be verified as to the suitability and compliance with actual requirements, specifications, installation techniques and any applicable laws and regulations.

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