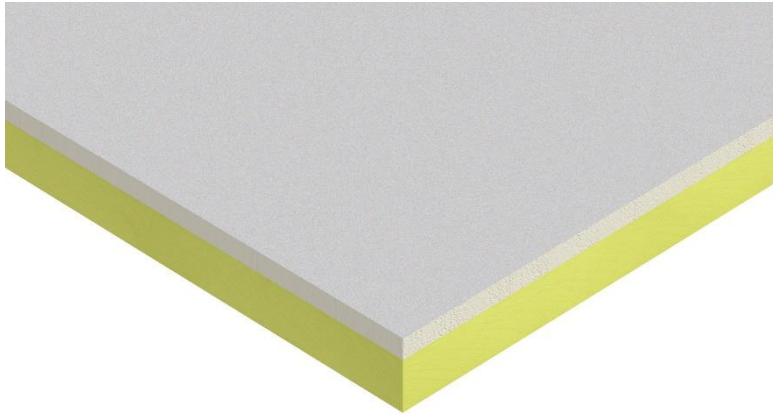


PRODUCT DATA SHEET

Bauder XPS Uprand Insulation

An environmentally friendly, high performance, rigid extruded polystyrene (XPS) insulation, with a fibre cement board laminated on one side.

**Intended Use**

This product is specifically for use at upstands where **Bauder XPS (300) Inverted Insulation** is used on the main flat area. **Bauder XPS Uprand Insulation** consists of 50mm laminated XPS insulation and a 6mm thick grey weather resistant fibre cement facing. The insulation facing provides impact resistance as well as UV protection to the extruded polystyrene core.

Designed for low level vertical installation at wall junctions to reduce thermal bridging.

For a comprehensive NBS J31 Specification contact Bauder Technical.

Current interpretation of upstand insulation requirements for "Relevant Buildings" are:

1. If the insulation is a thermal break and finishes not more than 150mm above the finished roof level, then it is exempt from the ban. **Bauder XPS (300) Uprand Insulation** or **BauderROCK NC 56mm Uprand Insulation** are applicable.
2. If the insulation is taken up further above 150mm against a habited wall, then it is required to be Class A Uprand Board such as **BauderROCK NC 56mm Uprand Insulation**.
3. If upstand insulation is used against a parapet where it will extend beyond 150mm above the finished roof level, or the 300mm minimum requirement for a thermal break, but not greater than 1100mm, it is required to be a Class A Uprand Board such as **BauderROCK NC 56mm Uprand Insulation**. Exceeding the thermal break requirement with an upstand board should be questioned as to why it is needed.

The above guidance was appropriate at the time of writing but is often open to interpretation and therefore should always be confirmed by the Building Control officer for the project.

UNITED KINGDOM

Bauder Ltd
70 Landseer Road, Ipswich, Suffolk IP3 0DH
T: +44 (0)1473 257671 E: info@bauder.co.uk
bauder.co.uk

IRELAND

Bauder Ltd
O'Duffy Centre, Carrickmacross, Co. Monaghan
T: +353 (0)42 9692 333 E: info@bauder.ie
bauder.ie

PRODUCT DATA SHEET

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE			
Characteristic	Test method	Unit	Value
Length		mm	1200
Width		mm	600
Thickness		mm	50mm insulation + 6mm Mortar layer
Weight (m2)		kg	10.25
Declared Performance			
Facing: Fibre-cement board			
Colour			Grey
Thickness - nominal		mm	6
Thermal Conductivity		W/mK	0.47
Flexural Strength (ave Parallel & Transverse)		MPa	18 (average)
Insulation			
Colour			Yellow
Thickness		mm	50
Compressive Strength	BS EN 826	kPa	300
Thermal Conductivity	BS EN 13162	W/mK	0.034
Nominal Density - XPS only	BS EN 1602	Kg/m3	30
Water Absorption by Immersion	ATSM E136		NPD
Fire Performance	BS EN 13501-1	Euroclass E	

CERTIFICATION AND ENVIRONMENTAL INFORMATION	
BBA Certificate	Pending
International Standards Organisation (ISO)	ISO 9001:2015 Quality Management Certificate No 388-3QMS ISO 14001:2015 Environmental Management Certificate No 388-3EMS ISO 180001:2007 Health & Safety Management Certificates No 388-3HS
BRE Green Guide generic product rating	A+
Ozone depletion potential (ODP)	0
Global warming potential (GWP)	<5

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INSTALLATION GUIDANCE

The **Bauder XPS Upstand Insulation board** is designed to be used with Bauder XPS Inverted Roof Insulation.

Bauder XPS Upstand Insulation is supplied as a 1200 x 600mm board and can be used either way up or cut to size as required.

When installed, provided that the top surface is protected by an appropriate coping, cill or cover flashing, **Bauder XPS Upstand Insulation** is suitable for long term exposure – for example when used in conjunction with an inverted roof system.

Generally, the upstand insulation should be installed first, so it can be wedged in position at the base by the boards subsequently applied to the flat areas.

However, if there are two layers (multi layers) of insulation to the horizontal field areas, the bottom layer(s) of insulation can sit at deck level and the upstand board can be installed on top and then wedged into position using the uppermost layer (minimum thickness 100mm) of the insulation to the field area.

Low Level Installations**Up to 150mm above the ballast**

Bauder XPS Upstand Boards require no additional restraint up to 150mm above the surfacing. Upstand Boards are pinned and restrained by the (Bauder XPS (300) Inverted Insulation. Contact Bauder Technical or refer to Bauder J31 NBS project specific specification.

High Level Installations Mechanical Fixing – Installations exceeding 150mm above the ballast*, **

Mechanical fixings should be stainless steel or galvanised steel with appropriate pressure plate washers (minimum 40mm diameter). Fixing type, material, grade, diameter, length, number and position etc. should be specified to suit substructure and site conditions. Alternatively, boards can be tightly clipped continuously on top edge with a minimum continuous cover depth of 75mm.

Boards should be pre-drilled with over-sized holes relevant to fibre cement board, (at least 2mm oversize), to allow for expansion. Fixings should typically be positioned across the top edge of the board at maximum 300mm centres, minimum 40mm from the corners of the board and 40mm in from the top edge to avoid damage to the board finish.

Additionally, one horizontal strip of suitable PU adhesive should be used at mid-point of the exposed board area if exposed area is greater than 750mm above the surfacing finish.

* Where appropriate, Upstand Board heights to be maximum of one board, longest length.

**Not an option for Approved Document B defined "Relevant Buildings"

Mechanical fixings are only allowed in the areas described in this document.

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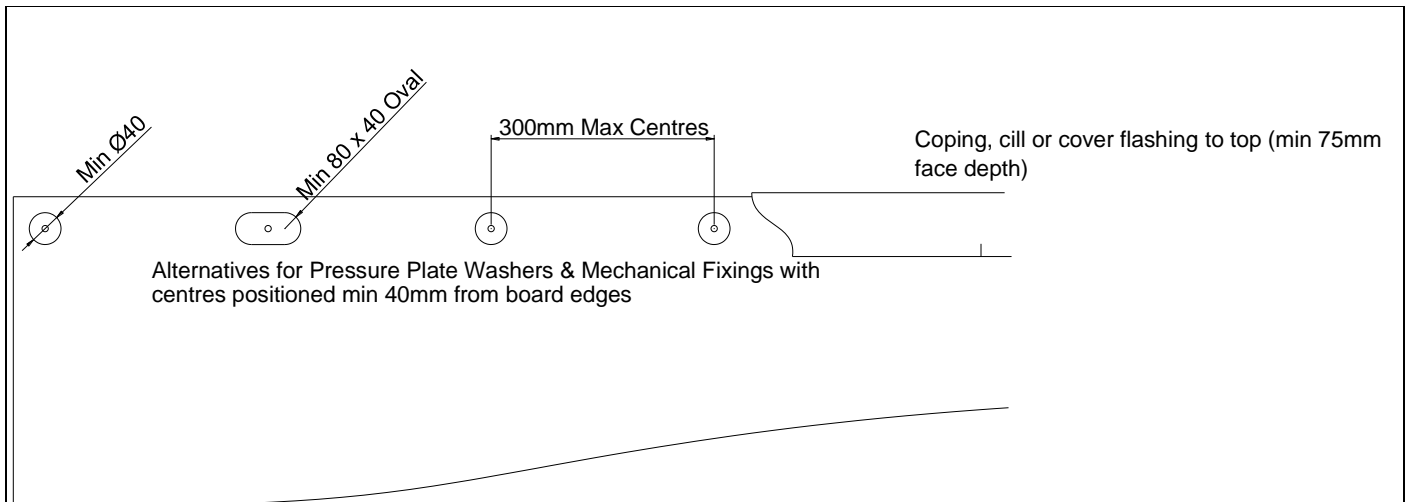
T: +44 (0)1473 257671 E: info@bauder.co.ukbauder.co.uk**IRELAND**

Bauder Ltd

O'Duffy Centre, Carrickmacross, Co. Monaghan

T: +353 (0)42 9692 333 E: info@bauder.iebauder.ie

PRODUCT DATA SHEET



Fixing Alternatives – Installation ** not appropriate for an option for approved document B “Defined Relevant” building	Low level Installation	High Level Installation defined “Relevant Buildings” **
Base of board pinned in place by the horizontal inverted roof insulation (by minimum 100mm)	✓	✓
Board edges must be tightly butted vertically	✓	✓
Board adhered to the vertical waterproofing detail with suitable adhesive in situations described in this document.		✓
Top edge of board mechanically fixed		✓
Board centre is adhered to the vertical detail with suitable adhesive. Mechanical fixings are only allowed in the areas described in this document.		✓
Top edge of board is fixed and protected by a minimum of 75mm by an appropriate coping, cill or cover flashing (by others)	✓	✓

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Cutting & Drilling

When cutting and drilling **Bauder XPS Upstand Insulation**, it may be cut by hand or with an appropriate power tool.

XPS insulation - When cutting by hand, it can easily be cut with a long-bladed knife or insulation saw available from DIY/Builders Merchant outlets. Please ensure the correct PPE is worn when using or cutting insulation.

Fibre Cement particle topped boards - When cutting, use relevant power tools such as a disc cutter, jig saw or angle grinders using a diamond tipped blade. Please ensure the correct PPE is worn when using or cutting cement particle board.

Holes required in fibre cement particle board should be drilled with standard masonry bits.

Health and Safety Information

PPE should include safety goggles to protect against dust / projectile material, gloves to protect against possible sharp edges on the laminate board and a suitable dust mask to protect against dust inhalation. The mechanical effect of coarse fibres/fine dust particles in contact with throat, skin or eyes may cause temporary inconvenience.

Bauder XPS Upstand Insulation is recyclable.

Off-cuts need to be disposed via an authorised disposal contractor to an approved waste disposal site, observing all relevant regulations.

Please ensure all installation specifications meet any associated Building and Fire Regulation requirements.

STORAGE & HANDLING

- **Bauder XPS Upstand Insulation** are shrink wrapped in polythene with cardboard and delivered to site on pallets. Each pack shows the manufacturer's name, grade, type marking.
- Boards must be stored flat, off the ground, on a clean, level surface and under cover to protect them from high winds.
- 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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