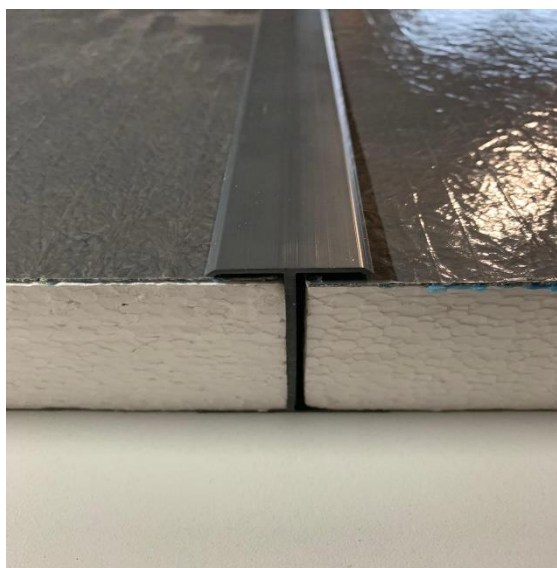


PRODUCT DATA SHEET

Bauder JFRI Upstand Board

An environmentally friendly, high performance, rigid expanded polystyrene (EPS) insulation, with a GRP facing laminated on one side.

This product is specifically for use at upstands where **Bauder JFRI Inverted Insulation** is used on the main flat area. **Bauder JFRI Upstand Board** is a laminated EPS insulation with a 1.15mm thick slate grey weather resistant GRP facing. The attractive insulation facing provides impact resistance as well as UV protection to the expanded polystyrene core.

**Intended Use**

Designed for low level vertical installation at wall junctions to reduce thermal bridging. Used in conjunction with **Bauder JFRI Upstand Joint Cover Trim**.

Bauder JFRI Upstand Board should be ordered with the relevant number of **1.2m length of Bauder JFRI Upstand Joint Cover Trim**.

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 JFRI Upstand Board, BauderROCK NC 56mm Upstand Insulation** and **BauderGLAS Inverted Upstand 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 Upstand Board such as **BauderROCK NC 56mm Upstand Insulation** and **BauderGLAS Inverted Upstand 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 Upstand Board such as **BauderROCK NC 56mm Upstand 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.

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PRODUCT DATA SHEET

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE		
Characteristic	Unit	Value
Width	mm	1200
Length	mm	1200
Coverage	m ²	1.44
Impact strength of 1.15mm GRP Facing	Joules	530
Flexural strength	N/mm ²	180
Thermal Conductivity		
Declared thermal conductivity	W/mK	0.038
Design Thermal Conductivity	W/mK	Not Required
Fire Properties		
Reaction to Fire-Classification to BS EN 13501-1 - EPS	Euroclass E	
Reaction to Fire-Classification to BS EN 13501-1 - GRP	Euroclass B	

Thickness (mm)	Approx. weight per board (kg)	Thermal resistance (m ² K/W)
60 (+1.15mm facing)	4.3	1.55

SURFACE FINISH	
Top:	1.15mm GRP – Slate grey
Bottom:	Un-faced - White

CERTIFICATION AND ENVIRONMENTAL INFORMATION	
International Standards Organisation (ISO)	ISO 9001:2015 Quality Management Certificates GB 2005746 (UK) ISO 14001:2015 Environmental Management Certificates EM 2001097 (UK)
BRE Green Guide generic product rating	A+ (www.bre.co.uk/greenguide element number 815320025)
Ozone depletion potential (ODP)	Zero
Global Warming Potential (GWP)	<5 kg CO ₂ Eq./kg
Recyclability	100% (excl GRP)

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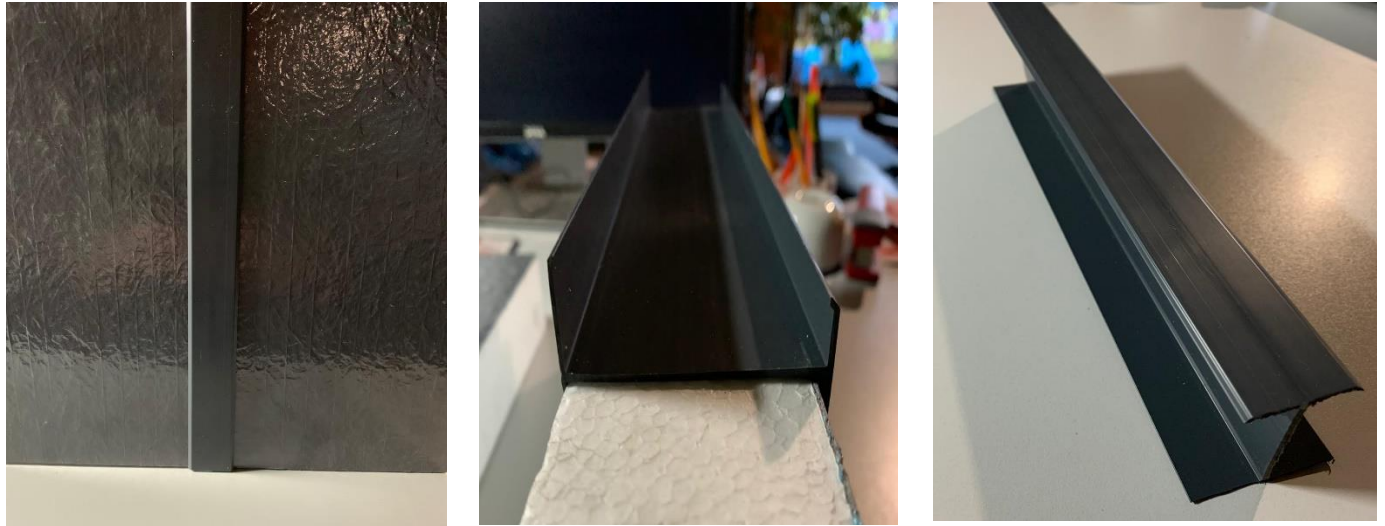
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PRODUCT DATA SHEET

Bauder JFRI Upstand Joint Cover Trim

This product is specifically for use with **Bauder JFRI Upstand Board**. It has been designed as a quick fit cover strip that requires no adhesives or special tooling. Relevant number of **Bauder JFRI Joint Cover Trims** should be ordered with each **Bauder JFRI Upstand Board** .



PRODUCT INFORMATION AND TECHNICAL PERFORMANCE		
Characteristic	Unit	Value
Length	mm	1200
Width (Front Face)	mm	30
Width (Rear Face)	mm	48
Leg	mm	60
Colour		Slate Grey

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PRODUCT DATA SHEET

INSTALLATION GUIDANCE

The Bauder JFRI Upstand Board is designed to be used with the Bauder JFRI Upstand Joint Cover Trim and Bauder JFRI Inverted Roof Insulation.

Bauder JFRI Upstand Board should be used with the **Bauder JFRI Upstand Joint Cover Trim**. **Bauder JFRI Upstand Board** is supplied pre-finished with a 1.15mm slate grey weather and impact resistant facing board. Boards and cover trims may be cut to suit on site prior to installation if required.

Bauder JFRI Upstand Board is supplied with a square edge on all sides of the board. Boards must be positioned vertically.

During installation the expanded polystyrene (EPS) vertical board edges must be tightly butted together either side of the **Bauder JFRI Upstand Joint Cover Trim**.

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 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**Adhesive Fixings – up to 150mm above the ballast**

PU based adhesives compatible with Expanded Polystyrene (EPS) may be used for attachment between the substrate and the **Bauder JFRI Upstand Board** in low level applications. Board fixing with PU adhesive should follow recommendations for PU bead width, bead spacing and perimeter application.

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 with 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 cover depth of 75mm.

Boards should be pre-drilled with over-sized holes, (at least 2mm oversize), to allow for expansion. Fixings should 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.

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

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

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

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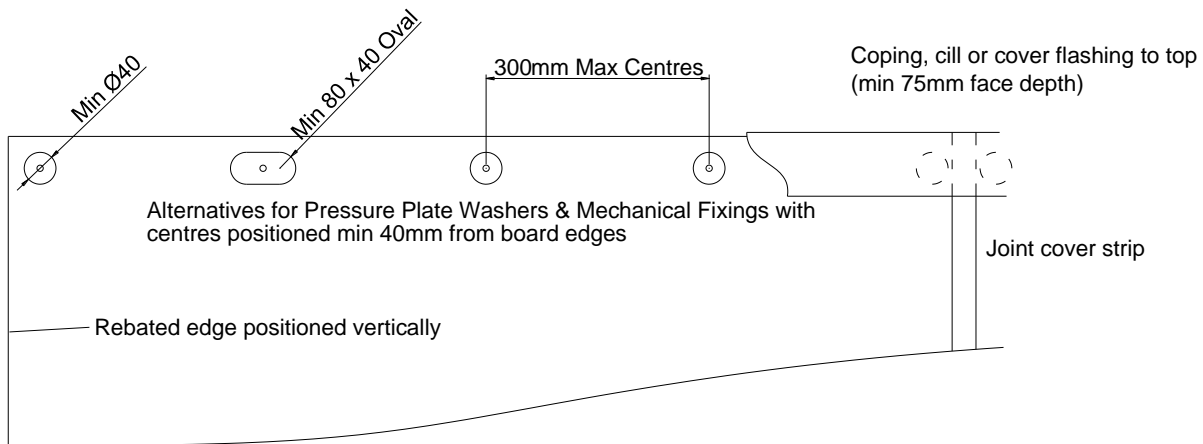
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PRODUCT DATA SHEET



Installation	Low level Installation	High Level Installation "Relevant Buildings" **
Base of board pinned in place by the horizontal inverted roof insulation (by minimum 100mm)	✓	✓
Board edges must be tightly butted into Bauder JFRI Upstand Joint Cover Trim	✓	✓
Board is adhered to the vertical 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.		✓
Bauder JFRI Upstand Joint Cover Trims are fitted	✓	✓
Top edge of board is fixed and protected by a minimum of 75mm by an appropriate coping, cill or cover flashing (by others)	✓	✓

Installation of Bauder JFRI Upstand Joint Cover Trim

Install joint cover trims as described in diagrams below. This **must** be done during the installation and cannot be retrofitted.

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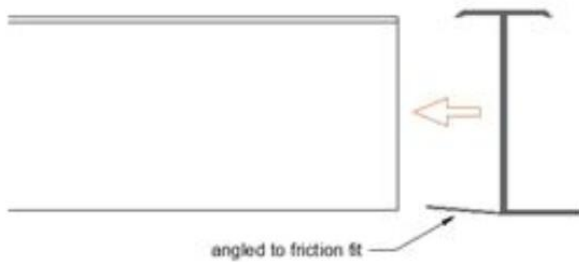
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PRODUCT DATA SHEET

Step 1

Friction fit the cover trim onto the board end
Note - one side of the cover trim base is angled enabling a light friction fit.



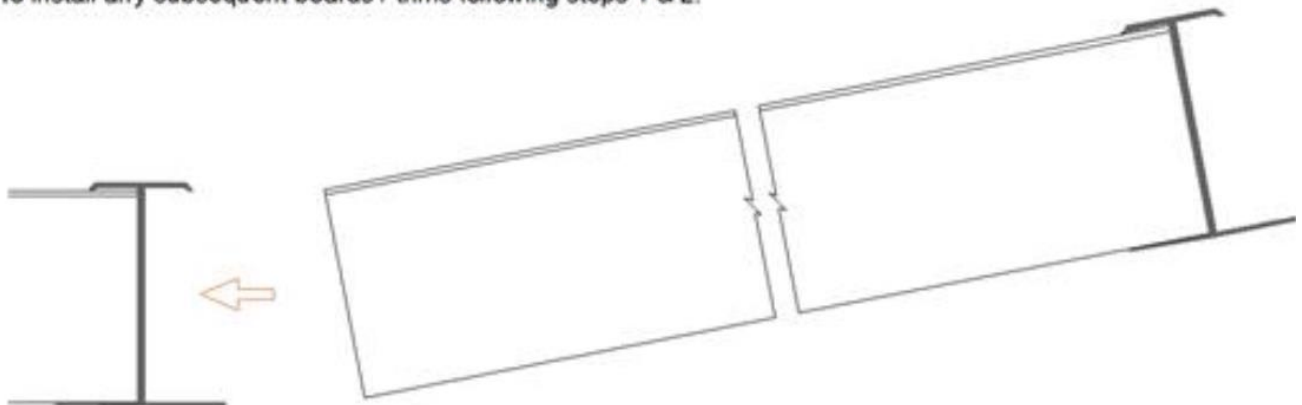
Step 2

Fix the combined upstand board and cover trim back to the substrate in line with the fitting instructions.



Step 3

Insert the next board into the pre-fitted cover trim and continue to install any subsequent boards / trims following steps 1 & 2.



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PRODUCT DATA SHEET

Cutting & Drilling Bauder JFRI Upstand Board – 1.15mm Laminate and Bauder JFRI Upstand Joint Cover Trim

Bauder JFRI Upstand Board may be cut by hand or with an appropriate power tool.

Bauder JFRI Upstand Joint Cover Trim may be cut by hand.

When cutting by hand, use a hacksaw with a tooth pitch of 1.2mm held at a shallow oblique angle to the sheet.

Recommended power tool – disc cutter with a 44 to 60 grit diamond blade, operating at approximately 280 surface m/min.

Holes should be drilled with standard metal bits.

The facing can be notched using standard metal snips after removal of the EPS taking care not to delaminate the facing.

Health and Safety Information

The use of high-speed cutting tools may generate dust. The concentration of dust should be kept as low as is reasonably practicable and certainly below the Occupational Exposure Limits, (10 mg/m³ total inhalable dust and 4 mg/m³ respirable dust – 8 hour TWA values). For work indoors or in confined spaces, adequate ventilation should be provided. For extensive operations and cutting using power/circular saws, dust extraction systems should be used.

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.

In some cases, the laminate dust can cause slight transient irritation. Should effects be prolonged, or any signs of a rash occur, obtain medical advice. All exposed skin must be thoroughly washed with soap and water. Any eye contamination must be washed out with copious amounts of pure water.

Expanded Polystyrene, (EPS), is fully recyclable, however the laminate facing is not. Off-cuts need to be disposed via an authorised disposal contractor to an approved waste disposal site, observing all relevant regulations. The laminate is not classified as hazardous, (for approved landfill sites).

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

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PRODUCT DATA SHEET

STORAGE & HANDLING

- Bauder JFRI Insulation boards are shrink wrapped in polythene and delivered to site on pallets. Each pack shows the manufacturer's name, grade, type marking, and the BBA logo incorporating the number of this Certificate.
- Bauder JFRI Upstand 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.
- Care must be taken to avoid contact with solvents and materials containing organic components.
- Boards must be stored flat, off the ground, on a clean, level surface and under cover to protect them from high winds.
- 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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