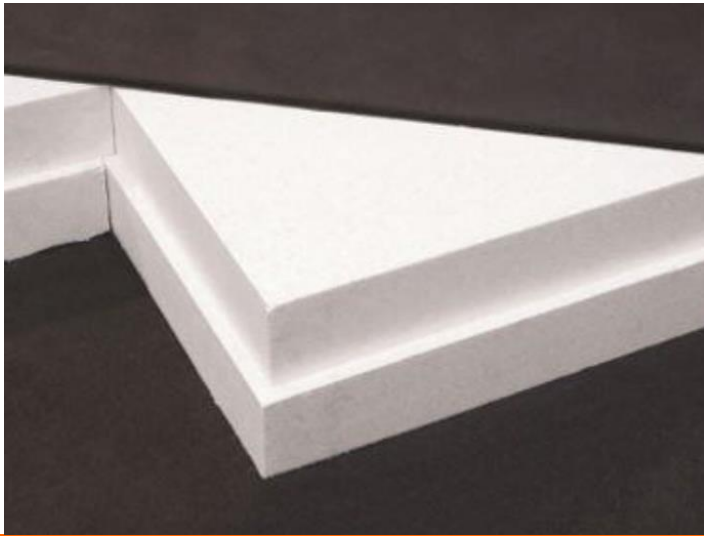


PRODUCT DATA SHEET

Bauder JFRI PREMIUM (300) Inverted Insulation

An environmentally friendly, high performance rigid expanded polystyrene (EPS) insulation with improved thermal conductivity. It is very lightweight and has a higher compressive strength than our Premium+ range. The product is rebated on all four sides to ensure thermal continuity. It is CFC and HCFC free, with a Global warming potential less than 5Kg CO₂ Eq./kg.

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



Intended Use

Use in conjunction with **Bauder JFRI WFRL Membrane** prior to installing paving, decking or ballast or Extensive, Brown, Biodiverse or Intensive Green Roofs.

Use in conjunction with **Bauder JFRI Upstand board** or **BauderROCK NC 56mm Upstand Board** to exposed vertical upstands.

For a comprehensive NBS J31 Specification contact Bauder Technical.

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE WHEN USED IN HARD LANDSCAPING

Characteristic	Unit	Value
Dimensions		
Width	mm	1215 (including 15 rebate)
Length	mm	1215 (including 15 rebate)
Coverage	M ²	1.44
Single Thickness (in 5mm increments)	mm	50 up to 240
Weight	kg/m ³	40
Thermal Conductivity		
Declared thermal conductivity	W/mK	0.033
Design thermal conductivity	W/mK	0.033
Mechanical Properties		
Design Load Compressive strength	N/mm ²	0.30 with 10% nominal compression
Design Loads for Long Term Compressive Creep	N/mm ²	0.09 with 2% compression
Moisture Properties		
Long term water absorption by immersion to BS EN 12087		≤1%
Long Term Water absorption by diffusion to BS EN 12088		≤1%
Fire Properties		
Reaction to Fire - Classification to BS EN 13501-1	Euroclass E	
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 2000/553/EC

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PRODUCT DATA SHEET

PRODUCT INFORMATION AND TECHNICAL PERFORMANCE WHEN USED IN GREEN ROOF		
Characteristic	Unit	Value
Dimensions		
Width	mm	1215 (including 15 rebate)
Length	mm	1215 (including 15 rebate)
Coverage	M2	1.44
Single Thickness 9 in 5mm increments)	mm	50 up to 240
Weight	kg/m ³	40
Thermal Conductivity		
Declared thermal conductivity	W/mK	0.033
Green Design thermal conductivity	W/mK	0.035 (Further adjustment included for green roof application)
Mechanical Properties		
Design Load Compressive strength	N/mm ²	0.30 with 10% nominal compression
Design Loads for Long Term Compressive creep	N/mm ²	0.09 with 2% compression
Moisture Properties		
Long term water absorption by immersion to BS EN 12087		≤1%
Long Term Water absorption by diffusion to BS EN 12088		≤1%
Fire Properties		
Reaction to Fire - Classification to BS EN 13501-1	Euroclass E	
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 2000/553/EC and guidance in DCLG document, Fire Performance of Green Roofs and Walls.

SURFACE FINISH	
Top:	Un-faced
Bottom:	Un-faced
Colour:	White

CERTIFICATION AND ENVIRONMENTAL INFORMATION	
KIWA Certificate	BAR-19-098-S-A-UK
International Standards Organisation (ISO)	ISO 9001:2015 Quality Management Certificates GB 2005746 ISO 14001:2015 Environmental Management Certificates EM 2001097
BRE Green Guide generic product rating	A (www.bre.co.uk/greenguide element number 1315320001)
Ozone depletion potential (ODP)	Zero
Global Warming Potential (GWP)	<5 kg CO ₂ Eq./kg
Recyclability	100%

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INSTALLATION GUIDANCE

1. **Bauder JFRI PREMIUM (300) Inverted Roof Insulation** is installed loose laid over the weatherproofing, ensuring all overlap joints are tightly butted together.
2. 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.
3. Only install amount of **Bauder JFRI PREMIUM (300) Inverted Roof Insulation** that can be ballasted, paved or green roof installed in the same day.
4. **Bauder JFRI PREMIUM (300) Inverted Roof Insulation** should always have a **Bauder JFRI WFRL Membrane** loose laid to its upper surface.
5. **Bauder JFRI 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 level of the ballast or paving.
6. Upstands can be finished using **Bauder JFRI Upstand Boards** or **BauderROCK NC 56mm Upstand Board** (fixing depends on height of upstand) to reduce the risk of cold bridging. Please refer to **Bauder JFRI Upstand Boards** or **BauderROCK NC 56mm Upstand Board** Product Data Sheets for limitations of use and fixing requirements.
7. The **Bauder JFRI Upstand Boards** utilise **Bauder JFRI Joint Cover Trims** which must be installed to all vertical edges of the **Bauder JFRI Upstand Boards** to prevent weathering of the EPS.

STORAGE & HANDLING

- **Bauder JFRI PREMIUM (300) Inverted Roof Insulation** are shrink wrapped in polythene and delivered to site on pallets. Each pack shows the manufacturer's name, grade, type marking, and the KIWA logo incorporating the number of this Certificate.
- 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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