

# BAUDER JFRI INSULATION

## The Eco-Friendly Inverted Roof Insulation

Inverted roofs have traditionally been insulated with extruded polystyrene (XPS) due to its low moisture absorption, high compressive strength and lightweight characteristics. However, there is now a more eco-friendly alternative based on innovative expanded polystyrene (EPS) technology.

BauderJFRI Insulation is manufactured in a factory with ISO 9001 and ISO 14001 certification, where all raw materials are responsibly sourced.

It has a low environmental impact with zero ozone depletion potential (ODP), a global warming potential of <5 and a generic Green Guide rating of A or A+. This helps to achieve valuable credits in projects subject to BREEAM assessments.

## Key Features

- Environmentally friendly.
- Lightweight.
- 1200 x 1200 mm insulation board allows fast installation time.
- Single layer installation up to 250 mm.
- 15 mm rebated boards to reduce thermal bridging and risk of wind uplift whilst installing.
- Shape-moulded to ensure a perfect fitting board every time.

## Product Variants

Two versions of this product are available:

- BauderJFRI (200) is suitable for standard inverted flat roofs which are to be subjected to maximum permanent loads of 60KPa.
- BauderJFRI (300) is used for roofs subject to a permanent load of 90KPa.

## BauderJFRI Vapour Permeable Membrane

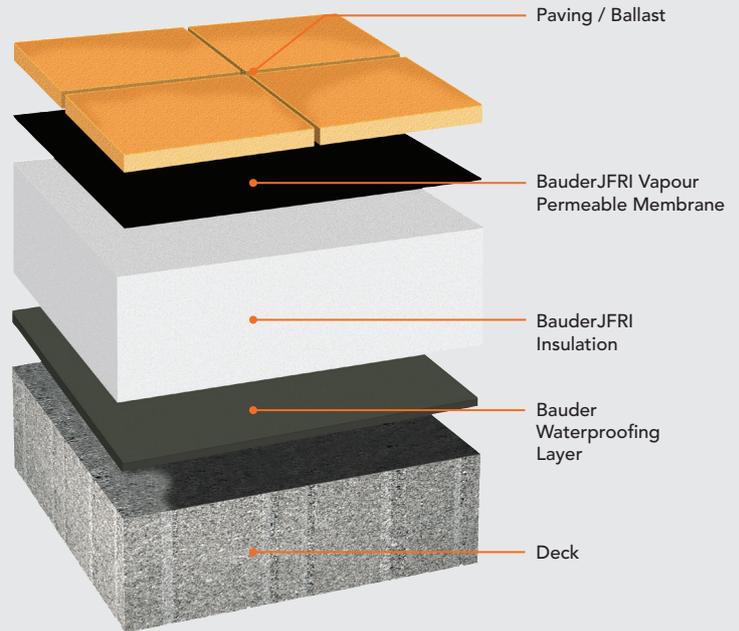
This product must be incorporated above the insulation at all times. Less rainwater is able to permeate down to the waterproofing, resulting in a lower cooling effect. This means that better U values can be achieved. (see table below)

Typical U Values Achieved by BauderJFRI Insulation (W/m<sup>2</sup>K) with BauderJFRI Vapour Permeable Membrane.

	145 mm	180 mm	200 mm	225 mm	240 mm	275* mm
U Value with BauderJFRI Vapour Permeable Membrane	0.25	0.20	0.18	0.16	0.15	0.13

\*In two layers

A standard concrete deck has been taken into account for the purposes of the calculations. Water filtration beneath the insulation has also been allowed for. These are guideline values only, please contact Bauder for bespoke thermal calculations for individual projects.



## Technical Data

JFRI (200)	JFRI (300)
Nominal density 30Kg/m <sup>3</sup>	Nominal density 40Kg/m <sup>3</sup>
Declared Thermal Conductivity (BS EN 13163) 0.033W/mk	
Thermal conductivity factored to BS EN ISO 10456 0.038W/mK	
Green guide rating A+	Green guide rating A
Colour - White	
Standard thickness 100, 120, 140, 160, 180, 200, 230, 240 and 250 mm	
Length 1215 mm (including 15 mm rebate)	
Width 1215 mm (including 15 mm rebate)	
Compressive strength at 10% deformation 200kN/m <sup>2</sup>	300kN/m <sup>2</sup>
Compressive strength at 1% nominal strain 90kN/m <sup>2</sup>	120kN/m <sup>2</sup>



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