

Technical data sheet



BauderECO FF Flatboard Insulation

V1 22.02.2024

Product description

BauderECO FF is a rigid foam thermoset Polyisocyanurate (PIR) board for the thermal insulation of flat roofs. The boards consist of a 80% biomass balanced insulation core, recycled raw materials from milling/sawing (1%) and utilises calcium carbonate from crushed shell which is waste from the food industry, incorporated with a glass fleece for the facing on both sides. The insulation board has rebated edges to reduce the risk of thermal bridging at the board joints.



Application fields

Thermal insulation for use within Bauder Total Roof System & Bauder Thermofol mechanically fixed warm roof system to provide efficient thermal insulation.

The insulation can be used on a variety of deck types and with a range of appropriate Bauder waterproofing systems. Can be adhered to the AVCL or mechanically fixed through to the deck.

Facing

top: Crushed shell/glass fleece
bottom: Crushed shell/glass fleece

Board edge

Rebated 15mm

Article Number (Thickness)

4881 0080 (80 mm) 4881 0125 (125 mm) 4881 0160 (160 mm)

Characteristic	Test method	Unit	Value
External dimension	EN 822	mm	1200 length x 600 width (1185 x 585 with rebate)
Thickness*	EN 823	mm	80, 125, 160
Weight		Kg/m ³	30
Reaction to fire	EN 13501 - 1	-	E
Compressive strength (with 10% compression)	EN 826	kPa	≥120
		N/mm ²	0.12
		Kg/m ²	12,000
Compressive strength (with 2% compression expected) (Figure to be used for permanently sited loads with adequate protection)	EN 1606	kPa	≥24
		N/mm ²	0.024
		Kg/m ²	2,400
Thermal conductivity (λ _D) - (EU)	EN 13165	W/mK	λ _D = 0,024: 80mm λ _D = 0,023: 125 & 160mm
Water absorption	EN 12087	Vol%	max. 3
PIR Index	-	-	> 250
Dimensional Stability	EN 13165: 2012+ A1:2015		DS (70,90) 3 DS (-20,-) 2

*These are the only thicknesses available and can be used in combinations of the three thicknesses to hit specific U Values. The insulation is a non-stock item, so please allow a minimum of 20 working days for delivery.

Safety Data Sheets are designed to provide the necessary information to recipients of substances and mixtures in the EU & UK. This product is classed as an article, therefore this product does not have a requirement for a Safety Data Sheet.



Notified body: FIW Munchen, 0751
EN 13165

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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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Storage/ Transport	Thermal insulation has to be transported and stored protected from moisture, open flames and direct sunlight.	
Product storage guidance	All insulation boards must be kept dry, on pallets and off the ground. The packaging of Bauder Insulation products should not be considered adequate for outside protection. Ideally boards should be stored inside a building. If outside storage cannot be avoided the boards should be stacked clear of the ground and covered with an opaque polythene sheet or weatherproof tarpaulin.	
Packaging material	The product will be delivered on EPS skids or wooden pallets with polythene overwrap (30% re-cycled content) to protect the product.	
Handling/PPE	All persons using the product should be fully aware of the manual handling methods as roofing materials are heavy and can cause serious injury. When using the product, installers should be provided with, and wear, suitable personal protective equipment.	
Shelf life	When stored correctly, the product has no stated shelf life.	
Disposal guidance	Rigid polyurethane foam waste can be disposed of with household waste or commercial waste similar to household waste (European waste catalogue EWC number 170604 "Insulation material").	
Re-use options of product	Please refer to EPD stated below in Certification and environmental information.	
Further information/ documents	Current documents such as brochures, installation guides, DoP's etc. can be found by visiting www.bauder.co.uk	
Certification and environmental information	Environmental Product Declaration	EPD-BAU-20220209-CBC1-EN
<input type="checkbox"/>	REDcert ² REDcert ² sustainability certification - 3rd party auditing for a voluntary certification scheme for the use of sustainable materials in the chemical industry. This is for the chemicals used to make PIR insulation and the finished product itself.	REDcert ² -904-39352301
International Standards Organisation (ISO)		ISO 9001:2015 Quality Management Certificates EN1271 (UK) and 70499/03-15_e (Germany) ISO 14001:2015 Environmental Management Certificates A10552 (UK) and 70499/03-15_d (Germany) ISO 50001: 2011 Energy Management Certificate 70499/03-15_c (Germany)

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