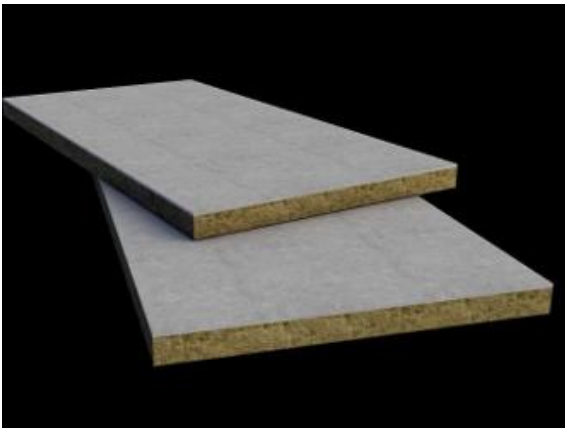


TECHNICAL DATA SHEET

BauderROCK NC 56mm Upstand Insulation

Product Description - A non-combustible upstand board consisting of a stone wool insulation slab bonded to 6mm weather resistant fibre-cement facing, making a combination of two non-combustible products. The insulation facing provides impact resistance as well as UV protection to the stone wool core.



Application Fields - Provides an impact and weather resistant non-combustible thermal insulation for use on low level inverted roof upstands including to, and across compartment walls.

This product is specifically for use at upstands where BauderXPS (300) and BauderJFRI Inverted Insulation is used on the main flat area.

For a comprehensive specification contact Bauder technical department.

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. BauderXPS, BauderGLAS or BauderROCK NC 56mm 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 or BauderGLAS 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 or BauderGLAS 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 INFORMATION AND TECHNICAL PERFORMANCE			
Characteristic	Test method	Unit	Value
Length	BS EN 822	mm	1200
Width	BS EN 822	mm	600
Thickness	BS EN 823	mm	50mm insulation + 6mm cement fibre board
Weight (board/m ²)	-	kg	10/14
Declared Performance			
Facing: Fibre-cement board			
Colour	-	-	Grey
Thickness - nominal	-	mm	6
Density	-	kg/m ³	1390
Thermal conductivity	-	W/mK	0.30
Flexural strength (ave Parallel & Transverse)	-	MPa	NPD
Bending strength	-	MPa	19.0
Fire Performance (component ratings)	BS EN 13501-1	-	A1
Insulation			
Colour	-		Grey/Green
Thickness	BS EN 823	mm	50
Width	BS EN 822	mm	NPD
Length	BS EN 822	mm	NPD
Compressive strength	BS EN 826	kPa	NPD
Thermal conductivity	BS EN 13162	W/mK	0.034
Nominal density - mineral wool only	BS EN 1602	kg/m ³	100
Water absorption by immersion	ATSM E136		NPD
Fire performance (component ratings)	BS EN 13501-1	-	A1
Report of the classification of the reaction to fire behaviour	DIN EN 13501-1	231000990-7	
Fire performance (Facing + Insulation)	Classified Euroclass A2-s1,d0 to BS EN 13501 – 1:2018 by MPA NRW under classification report no. 231000990-7 dated 06.10.2020. A2=limited combustibility. S1 (smoke)quantity/speed of emission=absent or weak. D0=no dripping.		

CERTIFICATION AND ENVIRONMENTAL INFORMATION	
BBA Certificate Number	N/A
Environmental Product Declaration (EPD)	EPD-RW_03-2021_RW-UK_EN-0001
Declaration of Performance (DoP)	-
Declaration of Conformity (DoC)	-

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International Standards Organisation (ISO)	<p>ISO 9001:2015 Quality Management Certificate - FM 02262 (UK)</p> <p>ISO 14001:2015 Environmental Management Certificate - EMS 54159 (UK)</p> <p>ISO 50001: 2018 Energy Management Certificate - 24714</p>
BRE Green Guide generic product rating	A
Ozone depletion potential (ODP)	0
Global warming potential (GWP)	<5
Recycled content	Mineral Wool 97% excluding fibre cement board

INSTALLATION GUIDANCE

The BauderROCK NC 56mm Upstand Board is designed to be used with Bauder EPS and XPS Inverted Roof Insulation.

BauderROCK NC 56mm 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, BauderROCK NC 56mm Upstand Insulation is suitable for long term exposure – for example when used in conjunction with an inverted roof system.

Under no circumstances should the stone wool slab be exposed.

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.

If there are single or multiple layers of insulation to the horizontal field areas, BauderROCK NC 56mm Upstand Insulation must always be sat on the deck. Not on the first or second layers.

Low Level Installations

Up to 150mm above the ballast.

No fixing required providing installation guidance above is followed.

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.

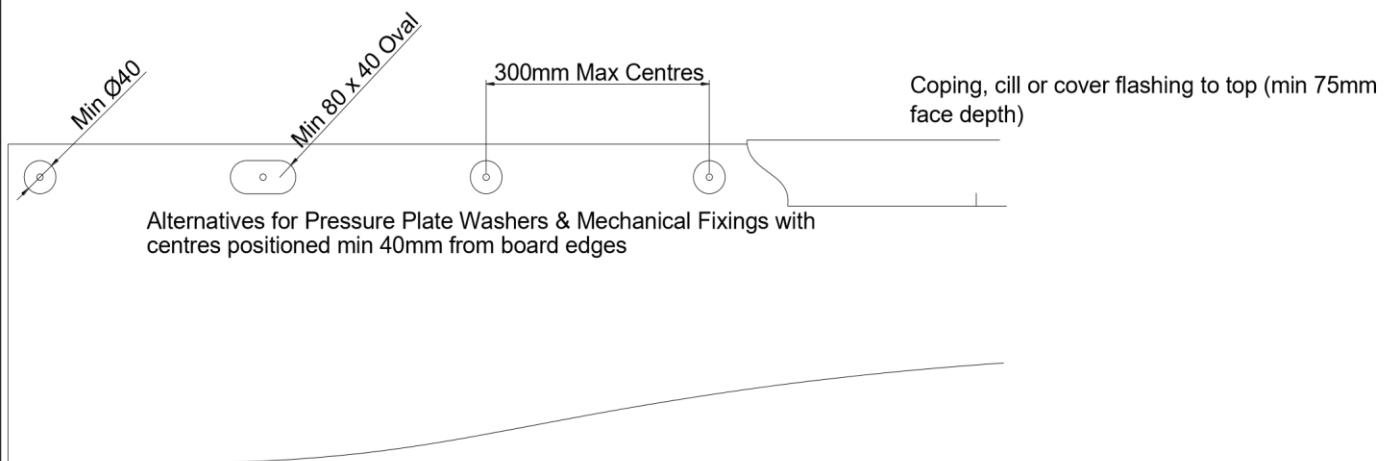
Boards should be pre-drilled with over-sized holes relevant to cement particle board, (at least 2mm oversize), to allow for expansion. Fixings should typically be positioned across the top edge of the board at maximum 300mm centres, minimum 40mm from the corners of the board and 40mm in from the top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

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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 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.



Fixing Alternatives - 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 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 BauderROCK NC 56mm Upstand Insulation Board, it may be saw cut by hand or with an appropriate power tool.

Mineral wool 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 or cement particle board.

Cement particle board - 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 insulation or cement particle board.

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

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

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TRANSPORT
BauderROCK NC 56mm Upstand Insulation Board is generally transported direct to site from the manufacturer on artic or rigid vehicles. Smaller specialist vehicles such as rigid/moffett/flat bed/pump truck & tail lift are available.
Due to the weight of this material all insulation must be offloaded via a forklift or crane and cannot be handballed.
PRODUCT STORAGE GUIDANCE
Ideally, boards should be stored inside a well-ventilated building. If, however, outside storage cannot be avoided, then the boards should be stacked clear of the ground and covered with a pale pigmented polythene sheet or weatherproof tarpaulin.
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.
PACKAGING MATERIAL
BauderROCK insulation boards are fully palletised and wrapped in a polythene shroud for protection during transit and for short-term protection if stored outside. Pallet size – 2.4 x 1.2 x 1.2m high approx. 72 boards per pallet (51.84m ²)
HANDLING/PPE
All persons using this product should be fully aware of the manual handling methods as roofing materials are heavy and can cause serious injury. When using this product, installers should be provided with, and wear, suitable personal protective equipment.
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 in contact with throat, skin or eyes may cause temporary itching/inconvenience.
SHELF LIFE
When stored correctly, the product has no stated shelf life.
DISPOSAL GUIDANCE
Off-cuts need to be disposed via an authorised disposal contractor to an approved waste disposal site, observing all relevant regulations. (European waste catalogue EWC number 17 06 04 "Insulation material").
RE-USE OPTIONS OF PRODUCT
Please refer to EPD in Certification and Environmental information section. Document can be found at www.bauder.co.uk
Product is recyclable. For waste BauderROCK NC 56mm Upstand Insulation that may be generated during installation or at end of life, we are happy to discuss the individual requirements of contractors and users considering returning these materials with the manufacturer for recycling.
FURTHER INFORMATION/DOCUMENTS
Current documents such as brochures, installation guides, etc can be found by visiting www.bauder.co.uk

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.