

## BauderGLAS Slab T3+

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<b>Product description</b>	BauderGLAS Slab T3+ is an un-faced insulation slab manufactured from specially graded recycled glass ( $\geq 60\%$ ) and natural raw materials which are available in abundant supply (sand, dolomite, lime...). The insulation is totally inorganic, contains no ozone depleting propellants, flame resistant additives or binders. Without VOC or other volatile substances. The core material is non-combustible.
<b>Application fields</b>	Thermal insulation with a high compressive strength for use within Bauder warm roof waterproofing systems to be used as a base layer on a concrete, plywood or timber deck when the insulation is required in more than one layer.
<b>Facing</b>	top: Un-faced  bottom: Un-faced
<b>Board edge</b>	Square (not rebated)
<b>Available Thicknesses</b>	50 to 200mm in 10mm increments
<b>Website Link</b>	<a href="https://www.bauder.co.uk/products/glas-flatboard">https://www.bauder.co.uk/products/glas-flatboard</a>



Characteristic	Test method	Unit	Value
Density	EN 1602	Kg/m <sup>3</sup>	100
Thickness $\pm 2$ mm	EN 823	mm	50 to 200 in 10mm increments
Length $\pm 5$ mm	EN 822	mm	600
Width $\pm 2$ mm	EN 822	mm	450
Reaction to fire	EN 13501 - 1	-	Core material complying with Euroclass A1, non-combustible, no toxic fumes
Thermal conductivity ( $\lambda_D$ )	EN ISO 10456	W/mK	$\lambda_D \leq 0.036$
Compressive strength	EN 826	kPa	CS $\geq 500$
		N/mm <sup>2</sup>	0.50
		Kg/m <sup>2</sup>	50,000
Bending Strength	EN 12089	kPa	BS $\geq 400$
Tensile Strength	EN 1607	kPa	TR $\geq 150$
Service Temperature Limits	-	-	From -265°C to +430°C
Water vapour resistance	EN ISO 14056	-	$\mu = \infty$
Hygroscopicity	-	-	Zero
Capillarity	-	-	Zero
Melting point	cf DIN 4102-17	-	>1000°C
Thermal expansion coefficient	EN 13471	-	9 x 10 <sup>-6</sup> K <sup>-1</sup>
Specific heat	EN ISO 10456	-	1000 J/(kg.K)

Compressive strength for permanently sited loads – please contact Bauder Ltd where plant/equipment is to be sited on top of the Bauder system

CE – Marking ensure conformity with the mandatory essential requirements of CPD as mentioned in EN13167; within the CEN Keymark certification all mentioned characteristics are certified by an empowered, notified, and accredited 3rd party.

<b>Normative references</b>	For updated references, the latest edition of the referenced document (including any amendments) applies.
<b>Storage/ Transport</b>	Thermal insulation has to be transported and stored protected from moisture, open flames and direct sunlight.
<b>Product storage guidance</b>	Store the materials outdoors with suitable robust UV resistant, flame-retardant tarpaulin. Ensure the product(s) are clear of buildings and any other storage areas. The products must not be exposed to a direct naked flame or other ignition sources, or to solvents or other chemicals. 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 weather protection. Where there are storage containers on site, these may be suitable for storing products.
<b>Packaging material</b>	BauderGLAS Insulation Boards are shrink wrapped in polythene with cardboard protection and delivered to site on pallets. Each pack shows the manufacturer's name, grade, type marking.
<b>Handling/PPE</b>	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. PPE should include appropriate safety goggles when cutting, drilling, or abrading to protect against dust/projectile material. Wear the PPE generally required for the jobsite with a minimum of gloves to protect against possible sharp edges on the cellular glass board and a suitable dust mask to protect against dust inhalation.  Safety glasses are a must when handling, cutting, grinding, crushing, or drilling BauderGLAS Insulation. Wear safety glasses with side shields or dust goggles in dusty environments. Wear goggles for dust protection while

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cutting or abrading in wind.

A mouth nuisance dust mask (type FFP1 or higher) is useful when cutting or abrading, but not necessary. BauderGLAS Insulation is not toxic.

## Shelf life

When stored correctly, the product has no stated shelf life.

## Disposal guidance

BauderGLAS Insulation is recyclable. Off-cuts need to be disposed via an authorised disposal contractor to an approved waste disposal site, observing all relevant regulations.

## 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, etc. can be found by visiting [www.bauder.co.uk](http://www.bauder.co.uk)

## Certification and environmental information

**Environmental Product Declaration** EPD-PCE-20200300-IBB1-EN

## International Standards Organisation (ISO)

**ISO 9001:2015 Quality Management**  
Certificates EN1271 (UK)

**ISO 14001:2015 Environmental Management Certificates**  
A10552 (UK)

**ISO 50001:2011 Energy Management**  
Cert No: BM-733-585-1836 Belgium

**ISO 9001:2015 Quality Management**  
Cert No: BQ-700-585-1831 Belgium

**ISO 14001:2015 Environmental Management**  
Cert No: BM-730-585-1838 Belgium

**Installation Guidance:** Please refer to the Bauder Installation Guide and project specification for guidance.

- BauderGLAS must be installed in dry conditions.
- BauderGLAS to be bonded in the specified Bauder adhesive.
- Can only be used as a base layer for BauderGLAS flatboard and tapered insulation when the insulation is required in more than one layer. Cannot be used as the top layer as the board has no facing for the underlayer to bond to.
- Prior to the BauderGLAS Insulation being installed the waterproofing must be cleaned of all debris. This careful preparation will result in a stable and rigid insulation build up.
- The top of the boards must be swept prior to installation of the top layer of boards to allow an adequate bond between the layers.
- BauderGLAS Insulation is easily trimmed and shaped, therefore if the substrate or abutment is uneven, it's easy to modify the insulation by abrading/sanding or cutting to fit. The BauderGLAS Insulation layers must be fully supported upon the substrate with no rocking or movement. Please see below tools which can be used to aid trimming/shaping of the boards:



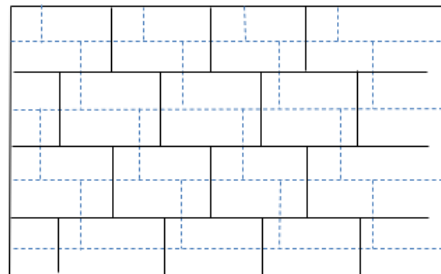
## Two Layer system:

Each insulation layer is offset relative to the other, The best staggered overlap is 150mm or more. Infill pieces must have a minimum width of 150mm. The base layer, slab should always be installed with staggered joints, with minimum stagger of 150mm (Picture below - dotted line).

The insulation top layer, should always be installed with staggered joints, with minimum stagger of 150mm (Picture below - black line)

To maximise insulating performance ALL abutments and insulation joints MUST be tightly butted up. If necessary, re-measure, replace or cut/sand down and re-install any insulation which is not fitting correctly. Also ensure BauderGLAS Insulation is tight with no gaps where it meets rooflights, walls, edge details and other services which perforate the roof deck.

See blue dotted line = BauderGLAS Slab T3+ Black full lines = BauderGLAS faced board.



## Cutting BauderGLAS Insulation:

Bauder recommends that designated areas are set out on each roof area to limit the spread of debris accumulated in the cutting and abrading processes.

BauderGLAS Insulation is easy to cut and adjust.

Many contractors will set up a working area with all the necessary marking out and cutting tools; this ensures all the offcuts and dust is in one working area. Regularly clear away the offcuts and dust to maintain a clear and dust free working and installation area.

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Sanding/abrading is used to make small adjustments.

Cutting is used to trim down the insulation to create the staggered layout, and to fit neatly against the adjacent insulation and abutments. To maximise insulating performance ALL abutments and insulation joints MUST be tightly butted together. If necessary, re-measure, cut and re-install any insulation which is not fitting correctly.

A metal saw or hardpoint timber saw is used for cutting all BauderGLAS insulation. It is important to use a square edge, mark a line (pic 1), and make a clean and straight cut (pic 2). Prepare a robust, flat working surface which fully supports the insulation. This will ensure accurate, safe, and easy cutting of the insulation material.



Cutting the insulation with a saw.

Make sure the insulation is fully supported and not rocking or moving. Saw on the downstroke, DO NOT saw on the upstroke, this will chip the insulation.

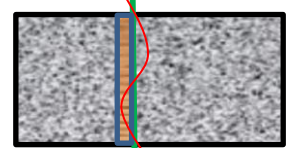
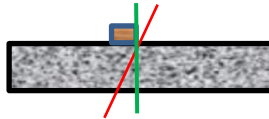
Carefully saw in a straight line (green 😊) if you do not saw in a straight line (red 😞) you will have additional work to sand the insulation until you have a flat surface.

If a diagonal line is to be cut, measure and mark very carefully to ensure the angle is accurate.

To ensure the insulation system is closed up tightly, where possible ensure that the factory machined edges of the insulation butt up against each other; and the cut edges are against an abutment such as a parapet, or rooflight etc.

Ensure you saw in a straight line and cut vertically through the insulation.

(green 😊, red 😞)



The cut side of the BauderGLAS should be to the outside (wall/parapet) to prevent open joints and getting misplacements of the next slabs.

## Making holes in BauderGLAS Insulation:

To cut round holes through the insulation place the insulation on a flat and stable surface. Select a thin-walled tube with the correct external diameter (Pic 3).

Using a rotating motion gradually press the tube through the BauderGLAS (finish as Pic 4).

Large holes should be cut with a saw and neatly sanded to the desired shape.



## Sanding/Abrading BauderGLAS insulation after cutting:

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Use a sanding block to shape the underside of the insulation, to ensure a firm and stable contact with the substrate or an abutment.

Sanding the edge of BauderGLAS Insulation, sand with a downwards motion. Do not sand on the upward strokes, as this can possibly chip the insulation (see Pic 5).

**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.**



DoP can be found via the website