

BauderGLAS Angle Fillet

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Product description

BauderGLAS Angle Fillet is an un-faced triangular profiled section 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.

Application fields

For use in conjunction with BauderGLAS Insulation. The product is designed to fully support the waterproof membrane at 90° abutments, providing a smooth transition between the horizontal and vertical interface.

Article Number

GB30259010



Characteristic	Test method	Unit	Value
Density	EN 1602	kg/m ³	115
Length \pm 5mm	EN 822	mm	450
Dimensions	EN 822	mm	50 x 50 (triangle)
Reaction to fire	EN 13501 - 1	-	Core material complying with Euroclass A1, non-combustible, no toxic fumes
Thermal conductivity (λ_D)	EN ISO 10456	W/mK	$\lambda_D \leq 0.036$
Bending Strength	EN 12089	kPa	BS \geq 450
Tensile Strength	EN 1607	kPa	TR \geq 150
Service Temperature Limits	-	-	From -265°C to $+430^\circ\text{C}$
Water vapour resistance	EN ISO 14056	-	$\mu = \infty$
Hygroscopicity	-	-	Zero
Capillarity	-	-	Zero
Melting point	cf DIN 4102-17	-	$>1000^\circ\text{C}$
Thermal expansion coefficient	EN 13471	-	$9 \times 10^{-6} \text{ K}^{-1}$
Specific heat	EN ISO 10456	-	1000 J/(kg.K)

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.

Storage/ Transport

Thermal insulation has to be transported and stored protected from moisture, open flames and direct sunlight.

Product storage guidance

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.

Packaging material

BauderGLAS angle fillets are shrink wrapped in polythene (readily recyclable) with cardboard (readily recyclable) protection and delivered to site on pallets. Each pack shows the manufacturer's name, grade, type marking.

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. 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 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 angle fillets are recyclable. Off-cuts need to be disposed via an authorised disposal contractor to an approved waste disposal site, observing all relevant regulations.

Technical data sheet

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
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.
- With the longest face facing outward, place the angle fillet against the upstand, bonded in the specified Bauder adhesive.
- Prime the face of the angle fillet with Activator-Primer prior to installation of the Bauder underlayer.
- Adjacent lengths of angle fillet to be closely butted together.
- BauderGLAS angle fillets can be cut to size using a fine-toothed saw or metal.
- 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 angle fillets to allow an adequate bond between the layers.
- BauderGLAS angle fillets are easily trimmed and shaped, therefore if the substrate or abutment is uneven, it's easy to modify by abrading/sanding or cutting to fit. Please see below tools which can be used to aid trimming/shaping of the fillets:



Grind Board



Grater

Cutting BauderGLAS angle fillets:

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 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.

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.

Sanding/Abrading BauderGLAS insulation after cutting:

Use a sanding block to shape the underside of the fillet, 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.

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



DoC can be found via the website