

Description of Product

Alumasc CGlass Inv Insulation is a non-combustible cellular glass board with a pre-applied inorganic mineral coating on the upper surface. The insulation is inorganic, contains no ozone depleting propellants, flame resistant additives, binders, Volatile Organic Compounds (VOC's) or other volatile substances.

Suitable for use in inverted roof constructions above the waterproofing layer, in conjunction with Alumasc LO-K Water Flow Reducing Layer (WFRL), and beneath roof finishes such as paving, ballast, and green roof systems.

Product Information

Alumasc CGlass Inv Insulation			
Product code	GLA-I		
Composition	Recycled glass (≥60%) and natural mineral raw materials (sand, dolomite, lime)		
Facing	Upper surface: Pre-applied inorganic coating		
	Lower surface: Unfaced		
Edge profile	Square		
Length / Width	600 x 450mm (0.27m ²)		
Thickness (mm)	100	140	160
Indicative weight (kg/m ²)	9.5	13.3	15.2

All dimensions are nominal and subject to manufacturing tolerances.

Technical Information

Characteristic	Standard	Unit	Value
Reaction to fire	EN 13501-1	Euroclass	A1
Thermal conductivity	EN 13165	W/mK	0.038
Density	EN 823	Kg/m ³	95 (± 15%)
Compressive strength	EN 826	kPa	≥ 400
Compressive creep	EN 1606	kPa	(1.5/1/50) 225
Water vapour resistance	EN ISO 10456	μ	∞
Water absorption in short term	EN 1609	Kg/m ²	≤ 0.5
Hygroscopicity	EN ISO 12571	-	Zero

Application Information

The substrate should be sufficiently smooth and level to provide full support to the insulation boards with no rocking or movement. As a guide, under a straightedge deviations should not exceed 5mm over 2m or 3mm over 600mm. Minor trimming or sanding of the boards may be required to achieve a stable bearing surface over uneven substrates or at abutments.

Install the boards in dry conditions using a staggered bond pattern, ensuring all joints are tightly butted. Ensure boards are cut square with no gaps at joints or abutments.

Boards are loose laid over the completed waterproofing or directly over the **Alumasc CGlass T3+ Slab** in multi-layer installations. Where multiple layers are required, ensure board joints are offset between successive layers.

Cut using a hand saw blade.

The insulation and WFRL must be progressively ballasted throughout the installation process to achieve the required wind uplift resistance. If temporary ballasting must be used, it should prevent any movement of the WFRL.

The imposed ballast load shall be determined by project-specific wind load calculations. As a minimum, a load of 80 kg/m² must be provided to prevent flotation.

Storage & Handling

Store flat on a clean, dry surface off the ground and under waterproof protection. Factory packaging is used to wrap the product for transit and is not intended to provide protection during storage. Boards must be kept dry at all times prior to installation.

Consider the load's size, shape, and weight before lifting. Manual handling assessments should be completed for heavy or repetitive lifting in accordance with HSE guidance; refer to document INDG143. Appropriate PPE must be worn as identified in the project risk assessment, Safety Data Sheet, and site-specific requirements.

Health & Safety

Copies of Alumasc Safety Data Sheets can be downloaded from the Alumasc Roofing [website](#).