

Description of Product

Alumasc Multi-Fix (DD) Mineral Wool Insulation is a dual-density, non-combustible stone wool board comprising a high-density upper surface and a lower density base layer, faced with a mineral-coated glass fibre fleece on the upper surface. The dual-density construction provides enhanced resistance to compressive loads while maintaining a low overall board weight.

Suitable for use in warm roof constructions beneath a wide range of waterproofing systems, including bituminous, single-ply, and liquid-applied membranes, which are installed using torch-applied, adhered, or mechanically fixed methods.

Product Information

Alumasc Multi-Fix (DD) Mineral Wool Insulation						
Product code	MWGTF					
Composition	Stone wool (volcanic rock)					
Facing	Upper surface: Mineral fleece					
	Lower surface: Unfaced					
Edge profile	Square					
Length / Width	1200 x 1000mm (1.2m ²)					
Thickness (mm)	60	85	105	115	150	185
Indicative weight (kg/m ²)	10.50	14.0	17.50	18.50	24.0	29.0

Alumasc Multi-Fix (DD) Mineral Wool Cut to Falls Insulation			
Length / Width	1200 x 1000mm (1.2m ²)		
Taper gradients	1:80	1:60	1:40
Design	Full tapered insulation design and layout service available		

For multi-layer applications, unfaced **Alumasc (DD) Mineral Wool Underlay** can be installed as the lower insulation layer.

Alumasc Multi-Fix (DD) Mineral Wool Underlay			
Product code	MWGTF		
Facing	Unfaced		
Length / Width	1200 x 1000mm (1.2m ²)		
Thickness (mm)	120	150	170
Indicative weight (kg/m ²)	19.0	24.0	27.0

Technical Information

Characteristic	Standard	Unit	Value
Reaction to fire	EN 13501-1	-	A2-s1,d0
Thermal conductivity	EN 13165	W/mK	0.039
Compressive strength at 10%	EN 826	kPa	70
Design compressive stress (long-term)	-	kPa	5

Application Information

Install in a staggered bond pattern with tightly butted joints. For multi-layer installations, ensure board joints are offset between successive layers. Ensure boards are cut square with no gaps at joints or abutments.

On metal decks, boards should be laid with their long edges perpendicular to the deck corrugations.

Boards may be installed using either adhesive bonding or mechanical fixing, subject to project-specific design requirements as detailed within the Alumasc specification.

Compatible adhesives:

- Eurorof PU Insulation Adhesive
- Eurorof QC PU Insulation Adhesive

For mechanically fixed installations, 4 No. fixings per m² (5 No. per board) are required for bonded and torch-applied membrane systems, using suitably sized tube washers or stress plates with compatible fasteners.

For self-adhesive membrane applications, prime the insulation facer with **Eurorof SA Primer** prior to installation.

Cut using a fine-toothed saw or a panel saw.

Acoustic Performance

Alumasc Mineral Wool Recovery Board is suitable for school refurbishment projects, supporting the acoustic refurbishment standards set out in Table 1 of Building Bulletin 93, Acoustic Design of Schools: Performance Standards.

Tested in accordance with ISO 140-18 for rain noise performance. The open-fibre stone wool structure contributes to the reduction of airborne sound transmission and rain impact noise. Acoustic performance is dependent on the complete roof construction; sound reduction values of up to 40-50 dB may be achieved, subject to system configuration and test evidence.

For perforated metal deck constructions, Acoustic Infills are available for installation within deck troughs where additional acoustic absorption is required as part of the roof system design. Manufactured from stone wool and pre-cut to suit specific deck profiles, the infills are faced on all sides with an acoustically transparent tissue covering.

Enhanced Load Distribution

Where the anticipated loading exceeds the design compressive strength of the insulation layer, an **Alumasc A1 Cover Board** may be incorporated above the insulation. The cover board improves load distribution as tested by Alumasc Roofing and provides a durable substrate for the waterproofing system.

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](#).