

Description of Product

Alumasc FF PIR Insulation is a rigid thermoset polyisocyanurate board faced on both sides with a low emissivity composite foil. Available in uniform thicknesses and can also be supplied as a tapered insulation system to create falls for roof drainage.

Suitable for use in warm roof constructions beneath mechanically fixed single-ply waterproofing membranes.

Product Information

Alumasc FF PIR Insulation											
Product code	PUFF										
Composition	Polyisocyanurate (PIR) core										
Facing	Low emissivity composite foil										
Edge profile	Square										
Length / Width	2400 x 1200mm (2.88m ²)										
Thickness* (mm)	25	50	60	70	80	90	100	110	120	140	150
Indicative weight (kg/m ²)	1.11	1.80	2.15	2.48	2.80	3.25	3.50	3.99	4.10	4.80	5.10

* The above are stocked thicknesses; additional thicknesses are available on request. Factory pre-bonded boards are available from 170mm to 300mm and are manufactured to order.

Alumasc FF PIR Cut to Falls Insulation	
Length / Width	1200 x 1200mm (1.44m ²)
Taper gradient	1:60
Design	Full tapered insulation design and layout service available

Technical Information

Characteristic	Standard	Unit	Value
Reaction to fire	EN 13501-1	-	F
Thermal conductivity	EN 13165	W/mK	0.022
Density (foam core)	-	Kg/m ³	± 32
Compressive strength at 10%	EN 826	kPa	150
Design compressive stress (long-term)	-	kPa	40

Application Information

Install in a staggered bond pattern with tightly butted joints. 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.

Secure by mechanical attachment using suitably sized tube washers and compatible fasteners. Fasteners shall be installed in strict accordance with the project-specific wind load calculations and warranty requirements.

Fasteners shall be arranged in an even pattern and positioned >50mm and <150mm from board edges and corners, ensuring they do not overlap board joints.

For multi-layer installations, the lower board shall be mechanically fixed with at least one fixing at the centre of each board before installation of the top layer. Ensure board joints are offset between successive layers.

Cut using a fine-toothed saw or a sharp knife.

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](#).