

AlumTech



Description

AlumTech is a radiant insulation for application on pitched roofs. It consists of two layers of bubble polyethylene and two layers of low emission aluminium foil, continuously thermo welded. The materials used to make **AlumTech** are absolutely safe, non toxic and non harmful.

AlumTech allows you to create an insulation system that achieves 0.2U value for the life of your roof, as required by PART L Building Regulations and utilizes the minimum amount of space to do so.

Technical Performance

AlumTech forms part of an insulation system and is not intended for use in isolation. The product has been exhaustively tested at the National Physical Laboratory for reliability and acceptability by local authority building control. Thermal performance of reflective insulating materials is not affected by vapour absorption unlike some traditional insulating products.

Typical construction methods and calculations are as follows:

100mm rafters with AlumTech and PUR

Materials	Thickness (m)	Thermal Resistance (m ² K/W)
Outside surface resistance		0,04
Tiles including batten space	0,020	0,18
Breather membrane		
Secondary Insulation (PUR $\lambda = 0,023$)	0,08	3,47
Air Cavity	0,020	
AlumTech	0,008	1,26
Inside surface resistance		0,1000
Total		R= 5,05 m²K/W (U= 0,198 W/m²K

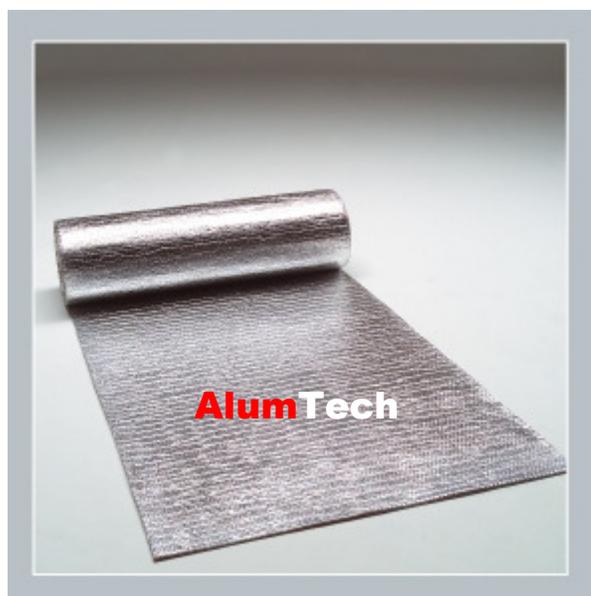
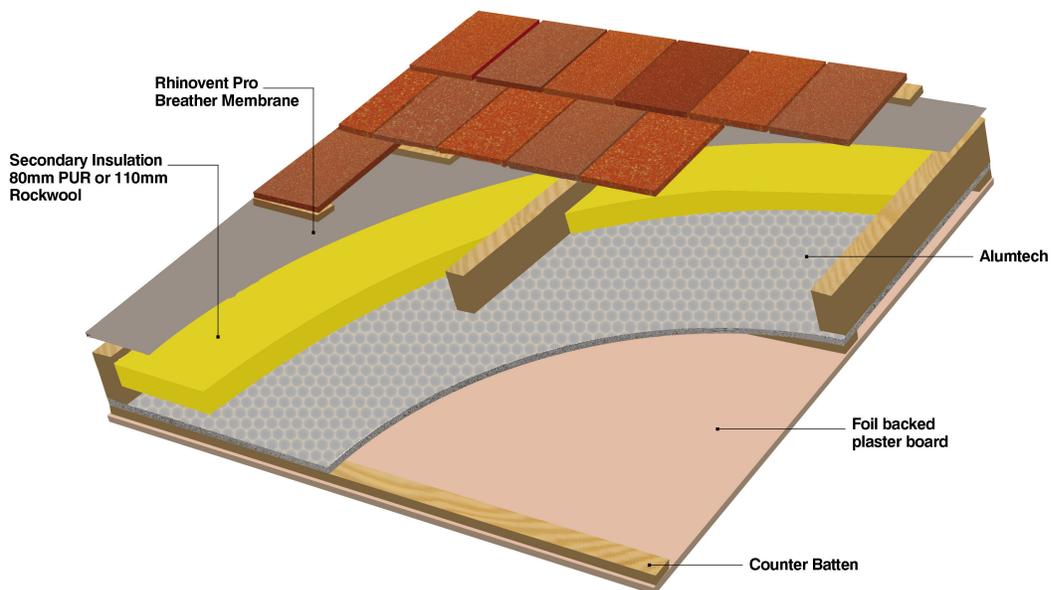
150mm rafters with AlumTech and Glass Wool

Materials	Thickness (m)	Thermal Resistance (m ² K/W)
Outside surface resistance		0,04
Tiles including batten space	0,020	0,18
Breather membrane		
Secondary Insulation (glass wool $\lambda = 0,032$)	0,11	3,43
Air Cavity	0,04	
AlumTech	0,008	1,26
Inside surface resistance		0,1000
Total		R= 5,01 m²K/W (U= 0,199 W/m²K



Installation

The product's lightness and reduced thickness make transportation, storage and installation easy. The product can be stapled or nailed. All joints should be taped with single sided aluminium faced tape. For advice on installation please contact the sales office at Principal Building Products Ltd.



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