

ALREFLEX RAFTER THERM

Refurbishment Non Ventilated Roof Insulation System For Retained Roof Coverings

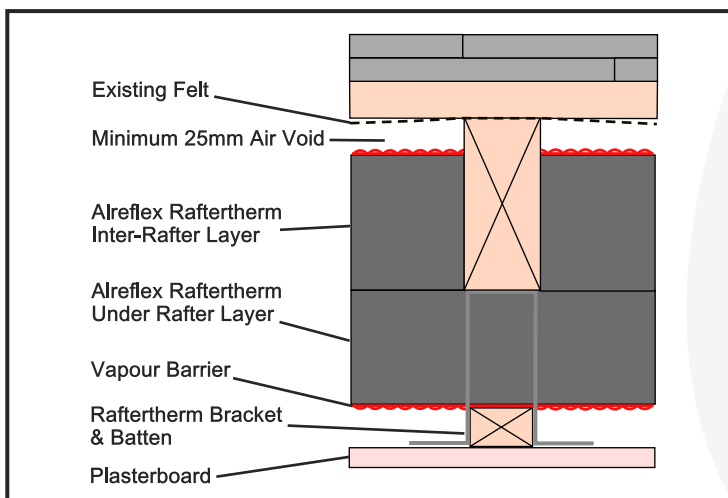
**U-value
0.18W/m²K**



High performance pitched roof insulation system

- ▶ Existing roof covering can be retained.
- ▶ Standard construction details to achieve Part L compliance.
- ▶ Can provide over 30% cost saving when compared to PUR solutions.
- ▶ Internal Alreflex foil layer provides vapour barrier.
- ▶ The unique Raftertherm Bracket minimises cold bridging through the insulation board.

SECTION DETAIL



The Raftertherm Refurbishment system can be completely fitted from below when retaining the existing roof covering.

If you require project specific U-value or condensation calculations for SAP or Code for Sustainable Homes assessments please contact our Technical Department on 01582 544255.

The below U-values are achieved in constructions comprising 100mm Rafters at 400mm Centres.

Alreflex Raftertherm Inter-Rafter Layer Board Type A	65mm	65mm
Alreflex Raftertherm Under Rafter Layer Board Type A	95mm	80mm
U-value (W/m ² K)	0.16	0.18

THE SYSTEM

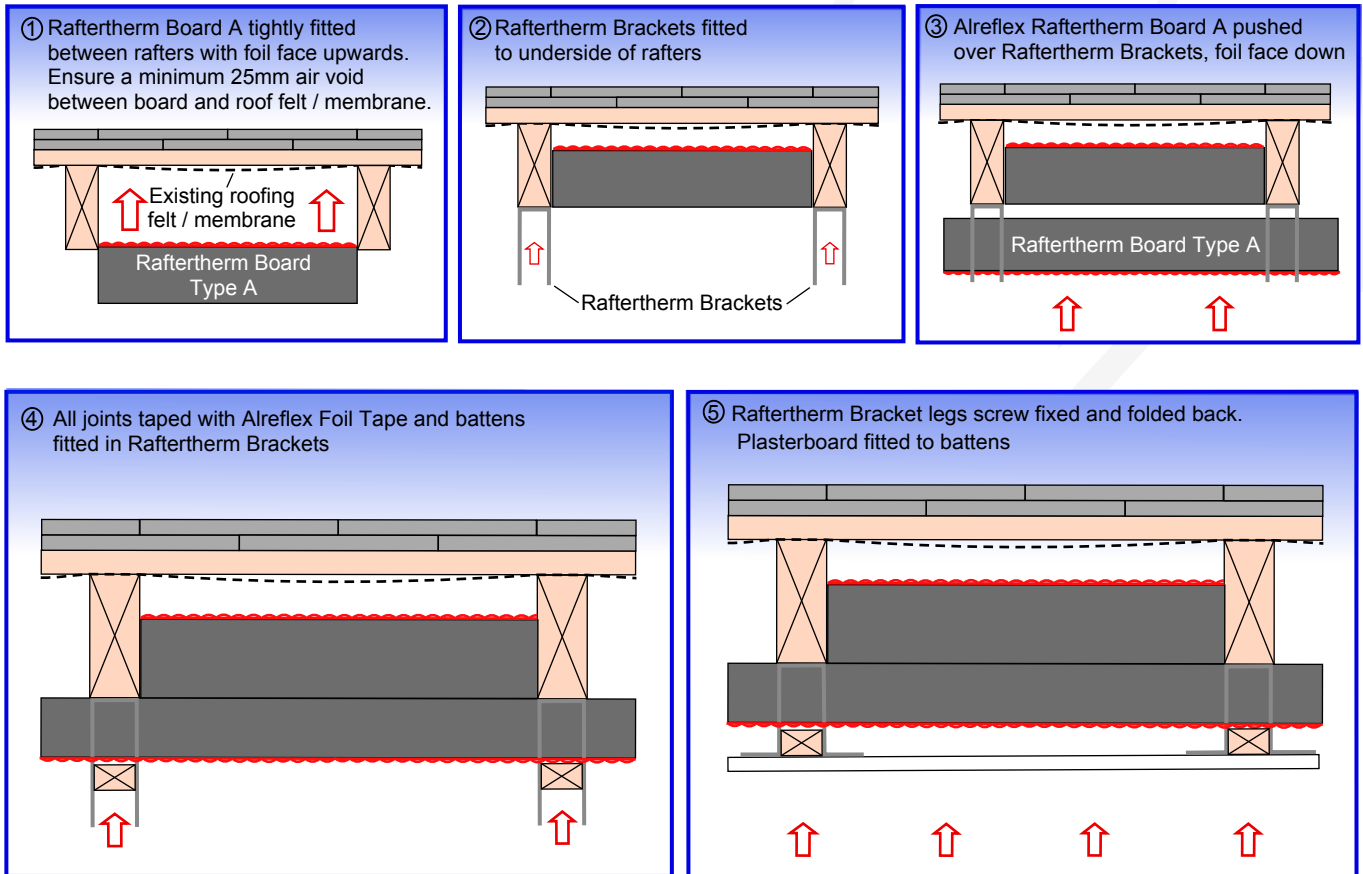
RAFTERTHERM roof rafter insulation system consists of two special PLATINUM polystyrene boards, which have been laminated with a low emissive aluminium bubble foil.

The insulation boards and the batten are fitted using the proprietary RAFTERTHERM BRACKET.

All joints on the internal foil surface are taped with ALREFLEX FOIL TAPE prior to the fitting of the plasterboard.

PLATINUM polystyrene has been treated with graphite which enhances both the strength and thermal performance of the material. The low emissive foil facings serve to further increase the insulating effect and provide an integral barrier to vapour flow and air pressure loss.

INSTALLATION DETAILS



Please refer to Raftertherm New Build Installation Guide for full installation instructions.

THE BENEFITS

PLATINUM polystyrene is considerably cheaper than PUR or PIR.

The system can be installed without removal of the roof cladding.

The integral foil vapour barrier eliminates the need for the normal ventilation void requirement; thereby maintaining the existing roof profile and reducing the overall construction depth.

The RAFTERTHERM BRACKET enables the easy fitting of the internal insulation board and ceiling (as compared to the thick laminate plasterboards used in the PUR systems).

CONTACT DETAILS

Web: www.thermal-economics.co.uk

Tel: Technical Department: 01582 544255

Tel: Sales Department: 01582 544256

e-mail: info@thermal-economics.co.uk

PRODUCT CERTIFICATION

Alreflex Platinum holds a BBA Certificate 93/2861.

VENTILATION/CONDENSATION CONTROL

Calculations have been carried out in accordance with BS5250 "CONTROL OF CONDENSATION IN BUILDINGS" and BS EN ISO 13788:2002 to verify that the construction is free from condensation risk. These calculations can be supplied upon request.

THE ENVIRONMENT

ALREFLEX RAFTERTHERM has zero global warming potential and zero ozone depletion potential.

Thermal Economics
THERMAL & SOUND INSULATION TECHNOLOGY