

INSTALLATION GUIDELINES

VENTILATED ROOF

1. Fix positioning battens to inner face of rafters, flush with the top edge of the timber.
2. Allow for ventilation gaps, normally 50mm. (May be reduced depending on breather membrane certification).
3. Cut boards with a fine toothed saw to fit tightly between rafters, flush with the bottom of the rafter. Allow slight oversize of cut to achieve 'friction fit' and seal any gaps with expanding foam.
4. An additional second layer is required, this should be fixed to the underside of the rafter. Run second layer transverse to the first with joints tightly butted. Fix with nails to hold insulation in place until plasterboard is installed.
5. Provide a separate vapour control layer between insulation and plasterboard or alternatively, tape the joints of the insulation with an aluminium foil tape.
6. Finish with plasterboard fixed with drylining screws. Screw fix every 150mm, 12mm from edge of boards ensuring a minimum 30mm penetration into the rafter.

Alternatively the second layer can be achieved with XT/TL Xtratherm Drylining board. Repeat steps 1 to 3 and replace second layer with XT/TL, a ready made PIR insulation board bonded to plasterboard. Where joints between sheets of XT/TL are unsupported by the rafters, timber noggins should be installed. Seal and tape the joints of the plasterboard in accordance with Standard Drylining Practice.

WARM ROOF

1. Ensure cavity wall insulation has continued to roof height to meet with the roof insulation.
2. Fix a treated timber stop rail to the end of the rafter at the eaves.
3. Lay XT/PR staggered jointed over the rafters. Ensure joints are tightly butted and fill any gaps with expanding foam. Joints should be fully supported by rafters. Boards can be temporarily fixed with nails.
4. Fix 38mm x 50mm counter battens with approved fixings through the XT/PR into the rafter. The amount of fixings is determined by the fixing manufacturer who can also provide wind load calculations.
5. A breathable sarking membrane should be fitted; refer to manufacturer's Agrément certification. Ventilation may have to be provided subject to that certification and minimises the risk of interstitial condensation forming on the underside of the membrane. Providing an unventilated void under the membrane can improve the thermal performance.

6. Secure 50mm x 25mm tiling battens through counterbatten and XT/PR to the rafter.
7. If an additional second layer is required, this should be fixed between the rafters.
8. Cut boards with a fine toothed saw to fit tightly between rafters, flush with the top of the rafter. Allow slight oversize of cut to achieve 'friction fit' and seal any gaps with expanding foam.
9. Provide a separate vapour control layer between the bottom of rafter and plasterboard.
10. Finish with plasterboard fixed with drylining screws. Screw fix every 150mm, 12mm from edge of boards ensuring a minimum 30mm penetration into the rafter.

HYBRID ROOF

Follow the same procedure as a ventilated roof except an approved Vapour Permeable underlay is used above the rafter allowing the 50mm ventilation space to be dispensed with. Typically, a 25mm unventilated void is to be maintained; Agrément certification covering the membrane should be consulted.

HANDLING, CUTTING AND STORAGE

Xtratherm insulation should be stored off the ground, on a clean flat surface and must be stored under cover. The polythene wrapping is not considered adequate protection for outside exposure. Care should be taken to protect the insulation in storage and during the build process.

The insulation boards can be readily cut using a sharp knife or fine toothed saw. Ensure tight fitting of the insulation boards to achieve continuity of insulation as asked for within the ACDs. Appropriate PPE should be worn when handling insulation. Please refer to Health & Safety data sheets on our website.

The boards are wrapped in polythene packs and each pack is labelled with details of grade/type, size and number of pieces per pack.

DURABILITY

Xtratherm products are stable, rot proof and will remain effective for the life span of the building, dependent on specification and installation. Care should be taken to avoid contact with acids, petrol, alkalis and mineral oil, when contact is made, clean materials in a safe manner before installation.

ACDs must be followed to ensure that installation is in accordance with current Building Regulations and accounted for in the energy calculation.



Xtratherm[®]



Contact your local Roofbase sales team

We're here to help

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DO YOU NEED ADVICE OR A QUOTATION FOR YOUR ROOFING PROJECT?