

PROCESSING GUIDELINES FOR IKO ENERTHERM PITCH APPLICATION (INSULATION BOARD BETWEEN RAFTERS IN AN UNVENTILATED PITCHED ROOF)

Storage

The insulation boards should be stored in such a way as to prevent damage. The boards also need to be protected from the weather.

Application

IKO enertherm PITCH

Installation procedure

Prior to installation, ensure the roof is dry, sound and free from contaminants.

If installing the IKO enertherm insulation from the outside, use timber stop battens to place the IKO enertherm insulation correctly.

- Measure the exact distance between the rafters to allow for variances to achieve tightly fitted IKO enertherm insulation boards.
- Cut the IKO enertherm insulation boards to the required measurements
- If installing the IKO enertherm insulation from the inside, push the cut insulation up between the rafters to fit tightly, sitting flush with the bottom of the rafter.
- Ensure a minimum 25mm air gap is retained above the IKO enertherm insulation board and below the breathable membrane. This is easily achieved with a timber stop batten installed inside the rafter.
- Fill any small gaps with PU foam for improved thermal performance.
- A Vapour Control Layer (VCL) should be installed under the rafters (a polythene sheet is recommended under the IKO enertherm insulation in areas of potential high humidity i.e. bathrooms or kitchens).
- For internal finishing, install plasterboard over the VCL using drywall screws penetrating 25mm into the timber.
- Where very low U-values are required, it may be practical to add a second layer of IKO enertherm insulation board or IKO enertherm insulated GYPSUM (insulated plasterboard) under the rafters in addition to between.



IKO ENERTHERM ALU INSULATION BOARD BETWEEN AND UNDER RAFTERS IN A PITCHED ROOF (VENTILATED)

Installation guidelines

- Ensure a minimum 50mm air gap is retained above the IKO enertherm insulation board and below the membrane (IKO Rubbershield)/sarking felt. This is easily achieved with a timber stop batten installed inside the rafter.
- Measure the exact distance between rafters to allow for variances and achieve tightly fitted IKO enertherm boards.
- Cut the IKO enertherm insulation boards to required measurements
- Push the cut IKO enertherm insulation up between the rafters to fit tightly, sitting flush with the bottom of the rafter.
- Fill any small gaps with PU foam for improved thermal performance.
- Install IKO enertherm GYPSUM (insulated plasterboard) closely butted to insulate under the rafters and achieve a plasterboard finish in one application (VCL not required when using this method).
- Alternatively, a secondary thinner layer of tightly butted IKO enertherm insulation can be installed to the underside of the rafters.
- Ensure IKO enertherm insulation boards are supported by fixings to the underside of the rafters, with long board edges running across the rafters.
- Apply foil tape at board joints to create a Vapour Control Layer (VCL) and finish with 12.5mm plasterboard using drywall screws at 200mm centres.

IKO ENERTHERM ALU INSULATION BOARD BETWEEN AND UNDER RAFTERS PITCHED ROOF (UNVENTILATED)

Installation guidelines

- PARTIAL FILL: Install a timber batten inside the rafter to provide a stop for the IKO enertherm insulation.
- FULL FILL: Install the IKO enertherm insulation board to match the thickness of the rafter.
- Measure the exact distance between rafters to allow for variances and achieve tightly fitted IKO enertherm insulation boards.
- Cut the IKO enertherm insulation boards to required measurements
- Push the cut IKO enertherm insulation up between the rafters to fit tightly, sitting flush with the bottom of the rafter.
- If installing the IKO enertherm insulation from the outside, use timber stop battens to place the insulation correctly, flush with underside of the rafter.
- Fill any small gaps with PU foam for improved thermal performance.
- Install IKO enertherm GYPSUM (insulated plasterboard) closely butted to insulate under the rafters and achieve a plasterboard finish in one application, Vapour Control Layer (VCL) not required when using this method.
- Alternatively, a secondary thinner layer of lightly butted IKO enertherm insulation can be installed to the underside of the rafters. Ensure insulation boards are supported by fixings to the underside of the rafters, with long board edges running across the rafters.
- Apply foil tape at board joints to create a VCL and finish with 12.5mm plasterboard using drywall screws at 200mm centres.
- Install the breather membrane (IKO Rubbershield) above the rafters in accordance with manufacturer's instructions.
- For partial fill between rafters, fix timber battens to rafters and allow the membrane to sag. For full fill between, fix counter battens over the membrane.

IKO ENERTHERM ALU INSULATION BOARD OVER RAFTERS IN A PITCHED ROOF

Installation guidelines

- Install a treated timber batten (stop rail) of equal thickness to the IKO enertherm insulation at the eaves on top of the rafters.
- Place IKO enertherm insulation boards over rafters and butted to the stop rail. Long board edges should run across the rafters.
- Ensure IKO enertherm insulation boards are staggered with lightly butted edges that are supported by rafters. If required, cut the insulation boards to required measurements.
- Fix the IKO enertherm insulation boards by use of a counter batten (minimum 38 x 38mm) placed above the insulation down the line of each rafter.
- Use headed nails to fix through the vertical batten and insulation into the rafter below.
- Install the breather membrane (IKO Rubbershield) in accordance with the manufacturer's instructions.
- Fix tile battens over the counter battens at appropriate spacing to suit tile or slate lath fixings.
- A Vapour Control Layer (VCL) or plasterboard should be installed to the underside of the rafters.
- Where very low U-values are required, it may be practical to add a layer of IKO enertherm insulation boards between the rafters in addition to over.

IKO ENERTHERM ALU INSULATION BOARD BETWEEN AND OVER RAFTERS IN A PITCHED ROOF

Installation guidelines

- Measure the exact distance between rafters to allow for variances and achieve tightly fitted IKO enertherm insulation boards.
- Cut the IKO enertherm insulation boards to required measurements.
- If installing between rafter from the outside, use timber battens to position the IKO enertherm insulation flush with top of the rafter.
- If installing the between rafters from the inside, install the over layer IKO enertherm insulation first and push the insulation board up between the rafters to fit tightly and flush with the top of the rafter to meet the over insulation layer.
- Install timber battens to the inside of the rafter to hold the rafter insulation in place.
- To install the over rafter IKO enertherm insulation layer, install a treated timber batten (stop rail) of equal thickness to the insulation at the eaves on top of the rafters.
- Place IKO enertherm insulation boards over rafters and butted to the stop rail. Long board edges should run across the rafters.
- Ensure IKO enertherm insulation boards are staggered with lightly butted edges that are supported by rafters.
- Fix the IKO enertherm insulation boards by use of a counter batten (minimum 38 x 38mm) placed above the insulation down the line of each rafter.
- Use headed nails through the vertical batten and IKO enertherm insulation into the rafter below.
- Install the breather membrane (IKO Rubbershield) in accordance with the manufacturer's instructions.
- Fix tile battens over the counter battens at appropriate spacing to suit tile or slate lath fixings.
- A Vapour Control Layer (VCL) or plasterboard should be installed to the underside of the rafters.

SITE WORKING PRACTICE

At the completion of each day's work, or whenever work is interrupted for extended periods of time, board edges and joints should be protected from inclement weather.

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