

# IKO enertherm MW Multi-Fix

Non-combustible flat roofing  
thermal insulation

## Product description

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IKO enertherm MW Multi-Fix is a dual density stone wool insulation board.

## Applications

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IKO enertherm MW Multi-Fix is used for the thermal insulation in a variety of warm flat roofing system applications where a non-combustible and/or acoustic insulation solution is required.

## Environmental

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Made from naturally occurring resource, stone wool insulation saves energy in use and functions using trapped air to provide its thermal properties.

It provides zero Ozone Depletion Potential (ODP) and zero Global Warming Potential (GWP). Stone wool is 97% recyclable.

## Fire Performance

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Achieving a European Reaction to Fire Classification of A1, IKO enertherm MW Multi-Fix roofing boards offer a high level of fire protection and are classified as non-combustible in accordance with UK Building Regulations.

## Handling and Storage

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IKO enertherm MW Multi-Fix is easy to handle and install; the boards should be cut to size using a fine toothed saw. IKO enertherm MW Multi-Fix is supplied on pallets, labelled with identifying product and manufacturing data and wrapped in a polythene shroud for temporary protection during transit.

The product must be protected from prolonged exposure to sunlight, and should be stored under cover or protected with opaque polythene sheeting. Where possible, packs should be stored inside. If stored outside, the product should be stacked flat, and raised above ground level and not in contact with ground moisture.

Only install an area that can be effectively weatherproofed within the same work day. Boards must be kept dry at all time during the installation process. Damaged and defective boards must not be used.

Avoid volatile compounds and chemicals such as solvents.

## Installation

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IKO enertherm MW Multi-Fix is suitable with a wide range of roofing solutions

- IKO Torch Applied, Adhered or Heat Activated Bituminous membrane systems
- Polymeric Adhered or Mechanically Fastened Systems
- Polimar Liquid Waterproofing
- IKO Mastic Asphalt roofing



## Benefits

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- Fleece faced board is compatible with multiple roofing systems
- Low thermal conductivity
- Easy to install
- Excellent Fire Performance
- Excellent Acoustic properties
- Available as a tapered insulation solution

## Thermal performance

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IKO enertherm MW Multi-Fix board has a thermal conductivity of 0.039 W/mK.

IKO enertherm MW Multi-Fix should be installed in accordance with the relevant IKO system specification and can be adhered using IKOpro High Performance PU adhesive or IKOpro Sprayfast IBA adhesive, or mechanically fastened using IKOfix thermally broken tube washers and fixings.

#### **Preparation work for refurbishment works**

- Check that the existing roof finish is sound and watertight
- Check that the type and condition of the surface is suitable for bonding or mechanical fixing of IKO enertherm MW Multi-Fix roofing boards. If the roof is not sound and watertight or does not have a suitable surface, remove all previously applied finishes and if necessary, insulation layers.
- It is recommended that the specifier/contractor checks the existing levels to ensure that the falls are sufficient.

#### **Laying and cutting enertherm MW Multi-Fix**

- For dual layer systems, the 150mm enertherm MW Multi-Fix base board is applied first, onto the air & vapour control layer. The Multi-Fix fleece top layer is applied to the base board with the fleece facing upwards
- The IKO enertherm MW Multi-Fix boards should be laid with staggered joints and tightly butted to avoid gaps
- Ensure that the fleece layer is used on the upper side towards the membrane.
- The boards are easy to cut to shape using a fine toothed saw or panel saw
- Care should be taken to clean off all surfaces prior to the laying of the boards and membrane
- Appropriate stop battens should be installed to protect the boards' open edges during installation
- Day joints must be formed at the conclusion of each section of work to seal exposed edges and prevent damage.
- When installed in mastic asphalt roofing systems, boards should be set back from all abutments to allow for a solid mastic asphalt support plug to be formed. The width of the support plug should be at least 25mm.

#### **Protection of IKO enertherm MW Multi-Fix board during installation**

Adequate temporary protection must be provided above the installed boards where any of the following occur:

- Unloading or access points
- Temporary walkways
- Stockpiles of roofing materials
- Waste skips
- Any other activity that might cause damage to the insulation

#### **Working platform**

Under no circumstances should the finished roof be used as a working platform without adequate protection being provided.

### **Design Considerations**

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The roof construction and design should comply with BS 6229: Flat Roofs with continuously supported flexible waterproofing coverings – Code of Practice

#### **Design considerations for profiled metal decks**

##### **Crown and trough position**

IKO enertherm MW Multi-Fix roofing boards must be laid with the long edge at right angles to the profiles of the metal deck. Butt joints should occur at the mid-crown position, except where cantilevering is applicable.

##### **Free spanning capability**

For free spanning, the minimum board thickness is equal to the maximum trough width divided by 3. The maximum trough width suitable for free spanning IKO enertherm MW Multi-Fix is 300mm.

Where installed trough widths exceed the maximum spanning capability of the board, provision must be made to provide full support for the insulation.

### Cantilevering

- Boards of 60mm or greater thickness may Cantilever over a trough
- For cantilevering, the minimum board thickness is equal to the maximum trough width divided by 2.

### Walkways and access areas

It is an industry recommendation that a supporting layer be placed on the roof both during installation and upon completion in designated walkways or in areas of high foot traffic. Advice should be sought from IKO Technical Services about available options.

### Additional roof loads: Plant and machinery

- Wherever possible, any roof-mounted plant, such as air handling or refrigeration units, should be positioned on independent upstands bearing directly onto the substrate
- Where this is not possible, and the equipment is to be placed directly onto the finished roof, further protection may be required to spread the load on the Multi-Fix roofing boards. In such cases advice should be sought from the IKO Technical Services.

## IKO enertherm MW Multi-Fix Board Range

IKO enertherm MW Multi-Fix board (plain)	
Application	Primary base layer for all systems
Board size	1200mm x 1000mm
Standard thickness	150mm
IKO enertherm MW Multi-Fix fleece faced	
Application	Torch-applied, pour and roll bitumen, single ply and EPDM mechanical or adhered systems, liquid applied systems and green roof
Board size	1200mm x 1000mm
Standard thickness	60, 85, 105, 115, 150, 170, 185mm
IKO enertherm MW Multi-Fix tapered roofing system	
Application	All
Board size	1200mm x 1000mm
Standard thickness	Individually designed to meet scheme requirements
Available falls	1:40, 1:60 and 1:80

## IKO enertherm MW Multi-Fix Acoustic Flat Roof System Ancillaries

IKO Acoustic Membrane 5kg	
Application	High specification lightweight roofing systems
Board size	1220mm x 6000mm
Standard thickness	2.5mm
IKO Acoustic Membrane 10kg	
Application	High specification lightweight roofing systems
Board size	1200mm x 4050mm
Standard thickness	5mm
IKO Acoustic Infill Sound Absorbers	
Application	Perforated metal decks
Board size	1200mm length shaped to suit all deck types

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