

IKO MW RS Insulation

Technical Data Sheet – Section 13.30

PRODUCT INFORMATION

IKO MW RS Insulation is a rock mineral wool slab, designed for use in flat roof build-ups onto all types of roof deck using all types of mechanically-fixed membranes.

The product is non-combustible with the best possible Euroclass A1 reaction to fire classification.



FEATURES & BENEFITS

- Euroclass A1 Reaction to Fire classification.
- Compatible with a wide range of mechanically-fixed single-ply membranes.
- Manufactured from mineral wool which provides higher levels of sound absorption and reduction than other mainstream insulants to reduce the drumming effects of rainfall.

SIZES

IKO MW RS Boards	Thickness	Thermal Resistance (m ² K/W)	Board Size	Product Code
IKO MW RS 60	60mm	1.50	1200 x1000mm	30560060
IKO MW RS 80	80mm	2.05		30560080
IKO MW RS 100	100mm	2.55		30560100
IKO MW RS 105	105mm	2.65		30560105
IKO MW RS 120	120mm	3.05		30560120
IKO MW RS 145	145mm	3.70		30560145
IKO MW RS 160	160mm	4.10		30560160
IKO MW RS 180	180mm	4.60		30560180

PERFORMANCE

Thermal Conductivity:	0.039 W/mK
Fire Classification:	Euroclass A1
Compressive Strength:	70 kPa
Accuracy Class:	T5
Vapour Resistivity:	5.00MNs/g.m
Point Load:	700N

APPLICATION

IKO MW RS Insulation should be installed in accordance with the relevant IKO system specification and mechanically fastened using IKOfix thermally broken tube washers and fixings.

Preparation work for refurbishment works

- Check that the substrate is sound, clean and dry and watertight
- Check that the type and condition of the surface is suitable for bonding or mechanical fixing of IKO MW RS Insulation boards. If the roof is not sound and watertight or does not have a suitable surface, remove all previously applied finishes.
- It is recommended that the specifier/contractor checks the existing levels to ensure that the falls are sufficient.

Laying and cutting IKO MW RS Insulation

- For multi-layer systems, IKO MW RS (of specified thickness) is applied first as a base board, onto the air & vapour control layer.
- IKO MW RS Insulation boards should be laid with staggered joints and tightly butted to avoid gaps.
- 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 waterproofing system.
- Appropriate insulation stop battens or metal hard edges 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.

Protection of IKO MW RS Insulation boards 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

The roof construction and design should comply with BS 6229:2025: Flat Roofs with continuously supported flexible waterproofing coverings – Code of Practice

Design considerations for profiled metal decks

Crown and trough position

IKO MW RS Insulation 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 MW RS Insulation 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 IKO MW RS Insulation roofing boards. In such cases advice should be sought from the IKO Technical Services.

ACCREDITATIONS

IKO MW RS Insulation is for use as a thermal insulation layer on limited access flat roofs with concrete, timber or metal decks in new or existing domestic and non-domestic buildings. It is for use in conjunction with an air and vapour control layer (AVCL) and a mechanically-fixed waterproofing system. IKO MW RS Insulations are fit for intended use and will have a life equivalent to that of the roof structure in which it is incorporated, provided that they are stored and installed correctly.

IKO MW RS Insulation has a compressive strength of 70 kPa in line with SPRA's Component Quality Standard 04 - Stone Mineral Wool Insulation Boards for Flat Roofing.

IKO MW RS Insulation has a product declaration made in conformity with the requirements of BS EN 13162 and is manufactured in accordance with ISO 50001 Energy Management Systems, ISO 14001 Environmental Management Systems, ISO 45001 Occupational Health and Safety Management Systems and ISO 9001 Quality Management Systems.

IKO MW RS Insulation is made of non-classified fibres and certified by EUCEB. EUCEB (European Certification Board of Mineral Wool Products - www.euceb.org) is a voluntary initiative by the mineral wool industry. It is an independent certification authority that guarantees that products are made of fibres, which comply with the exoneration criteria for carcinogenicity (Note Q) of the Regulation (EC) 1272/2008.

SYSTEM TESTING

IKO maintains declared product characteristics and qualities which are defined in detail in its Declaration of Performances (DoPs) and product literature. The product literature also includes information relating to IKOs requirements and recommendations for installation of its Insulation products when being used as part of a system.

Any party using, or planning to use, our products in a system (with or without system testing) where performance may be dependent on product characteristics not declared on our DoPs or our product literature, must contact our Technical Service Team.

IKO will not accept liability for any failure in system performance due to product characteristics not declared on DoPs or product literature or not agreed in a Service Level Agreement. In such an event, any warranty given in relation to those products will be invalidated.

SUSTAINABILITY

IKO MW RS Insulation is rock mineral wool manufactured using around 35% recycled content (recycled material mostly from the steel industry along with customer production waste).

IKO MW RS Insulation contains no ozone-depleting substances or greenhouse gases. The overall environmental performance of our products is reported in their EPDs (Environmental Product Declarations) which are available on our website. EPDs are available for all our products in accordance with IS 14025, ISO 21930 and EN 15804+A2.

The pallets the products sit on are wrapped in low-density polyethylene (LDPE4) plastic, which is made of 30-50% (depending on the supplier) recycled plastic content and is fully recyclable.

HANDING AND STORAGE

IKO MW RS Insulation boards are easy to handle and install, and easily cut to size with a fine-toothed saw, where necessary. They are supplied in polythene packs which are designed for short term protection only. For longer term protection on site, the product should either be stored indoors, or under cover and off the ground.

IKO MW RS Insulation boards should not be left exposed to the elements. 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.

DURABILITY

IKO MW RS Insulation boards are odourless, rot proof, non-hygroscopic, do not sustain vermin and will not encourage the growth of fungi, mould or bacteria. The product will have a life equivalent to that of the roof structure in which it is incorporated.

OTHER RELEVANT DOCUMENTATION

Where applicable, Material Safety Data Sheets (MSDS), Declaration of Performances (DoPs), and Third-Party Accreditations are available to view and download from the IKO website Resource Centre:

<https://ikogroup.co.uk/resource-centre/>

PRODUCT SUPPORT

Should you have any queries in relation to this product please contact one of the relevant teams below:

Technical	technical.ab@iko.com - For Reinforced Bitumen Membranes, IKOpro and Flexia Liquid Applied Waterproofing, Pitched Roofing, IKO Hyload Structural Waterproofing
	technical.ma@iko.com - For Mastic Asphalt
	technical.cc@iko.com - For Single Ply and Permatec Hot Melt
Sales	sales.uk@iko.com
Marketing	getintouch.uk@iko.com

COMPANY ACCREDITATIONS

IKO PLC, a roofing, waterproofing, and insulation company, holds various accreditations that demonstrate its commitment to quality, safety, and environmental responsibility. These include ISO certifications for quality management and occupational health and safety, British Board of Agrément (BBA) accreditations for specific products and systems, and Factory Mutual (FM) approval for certain roofing systems.

All our manufacturing plants have BS EN ISO 9001, BS EN ISO 14001, BS EN ISO 45001, and BES 6001 accreditation, meaning we match the quality and sustainability requirements and use responsibly sourced raw materials in our production. We also re-use by-products from manufacture, wrap products in minimal packaging, and we employ a streamlined transportation network.



IKO is also a leading member of all relevant trade associations such as NFRC, BFRA, SPRA, LRWA, MAC, RSTA, BJA and LCRIG having technical experts within the technical and standards committees to help us get informed first-hand about recent updates on technical requirements for the design and installation of roofing, waterproofing, road and bridge maintenance industry products.



DISCLAIMER

Whilst every precaution is taken to ensure that the information given in this literature is correct and up-to-date it is not intended to form part of any contract or give rise to any collateral liability, which is hereby specifically excluded.

IKO reserves the right to amend and/or withdraw this document without notice.

Intending purchasers of our materials should therefore verify with the company whether any changes in our specification, application details, withdrawals or otherwise have taken place since this literature was published.