

TECHNICAL DATA SHEET

CLADWOOL RS-M AND RS-MV FAÇADE MINERAL WOOL INSULATION



This data sheet provides information on the technical and thermal properties of Cladwool RS-M and Cladwool RS-MV

Material Composition	A resin boned stone wool insulation.
Properties	A highly breathable façade mineral wool insulation with excellent fire, acoustic and thermal properties.
Variations of product	Cladwool RS-M is a mineral wool slab with no additional facing. Cladwool RS-MV is a mineral wool with black fibreglass cover to the external face of the slab. A white facing cloth is also available.
Applications	This product is primarily used behind rainscreen cladding applications, however can be used both internally or in ceiling applications as well. Structures include Timber and LFS frame as well as masonry buildings .

Dimensions, Thermal Resistance and Packing – Example Standard Sizes

	Thickness	Thermal Resistance R m²K/W	Pieces per pack	Packs per pallet	Surface area m2 per pallet
Standard board size					
Length 1200mm	50mm	1.428	6	16	69.12
Width 600mm	80mm	2.286	5	12	43.20
	100mm	2.857	3	16	34.56
Other format sizes are available quantity dependant.	120mm	3.428	2	20	28.80
	150mm	4.286	2	16	23.04
	180mm	5.143	2	12	17.28
	200mm	5.714	2	12	17.28

Technical Information	Value
Thermal conductivity coefficient	≤ 0.035 W/mK
Class for thickness tolerance T	T5 (-1mm/+3mm) or (-1%/+3mm)
Dimensional Stability under 70°C and 90% Humidity	≤1.0 %
Compressive Stress at 10% deformation CS(10)	0.5 kPa
Water vapour transmission MU	MU1
Reaction to fire BS EN 13501-1:2018	A1 Non Combustible
Standard thicknesses	20mm – 200mm in 10mm increments
Standard slab size	1200mm x 600mm
Non standard slab sizes	1000mm x 600mm / 1200mm x 2000mm
Certification & Warranty	
CE Marked	Yes
CE Certificate No	1454-CPR-0339
Limitations of Use	
<p>Cladwool M and MV can be used below and above 18 meters without restrictions from a fire perspective. Fixing patterns should be determined on a project by project basis, however Benx are able to provide typical fixing patterns.</p>	
Storage / Installation / Fixing	
<p>Storage: Cladwool RS slabs are supplied in distinctive Cladwool shrink-wrapped polythene pack, typically on pallets. Pallets are delivered with a water protective hood to allow storage outside for reasonable periods of time. For extended period of outside storage, consideration should be given to additional protection to keep the product in good order.</p> <p>Fitting: Cladwool RS slabs can be easily cut with a sharp knife or hand saw.</p> <p>Slabs should be tightly butt jointed both horizontally and vertically to achieve the optimum fire, thermal and acoustic performance. The slab joints should be staggered to assist in achieving this.</p> <p>The slabs should be cut neatly and tightly around any penetrations such as support frame, cavity barriers and other interfaces to achieve maximum performance.</p> <p>An appropriate breather membrane (if required, project dependant) can either be fitted behind the insulation to a suitable sheathing board, such as RCM Y-wall, Multipurpose or Densglass or to the face of the Cladwool RS if third party required such as NHBC.</p> <p>Cladwool RS contains water repellent additives as part of the manufacturing process, however as with most mineral wool insulants in this application, best practise is to sequence works so the insulation is not left exposed for any extended periods of time. For further information on this is available in request.</p>	

Fixings

Framed Structures onto sheathing board

The typical fixing arrangement into Benx Y-wall or Multipurpose sheathing board is 3 no fixings per/m² using our WX58T screw fixing within a 60 KC insulation washer, plus a KWL 90 insulation retaining plate. In addition, 1 no appropriate metal fixing and should be fixed through the centre of each slab. Benx recommend our WX58T screw in conjunction with our POK 070 washer for this application. Other fixing may also be used which have been appropriately assessed for this application.

Please contact Benx Technical department for further information on fixing to our Densglass or other Gypsum based sheathing boards.

Masonry Structure

For fixing Cladwool RS back to masonry structures, a typical fixing pattern is 3 fixing m². For insulation thickness up to and including 180mm, Benx recommend using our KI 10 in conjunction with our KWL 90 insulation retaining plate.

For insulations above 180mm, we recommend our TFIX 8S screw fixing with a KWL 90 plate. The 1 no additional fire fixing we recommend the use Benx MBA-SS-08 hammer fixing with a MKC-SS-85 washer.

PLEASE NOTE: Fixing patterns can change depending on specific height and anticipated wind loading requirements, so it is recommended that this is assessed as part of the project review prior to any installation. Benx Technical services can assist in this process.

Disclaimer of Liability

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