

# Technical Information

## Permarock Mineral Fibre DD Insulation



### Product Description

#### Field of Application:

Permarock Mineral Fibre DD (Dual Density) Insulation boards are non-combustible thermal insulation boards used as the insulation layer within Permarock Mineral Fibre external wall insulation systems - thermal insulation systems for application to the external walls of new or existing low-rise or high-rise buildings of brickwork, blockwork, dense or no-fines concrete, timber frame or steel frame construction in the residential and non-residential sectors.

#### Standards & Approvals

Permarock Mineral Fibre DD Insulation boards are manufactured and supplied in accordance with BS EN 13162: 2012 under a Quality Management System which complies with the requirements of BS EN ISO 9001: 2008 (Quality management systems: Requirements) and BSEN ISO 14001: 2004 (Environmental Management Systems: Requirements).

Permarock Mineral Fibre External Wall Insulation Systems carry full accreditation in accordance with our KIWA BDA Agrément certificate.

#### Biological:

Permarock Mineral Fibre DD Insulation offers no sustenance to vermin and does not encourage the growth of fungi, moulds or bacteria.

#### Advantages:

- Non-combustible - Class A1 (BS EN 13501-1)
- Dimensionally stable
- Stable thermal performance using entrapped air - will not deteriorate
- Superior acoustic performance compared with rigid foam insulants
- Low embodied energy
- High water vapour permeability - allows walls to 'breathe'

#### Environmental:

Zero ozone depletion potential (zODP) and zero Global Warming Potential (GWP).

#### Handling & Storage:

Permarock Mineral Fibre DD Insulation is supplied in packs or pallets. Insulation boards should be storey indoors or under a waterproof covering. Boards should be handled with care.

Technical Data:	
Fire Behaviour:	A1
Standard dimensions (mm):	1200 x 600
Standard thicknesses (mm):	50 - 250 in 10mm increments
Thermal conductivity:	0.036 W/mK
Reaction to fire:	A2-s1,d0 (EN 13501-1) <i>*dependent on finish used</i>
Tensile strength:	TR10 (BS EN 13162:2012 + A1:2015)
Colour:	Yellow-green

# Application

## Cutting:

1. Mark position of the desired cut accurately on the board face
2. Use an insulation cutting saw or knife to carefully cut along the marked line through the full thickness of the insulation.
3. Ensure accurate trimming to achieve close joints and continuity of insulation when installed.

## Adhesive Bonding:

Permarock Mineral Fibre DD Insulation has high-density outer face (to receive the render system) and a lower density backing.

Permarock Adhesive should be applied to the back face (lower density) to enable bonding to brickwork, blockwork and dense or no-fines concrete and other uneven surfaces. The lower density material will accommodate slight imperfections in the surface of the building fabric.

For bonding to smooth mineral substrates, such as cementbonded particle boards or cellulose fibre reinforced cement boards, use Permarock Lamella Adhesive. Do not use solvent-based adhesives.

Refer to Permarock's installation instructions for guidance on the application of adhesives and renders.

Note: In addition to adhesive bonding boards must also be mechanically fixed.

## Mechanical Fixing:

In addition to adhesive bonding, Permarock Mineral Fibre DD Insulation boards should also be mechanically fixed using suitable Permarock approved insulation anchors.

For attachment to sheathing boards over steel frame or timber frame constructions, the use of

Polypropylene tube washers with corrosion-resistant coated or stainless steel screws is recommended.

For attachment to solid substrates, including brickwork, blockwork, dense and no-fines concrete, etc., plastic insulation anchors, as defined in ETAG014, should be used. The length of the fixing should be appropriate to the insulation thickness, adhesive layer thickness, the thickness of any existing render layers on the substrate, and the required anchorage depth into the load-bearing substrate.

When selecting the fixing type, consideration should be given both to the pull-out resistance of the fixing in the substrate and the pull-through strength of the insulation/ fixing combination. Providing additional fixings through the reinforcement layer of the render system will assist in achieving a higher level of resistance to pull-through / pullover.

## Services & Ancillaries:

Whenever attaching external services or ancillaries to the wall retrospectively (i.e. after insulating and rendering) the fixings must be adequate to support the attachment while penetrating through the insulation into the load-bearing wall structure behind. Direct loads should not be carried by the insulation or render materials. Wherever possible, through fixings should be thermally broken to reduce point heat-losses.

## Advice

### Further details:

See material safety data sheet

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