STONE WOOL DD

Thermally insulating Stone Wool Dual Density slab for receiving Dryvit base coats and finishes

PRODUCT DESCRIPTION

Dryvit Stone Wool DD is manufactured from volcanic basalt rock that is heated to high temperature until molten and spun into a dense fiberous mat with a high density top surface. It is available as a Dryvit Square Edge Slab which provides excellent insulating performance when used with the Roxsulation Pro External Wall Insulation (EWI) System.

PROPERTIES

- Density (average)   110 kg/m³
- Thermal Conductivity   0.036 W/mK
- Fire   Euroclass A1 - non-combbustible
- Tensile strength perpendicular to faces   10 kPa
- Minimum strength a 10% compression   10 kPa

FEATURES & BENEFITS

FEATURE	BENEFIT
Acoustic performance	Reduced sound transmission
Thermally efficient	Good insulating properties
Evironmentally friendly	Low environmental impact over whole product life cycle
Non combustible	Fire resistant

USES

Dryvit Stone Wool DD is used for adding insulation to the external walls of new construction and refurbishment projects when used as an integral part of the Roxsulation Pro External Wall Insulation (EWI) System.

PACKAGING

Dryvit Stone Wool DD insulation thickness from 50 mm to 250 mm.

Boards supplied in 10 mm increments. For pack size or thickness outside standard sizes can be please contact Dryvit for information.

COVERAGE

Dryvit Stone Wool DD 1200 x 600 mm slabs with an area of 0.72 m² (1.34 slabs/m²)

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TYPICAL SUBSTRATES

- Concrete
- Brick
- Lightweight Block or aerated autoclaved concrete
- Lightweight steel structures using appropriate sheathing boards.
- Sheathing boards - confirm compatibility with Dryvit UK Ltd

INSTALLATION

Roxsulation Pro
Dryvit Stone Wool DD is directly fixed to the substrate typically using a combination of adhesive and mechanical fixing. The method of fixing will depend on the condition of the substrate and anticipated wind loads. Details of the number of fixings, fixing pattern and method of fixing shall be confirmed with Dryvit UK Ltd.

Adhesive fix - The specified Dryvit adhesive is applied to the back of the insulation board, not to the substrate. The ribbon and dab method is usually used for fixing insulation to solid substrates with a ribbon around the entire perimeter and eight dabs placed on the interior area of the insulation board. The notched trowel method is usually used for fixing insulation to sheathing board and flat substrates and is created using a notched trowel to form adhesive beads running vertically when the insulation board is placed on the wall.

Mechanical fixing - Only mechanical fixings recommended by Dryvit UK Ltd are acceptable for securing the insulation board to the substrate. Mechanical fasteners can be installed under the mesh with or without supplementary adhesive, or through the mesh with supplementary adhesive. The method of fixing, number of fixing and the fixing pattern to meet the anticipated wind load shall be agreed with Dryvit UK Ltd. Refer to Roxsulation Pro Application Instructions and Details for further information.

Mesh Embedment in base coat - Common to all systems - prior to starting reinforcing mesh embedment, fill any gaps in the board joints with foam or insulation slivers to provide a uniform and smooth surface. All dust and loose material shall be removed prior to base coat application. Using a stainless steel trowel, apply the tight skim of the specified base coat on the entire surface of the insulation board, using an angled notched trowel to add further base coat and immediately place the reinforcing mesh against the wet base coat mixture. Trowel the mesh into the base coat layer starting from the centre and working outwards to the edges avoiding wrinkles, until the mesh is fully embedded and not visible. Allow this layer to take up until firm to the touch and then trowel an additional coat over the first to provide a flat levelling surface and embedding the mesh centrally in the base coat layer. The head of all mechanical fixings should be covered by a minimum 3 mm of base coat.

When installing fixings through the mesh or where high impact Panzer mesh is specified refer to the Roxsulation Pro Application Instructions and Details.

Individual product data sheets and relevant Dryvit System Application Instructions and Standard Details should be referred to for detailed installation instructions.

ENVIRONMENTAL

No CFC's or HCFC's are used in the manufacturing of Stone Wool insulation and the boards do not contain any gases that have an Ozone Depletion Potential (ODP) or Global Warming Potential (GWP). Stone Wool is resistant to rot and is vermin proof.

STORAGE
Ensure that the insulation board is protected from the elements both before and during application. Although Stone Wool insulation boards are supplied in polythene packs, stacked on pallets it provides only temporary protection during transit. When delivered and stored externally on site, the Stone Wool should be stored on pallets and kept under a secure waterproof covering.

CAUTIONS & LIMITATIONS
Once installed, in exposed locations ensure the stone wool is protected from rain and water.

Do not use Dryvit Stone Wool DD for fire barrier construction with the expanded polystyrene systems.

HEALTH AND SAFETY
Refer to Roxsulation Pro Application Instructions and the product Safety Data Sheets.

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