



March 2010

## Earthwool® RainScreen Slab

### For rainscreen cladding applications

#### Description

Earthwool RainScreen Slab is a rock mineral wool slab containing a water repellent additive, specially developed for rainscreen cladding applications.

#### Application

Earthwool RainScreen Slab is used for the thermal insulation of rainscreen cladding systems. Earthwool RainScreen Slab is recommended for this application, as it is lightweight but rigid enough to resist the compression forces generated when fixing the insulation slabs to the masonry substrate. The water repellent additive in Earthwool RainScreen Slab provides a further line of defence against rain penetration of the external cladding.

#### Standards

Earthwool RainScreen Slab is made from non-combustible inorganic rock mineral wool, defined as mineral wool in BS 3533:1981 and is manufactured in accordance with BSI Quality Assurance Standard BS EN ISO 9001:2000 and Product Standard EN 13162.

#### Performance

##### Thermal

Earthwool RainScreen Slab has a thermal conductivity of 0.035W/mK.

##### Fire

Earthwool RainScreen Slab is classified as Euroclass A1 to BS EN ISO 13501-1

#### Benefits

- Lightweight but rigid and robust
- Non-combustible and Euroclass A1
- Designed to adapt to minor imperfections in the building substrate
- Excellent water resistance

## Earthwool® RainScreen Slab

### Durability

Earthwool RainScreen Slab is odourless, rot proof, non-hygroscopic, does not sustain vermin and will not encourage the growth of fungi, mould or bacteria.

### Thermal performance

The U-value of a proprietary rainscreen cladding system is dependent on the degree of thermal bridging in the system. Typically 100mm of Earthwool RainScreen Slab will achieve a U-value of 0.35W/m<sup>2</sup>K, but Knauf Insulation recommend consulting individual rainscreen cladding manufacturers for U-values appropriate for their systems.

### Fire performance

Earthwool RainScreen Slab is classified as Euroclass A1 to BS EN ISO 13501-1, Class 1 Surface Spread of Flame to BS 476:Part 7:1997 and Class 'O' to the Building Regulations.

### Environmental

Earthwool RainScreen Slab is free from CFCs, HCFCs and any other material with ozone depletion potential in its manufacture and content and represents no known threat to the environment. **Earthwool RainScreen Slab's manufacture has a low impact on the environment and is classified as Zero ODP and Zero GWP.**

### Handling and storage

Earthwool RainScreen Slab is easy to handle and install, being lightweight and easily cut to size, where necessary. Earthwool RainScreen Slab is 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. Earthwool RainScreen Slab should not be left permanently exposed to the elements.

Thickness (mm)	Thermal conductivity (W/mK)	Thermal resistance (m <sup>2</sup> K/W)	Length (mm)	Width (mm)	Slabs per pack	Area per pack (m <sup>2</sup> )
150	0.035	4.25	1200	600	3	2.16
120	0.035	3.40	1200	600	4	2.88
100	0.035	2.85	1200	600	5	3.60
75	0.035	2.10	1200	600	6	4.32
50	0.035	1.40	1200	600	10	7.20

*All dimensions are nominal*

Knauf Insulation mineral wool products with ECOSE® Technology benefit from a formaldehyde-free binder made from rapidly renewable bio-based materials instead of petroleum-based chemicals which is up to 70% less energy intensive. The technology has been developed for Knauf Insulation's glass and rock mineral wool products, enhancing their environmental credentials without affecting the thermal, acoustic or fire performance. Insulation products made with ECOSE® Technology contain no dye or artificial colours – the colour is completely natural.

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